

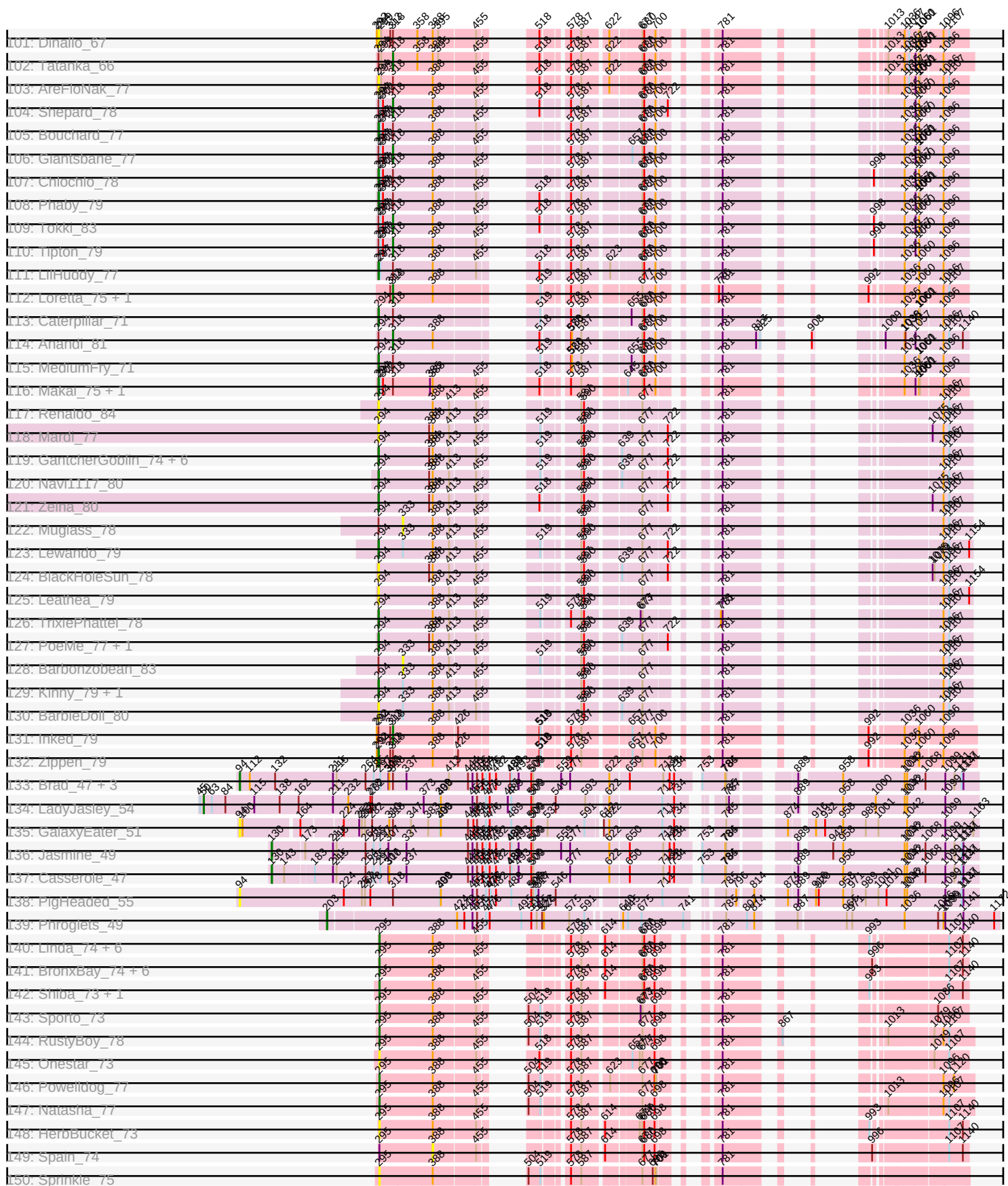
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201: Vinzion_75	69	99	131	161	199	219	312	339	402	462	512	571	595	624	673	756	789	865	901	958	971	1048	1044	1068	1083	1436
202: Zuko_72	111	116	135	168	216	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	1001	1001	1066	1081	1131
203: KimJongPhil_74	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
204: PerroGrande22_112	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
205: Pepy6_052	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
206: Poco6_051	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
207: Reynauld_56	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
208: Sniacconi_51	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
209: Flapper_75	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
210: Dainpop_65	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
211: GTE5_61	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
212: Turuncu_75	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
213: JSRO1_61	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
214: Kuri_72+4	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
215: Oulis_73+1	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
216: Kabiuna_75+1	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
217: Nosiavi_73	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
218: GrootJr_74+1	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
219: Buggaboo_74+1	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
220: Commanaria_72	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
221: NatB6_72	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
222: Wneezy_72	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
223: GTE8_60	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
224: MerCougar_75	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
225: RedRaider_75	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
226: Float294_64	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
227: Ennea_73	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
228: Lompop137_6	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
229: Pato_74	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
230: Skysand_75	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
231: iDyN_69	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
232: HubbaBubba_67	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
233: NadineRae_75	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
234: Indexa_71+6	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
235: WhoseMan2_65+6	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
236: Pemberton_73	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
237: Scuba_83	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
238: Fury_82+1	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
239: HomeFry_79	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
240: Apary_72+1	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
241: Gagien_70	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
242: Maseop_72+2	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
243: MacGully_81	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
244: GMA7_51+3	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
245: GTE7_50	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
246: Dakiti_60+1	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
247: Bonenham_63+2	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
248: RoyalG_59+1	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
249: Linetti_59	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131
250: Barbochs_57+2	116	135	168	184	235	261	291	311	353	410	511	511	571	601	621	641	721	781	881	931	971	991	1001	1066	1081	1131

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251: Ekhein_59 + 4	171	201	240	286	395	416	449	525	588	601	624	665	684	747	776	885	883	927	953	1015	1089	1093
252: Beaver_62	171	201	240	286	395	416	449	525	588	601	624	665	684	747	776	885	883	927	953	1015	1089	1093
253: BillyBobJR_65 + 1	171	201	240	286	395	416	449	525	588	601	624	665	684	747	776	885	883	927	953	1015	1089	1093
254: Diabla_63	171	201	240	286	395	416	449	525	588	601	624	665	684	747	776	885	883	927	953	1015	1089	1093
255: Breezie_59	171	201	240	286	395	416	449	525	588	601	624	665	684	747	776	885	883	927	953	1015	1089	1093
256: GourdRhymes_59	171	201	240	286	395	416	449	525	588	601	624	665	684	747	776	885	883	927	953	1015	1089	1093
257: BigShaq_59	171	201	240	286	395	416	449	525	588	601	624	665	684	747	776	885	883	927	953	1015	1089	1093
258: Misay19_64 + 1	171	201	240	286	395	416	449	525	588	601	624	665	684	747	776	885	883	927	953	1015	1089	1093
259: Worcestershire_59	171	201	240	286	395	416	449	525	588	601	624	665	684	747	776	885	883	927	953	1015	1089	1093
260: Hotorobo_59 + 2	171	201	240	286	395	416	449	525	588	601	624	665	684	747	776	885	883	927	953	1015	1089	1093
261: Squibbles_58	171	201	240	286	395	416	449	525	588	601	624	665	684	747	776	885	883	927	953	1015	1089	1093
262: Jellybones_61	171	201	240	286	395	416	449	525	588	601	624	665	684	747	776	885	883	927	953	1015	1089	1093
263: Sombrero_60	171	201	240	286	395	416	449	525	588	601	624	665	684	747	776	885	883	927	953	1015	1089	1093
264: Crete_60	171	201	240	286	395	416	449	525	588	601	624	665	684	747	776	885	883	927	953	1015	1089	1093
265: PokyPuppy_58	171	201	240	286	395	416	449	525	588	601	624	665	684	747	776	885	883	927	953	1015	1089	1093
266: PierreThree_58	171	201	240	286	395	416	449	525	588	601	624	665	684	747	776	885	883	927	953	1015	1089	1093
267: Kelzog_61	171	201	240	286	395	416	449	525	588	601	624	665	684	747	776	885	883	927	953	1015	1089	1093
268: Eggsie_57	171	201	240	286	395	416	449	525	588	601	624	665	684	747	776	885	883	927	953	1015	1089	1093
269: John316_62	171	201	240	286	395	416	449	525	588	601	624	665	684	747	776	885	883	927	953	1015	1089	1093
270: FelixAlejandro_64	171	201	240	286	395	416	449	525	588	601	624	665	684	747	776	885	883	927	953	1015	1089	1093
271: Adgers_62	171	201	240	286	395	416	449	525	588	601	624	665	684	747	776	885	883	927	953	1015	1089	1093
272: BenoitCatie_59	171	233	291	301	315	383	483	503	588	601	632	665	684	747	794	885	883	927	953	1055	1109	1146
273: Bianmat_57 + 3	171	233	291	301	315	383	483	503	588	601	632	665	684	747	794	885	883	927	953	1055	1109	1146
274: Jormungandr_57 + 5	171	233	291	301	315	383	483	503	588	601	632	665	684	747	794	885	883	927	953	1055	1109	1146
275: Luker_58	171	233	291	301	315	383	483	503	588	601	632	665	684	747	794	885	883	927	953	1055	1109	1146
276: Sticker17_57 + 10	171	233	291	301	315	383	483	503	588	601	632	665	684	747	794	885	883	927	953	1055	1109	1146
277: Woes_57	171	233	291	301	315	383	483	503	588	601	632	665	684	747	794	885	883	927	953	1055	1109	1146
278: Chananelly_57	171	233	291	301	315	383	483	503	588	601	632	665	684	747	794	885	883	927	953	1055	1109	1146
279: Kaseim_57	209	215	301	315	383	483	488	521	588	601	632	665	684	747	794	885	883	927	953	1055	1109	1146
280: Philon9_57	209	215	301	315	383	483	488	521	588	601	632	665	684	747	794	885	883	927	953	1055	1109	1146
281: Niagara_57	209	215	301	315	383	483	488	521	588	601	632	665	684	747	794	885	883	927	953	1055	1109	1146
282: Teech_58	209	215	301	315	383	483	488	521	588	601	632	665	684	747	794	885	883	927	953	1055	1109	1146
283: Teatealatte_58 + 1	209	215	301	315	383	483	488	521	588	601	632	665	684	747	794	885	883	927	953	1055	1109	1146
284: Katyusha_57 + 1	209	215	301	315	383	483	488	521	588	601	632	665	684	747	794	885	883	927	953	1055	1109	1146
285: Demosthenes_55	209	215	301	315	383	483	488	521	588	601	632	665	684	747	794	885	883	927	953	1055	1109	1146
286: Hollow_57	209	215	301	315	383	483	488	521	588	601	632	665	684	747	794	885	883	927	953	1055	1109	1146
287: ASerpRocky_55	209	215	301	315	383	483	488	521	588	601	632	665	684	747	794	885	883	927	953	1055	1109	1146
288: Kvotne_56	209	215	301	315	383	483	488	521	588	601	632	665	684	747	794	885	883	927	953	1055	1109	1146
289: Vitaenoi_57	211	215	301	315	383	483	488	521	588	601	632	665	684	747	794	885	883	927	953	1055	1109	1146
290: Starburst_53 + 2	211	215	301	315	383	483	488	521	588	601	632	665	684	747	794	885	883	927	953	1055	1109	1146
291: RSchmaltz_54 + 1	211	215	301	315	383	483	488	521	588	601	632	665	684	747	794	885	883	927	953	1055	1109	1146
292: MunkgeeRoachy_51	211	215	301	315	383	483	488	521	588	601	632	665	684	747	794	885	883	927	953	1055	1109	1146
293: Dre3_48 + 1	211	215	301	315	383	483	488	521	588	601	632	665	684	747	794	885	883	927	953	1055	1109	1146
294: GTE2_44	211	215	301	315	383	483	488	521	588	601	632	665	684	747	794	885	883	927	953	1055	1109	1146
295: GoldHunter_54 + 5	211	215	301	315	383	483	488	521	588	601	632	665	684	747	794	885	883	927	953	1055	1109	1146
296: Mayweather_61	211	215	301	315	383	483	488	521	588	601	632	665	684	747	794	885	883	927	953	1055	1109	1146
297: BigChungus_56 + 1	211	215	301	315	383	483	488	521	588	601	632	665	684	747	794	885	883	927	953	1055	1109	1146
298: RedBaron_58	211	215	301	315	383	483	488	521	588	601	632	665	684	747	794	885	883	927	953	1055	1109	1146
299: Nibbles_48	211	215	301	315	383	483	488	521	588	601	632	665	684	747	794	885	883	927	953	1055	1109	1146
300: CanesSauce_52 + 5	211	215	301	315	383	483	488	521	588	601	632	665	684	747	794	885	883	927	953	1055	1109	1146

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Pham 310998

851: SuperheroCarly_53	40	46	60	104	121	140	174	193	219	269	337	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
852: Nova_52	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
853: Hawkeye_56	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
854: Frizzle_34	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
855: Sapo_34	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
856: Gnobes_35	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
857: Archimedes_37	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
858: GordMk2_60	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
859: Gmaia1_55	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
860: GordDuk1_59	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
861: GMA3_58	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
862: Jumbo_57	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
863: Camenco_63	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
864: Suzy_49	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
865: BiteSize_50 + 5	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
866: LilyPad_52	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
867: LittleFella_57	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
868: Fortinabitatio_84	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
869: Demure_83	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
870: OigasClover_88	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
871: Artelabail_84 + 1	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
872: Capybara_86 + 7	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
873: FortCran_87 + 3	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
874: Kenosha_85	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
875: Vardy_85	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
876: Arataki_85	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
877: Avazak_87	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
878: Captrips_86	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
879: BlueMoon_85	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
880: Onmyward_81	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
881: CWormy_84	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
882: Draiga_86	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
883: Runhaar_84	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
884: ChickyNuggy_89	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
885: Fazel_87	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
886: Luthien_87	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
887: Perkunas_88 + 2	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
888: Untouchable_88	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
889: AtainaMarie_87	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
890: Figlar_85	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
891: Jodelite19_85	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
892: Zeph_88	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
893: Aloe25_89 + 4	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
894: Blanky_82	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
895: Trullozilus_88	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
896: TenaciousP_87 + 1	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
897: Conley_84	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
898: Burey_85	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
899: Schwartz33_83	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078
900: SnaggyRogers_85	51	91	104	121	140	174	193	219	269	337	381	414	430	512	562	596	652	688	764	788	844	865	939	982	1009	1040	1078

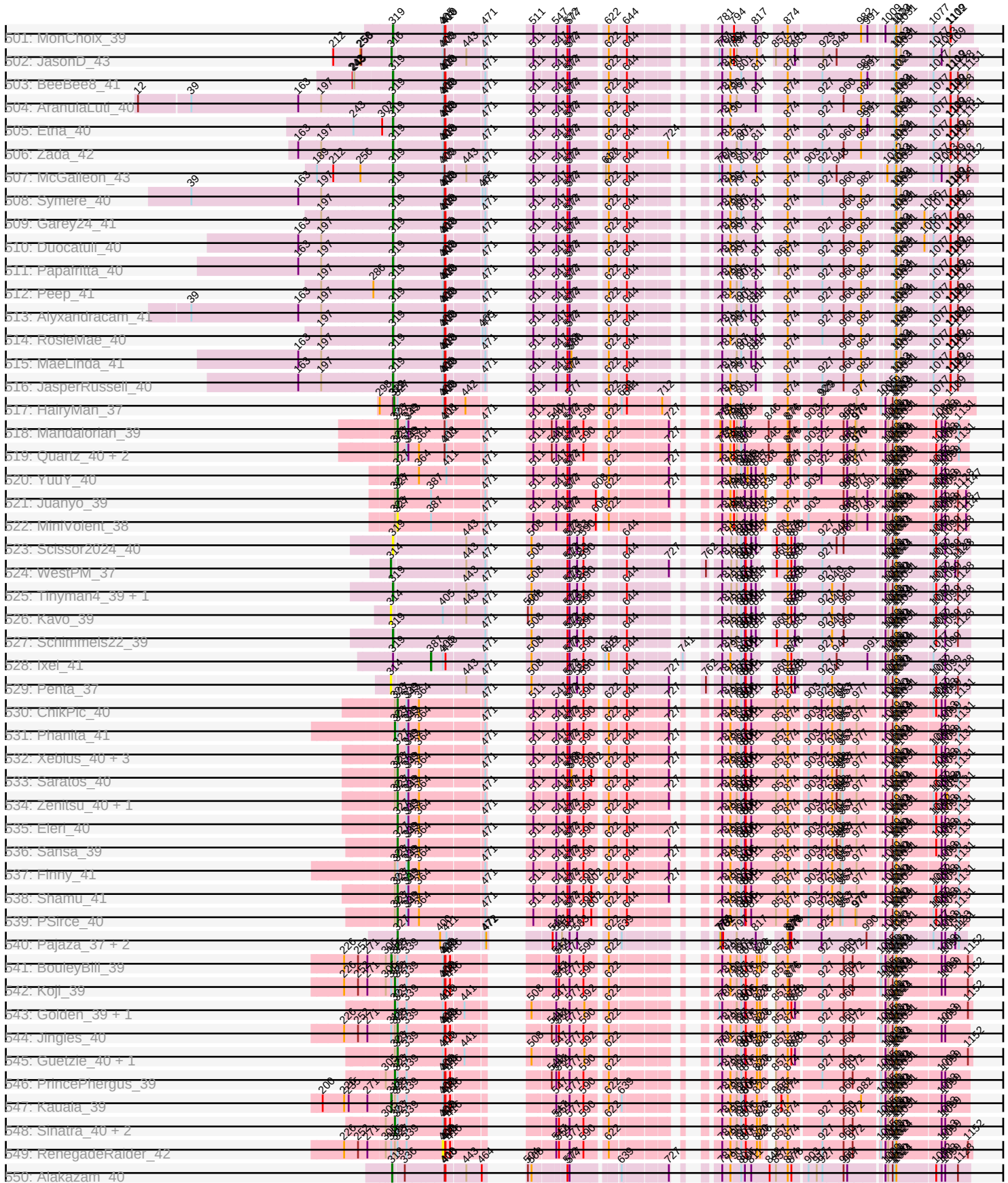
Pham 310998

[illegible]

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#51: Gibbin_62	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#52: GreteLyn_60	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#53: Wojtek_56	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#54: Pywacket_58	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#55: Genamy16_63	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#56: Saddol_61	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#57: LuckyLeo_57	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#58: DumpTruck_58	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#59: Xenia2_58	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#60: Mercedes_36	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#61: HanksSprout_41	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#62: Kale_40	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#63: KellyGreen_42 + 12	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#64: Thorongli_41	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#65: Redfield_40 + 1	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#66: TatarakaPM_41 + 13	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#67: Winzigespinne_40	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#68: Ioannes_41	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#69: BenjaLauren_41 + 11	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#70: KimC_41 + 3	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#71: OXtober96_42 + 13	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#72: Espinosa_40 + 7	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#73: GardenB_40 + 1	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#74: Raccoon_40 + 1	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#75: Blage_41 + 1	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#76: HavenFinLeoSun_42	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#77: CarisSweeMk_43	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#78: Leatus_40	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#79: Endor_41	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#80: GoingMerry_42	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#81: AlexAdier_41 + 4	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#82: Agente005_41	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#83: Bandik_41 + 2	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#84: Phnends_41 + 5	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#85: FarmerDoug_40	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#86: Acosta_42	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#87: TeddyBear_40 + 4	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#88: BeautPeep30_41 + 1	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#89: Thompsone_41	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#90: Balsa_40 + 1	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#91: HartSolo_40	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#92: Ammorac_40	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#93: Sedgewig_40	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#94: Sorori_40 + 2	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#95: Nagem_41 + 1	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#96: PhillyPhantom_40	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#97: Jenos_44	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#98: ShaHoud_41	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#99: SungRay_40	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798
#00: Domraki_41	33	86	89	103	125	153	176	219	269	297	331	387	508	542	571	590	629	652	679	716	798

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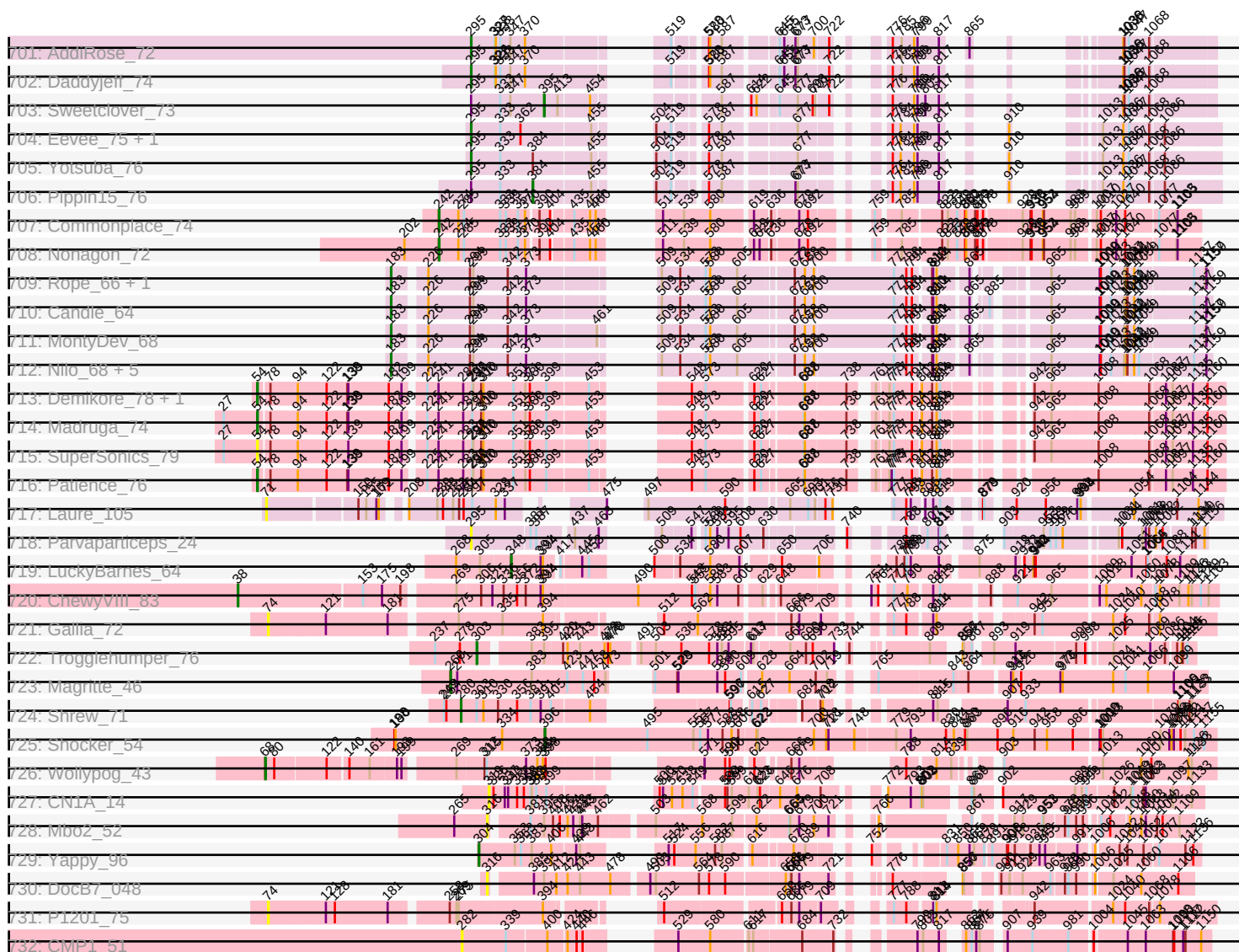
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601: Annapurna_40	17	68	986	122	176	199	229	388	394	442	519	543	684	650	771	798	824	983	1010	1037	1089	1126	1163		
602: Ajin_42	17	30	68	986	122	176	199	229	388	394	442	519	543	684	650	771	798	824	983	1010	1037	1089	1126	1163	
603: Dauntless_39 + 1	30	68	986	122	176	199	229	283	388	394	442	519	543	684	650	771	798	824	983	1010	1037	1089	1126	1163	
604: Sparcelus_42	68	986	122	176	199	229	283	388	394	442	519	543	684	650	771	798	824	983	1010	1037	1089	1126	1163		
605: FountainFog_39	17	68	986	122	176	199	229	388	394	442	519	543	684	650	771	798	824	983	1010	1037	1089	1126	1163		
606: MontySmith_38	17	68	986	122	176	199	229	388	394	442	519	543	684	650	771	798	824	983	1010	1037	1089	1126	1163		
607: JDawG_39 + 1	13	30	68	986	122	176	199	283	388	394	442	519	543	684	650	771	798	824	983	1010	1037	1089	1126	1163	
608: Kors_42	17	68	986	122	176	199	229	388	394	442	519	543	684	650	771	798	824	983	1010	1037	1089	1126	1163		
609: Hager_41	17	68	986	122	176	199	229	388	394	442	519	543	684	650	771	798	824	983	1010	1037	1089	1126	1163		
610: Krampus_40	13	30	68	986	122	176	199	283	388	394	442	519	543	684	650	771	798	824	983	1010	1037	1089	1126	1163	
611: TinyViny_42	17	68	986	122	176	199	229	388	394	442	519	543	684	650	771	798	824	983	1010	1037	1089	1126	1163		
612: Tongui_40	30	68	986	122	176	199	229	283	388	394	442	519	543	684	650	771	798	824	983	1010	1037	1089	1126	1163	
613: RikSengupta_42	68	986	122	176	199	229	283	388	394	442	519	543	684	650	771	798	824	983	1010	1037	1089	1126	1163		
614: Pedro_40	17	68	986	122	176	199	229	388	394	442	519	543	684	650	771	798	824	983	1010	1037	1089	1126	1163		
615: DannyDe_40	13	30	68	986	122	176	199	283	388	394	442	519	543	684	650	771	798	824	983	1010	1037	1089	1126	1163	
616: Bramble_42	17	68	986	122	176	199	229	388	394	442	519	543	684	650	771	798	824	983	1010	1037	1089	1126	1163		
617: RieI8_40	13	30	68	986	122	176	199	229	388	394	442	519	543	684	650	771	798	824	983	1010	1037	1089	1126	1163	
618: LordBart_42	68	986	122	176	199	229	388	394	442	519	543	684	650	771	798	824	983	1010	1037	1089	1126	1163			
619: Haunter_40	986	122	176	199	229	283	388	394	442	519	543	684	650	771	798	824	983	1010	1037	1089	1126	1163			
620: Cicada_35 + 1	283	298	388	394	442	464	519	543	588	630	674	740	771	798	824	983	1010	1037	1089	1126	1163				
621: PernaG_34	283	298	388	394	442	464	519	543	588	630	674	740	771	798	824	983	1010	1037	1089	1126	1163				
622: Linayshia_33	216	298	388	394	442	464	519	543	588	630	674	740	771	798	824	983	1010	1037	1089	1126	1163				
623: Jera_34	216	298	388	394	442	464	519	543	588	630	674	740	771	798	824	983	1010	1037	1089	1126	1163				
624: Rasovi_33 + 1	216	298	388	394	442	464	519	543	588	630	674	740	771	798	824	983	1010	1037	1089	1126	1163				
625: Ayoteo_35 + 2	298	388	394	442	464	519	543	588	630	674	740	771	798	824	983	1010	1037	1089	1126	1163					
626: Olympi_35	298	388	394	442	464	519	543	588	630	674	740	771	798	824	983	1010	1037	1089	1126	1163					
627: Miami_33	298	388	394	442	464	519	543	588	630	674	740	771	798	824	983	1010	1037	1089	1126	1163					
628: Goodman_34 + 1	283	298	388	394	442	464	519	543	588	630	674	740	771	798	824	983	1010	1037	1089	1126	1163				
629: Sucha_30	216	298	388	394	442	464	519	543	588	630	674	740	771	798	824	983	1010	1037	1089	1126	1163				
630: Benry_32	216	298	388	394	442	464	519	543	588	630	674	740	771	798	824	983	1010	1037	1089	1126	1163				
631: Alove_33 + 2	216	298	388	394	442	464	519	543	588	630	674	740	771	798	824	983	1010	1037	1089	1126	1163				
632: IndiRoo_33	241	298	388	394	442	464	519	543	588	630	674	740	771	798	824	983	1010	1037	1089	1126	1163				
633: FireCastle_33	216	298	388	394	442	464	519	543	588	630	674	740	771	798	824	983	1010	1037	1089	1126	1163				
634: Zanella_33	216	298	388	394	442	464	519	543	588	630	674	740	771	798	824	983	1010	1037	1089	1126	1163				
635: Damascus_61	216	298	388	394	442	464	519	543	588	630	674	740	771	798	824	983	1010	1037	1089	1126	1163				
636: Mema_60	263	298	388	394	442	464	519	543	588	630	674	740	771	798	824	983	1010	1037	1089	1126	1163				
637: Camille_59	216	298	388	394	442	464	519	543	588	630	674	740	771	798	824	983	1010	1037	1089	1126	1163				
638: DizzyRudy_65	216	298	388	394	442	464	519	543	588	630	674	740	771	798	824	983	1010	1037	1089	1126	1163				
639: Count_93	32	74	134	153	263	388	394	442	464	519	543	588	630	674	740	771	798	824	983	1010	1037	1089	1126	1163	
640: StickyNote_71 + 1	32	74	134	153	263	388	394	442	464	519	543	588	630	674	740	771	798	824	983	1010	1037	1089	1126	1163	
641: Kimchi1738_73	32	74	134	153	263	388	394	442	464	519	543	588	630	674	740	771	798	824	983	1010	1037	1089	1126	1163	
642: C3PO_72 + 1	32	74	134	153	263	388	394	442	464	519	543	588	630	674	740	771	798	824	983	1010	1037	1089	1126	1163	
643: Zion_72 + 2	32	74	134	153	263	388	394	442	464	519	543	588	630	674	740	771	798	824	983	1010	1037	1089	1126	1163	
644: SamWV_45 + 4	32	74	134	153	263	388	394	442	464	519	543	588	630	674	740	771	798	824	983	1010	1037	1089	1126	1163	
645: StAB_50	32	74	134	153	263	388	394	442	464	519	543	588	630	674	740	771	798	824	983	1010	1037	1089	1126	1163	
646: Stiles_49	71	121	169	232	238	291	388	394	442	464	519	543	588	630	674	740	771	798	824	983	1010	1037	1089	1126	1163
647: GoldenEssence_87	71	121	169	232	238	291	388	394	442	464	519	543	588	630	674	740	771	798	824	983	1010	1037	1089	1126	1163
648: LeoJR_100 + 2	71	121	169	232	238	291	388	394	442	464	519	543	588	630	674	740	771	798	824	983	1010	1037	1089	1126	1163
649: KSunshine22_95	71	121	169	232	238	291	388	394	442	464	519	543	588	630	674	740	771	798	824	983	1010	1037	1089	1126	1163
650: Bootena_97 + 4	71	121	169	232	238	291	388	394	442	464	519	543	588	630	674	740	771	798	824	983	1010	1037	1089	1126	1163

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[illegible]

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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 310998 Report

This analysis was run 06/27/26 on database version 652.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 310998 has 1197 members, 165 are drafts.

Phages represented in each track:

- Track 1 : NoShow_58
- Track 2 : LongHai_51, Salvus_51
- Track 3 : 8UZL_50, FF47_48
- Track 4 : JacoRen57_46
- Track 5 : Maco6_48, Muddy_50
- Track 6 : Cuke_73
- Track 7 : Indlulamithi_65
- Track 8 : MrMiyagi_73
- Track 9 : Fowlmouth_74
- Track 10 : Onyinye_65, Aikoy_65
- Track 11 : Leopard_64
- Track 12 : Aledel_26, Riovina_26, Eunoia_26, OMalley_26
- Track 13 : Lucy_25
- Track 14 : DreamTeam_25, Gisselle_25, Kittykat_25
- Track 15 : Christian_25
- Track 16 : WonderBoy_25
- Track 17 : Nubia_29, Oxyntfrius_29
- Track 18 : HunterDalle_26, Vulture_26
- Track 19 : Beethoven_29, Vallejo_29, Glenn_29, TattModd_29, Fluke_29, Rozby_29, Riverdale_29, Carpal_29
- Track 20 : EstebanJulior_26, MamaPearl_26
- Track 21 : MrBoss_30
- Track 22 : Misaeng_29
- Track 23 : Huntingdon_29, RcigaStruga_29
- Track 24 : BrotherBLo_29
- Track 25 : Chridison_26
- Track 26 : RAP15_29, Cholula_29, MeganNoll_29, Jumboset_29, Savage2526_29, Potatoes_29
- Track 27 : Maria1952_26, Sergei_26, Daiboju_26, KingBob_26, Temper16_26, Herb_26
- Track 28 : AppleCider_29
- Track 29 : Wawa_29
- Track 30 : Moki_25

- Track 31 : Bennie_25
- Track 32 : CristinaYang_25, ChewChew_25, DrRobert_25, Nancia_25, PitaDog_25, Bodacious_25
- Track 33 : Pumancara_25
- Track 34 : Albanese_29
- Track 35 : GreenHearts_29
- Track 36 : Urla_26
- Track 37 : Suppi_29, Canowicakte_29, Wayne_29
- Track 38 : Greenhouse_29
- Track 39 : Joann_29
- Track 40 : Preamble_25
- Track 41 : Zorro_29
- Track 42 : PinkFriday_25
- Track 43 : Lakshmi_29
- Track 44 : Litotes_29
- Track 45 : AustinPowers_26
- Track 46 : Korra_30
- Track 47 : Kalizoi_29
- Track 48 : Graynor_30
- Track 49 : PartyCup_29
- Track 50 : Scuttle_29
- Track 51 : BigMack_25
- Track 52 : LilStuart_25
- Track 53 : Makoto_25
- Track 54 : Wheelbite_90
- Track 55 : Shrooms_93
- Track 56 : LiSara_92, Salgado_95
- Track 57 : ApoKipo_99
- Track 58 : Kovu_95
- Track 59 : Edmundo_94
- Track 60 : Laroye_95
- Track 61 : Waltz_91
- Track 62 : Correa_77, Nason_79, Arcadia_79, Xenomorph_75, Elsa_79, Tribby_82
- Track 63 : Heisenberger_78, Mudcat_75, Cheesy_80, JEGGS_78
- Track 64 : Dynamite_80, Hankly_80, NapoleonB_81
- Track 65 : KeaneyLin_76, Benllo_77, GoCrazy_77
- Track 66 : Kardesai_80, Mooshroom_81
- Track 67 : Bowling_82, BenitoAntonio_79
- Track 68 : YoshiYama_81, Stardom_79
- Track 69 : Circum_80
- Track 70 : SorJuana_70, Anansi_70, Rings_71, Gorgeous_70
- Track 71 : Amavida_72, Heylee_73
- Track 72 : Amigo_71, Jaek_70, Yeezus_70, Ichor_70, Boersma_73
- Track 73 : Molivia_74
- Track 74 : Thunderclap_70
- Track 75 : HumptyDumpty_90, RosiePosie_90, Tophat_91, Scavito_91, JaNo_89, MoyaNatalis_89, JayCookie_90, Chocolat_90, Kabreeze_90, Conboy_88, Mordred_90, Linus_90, Chipper1996_910
- Track 76 : Lymara_87
- Track 77 : Colucci_93
- Track 78 : Chubster_90
- Track 79 : PrincessTrina_91
- Track 80 : EdgarPoe_89

- Track 81 : DrYang_86
- Track 82 : ArV1_077
- Track 83 : KBurrousTX_88
- Track 84 : Nightmare_73
- Track 85 : Gordon_69
- Track 86 : CastorTray_75
- Track 87 : Tenno_72, MiniBagel_73, Issa_67, CapnMurica_69
- Track 88 : Westerlin_69
- Track 89 : Niktson_72, ElephantMan_72
- Track 90 : ScienceWizSam_73
- Track 91 : Teacup_73
- Track 92 : LucySwiss_73
- Track 93 : Acai_70
- Track 94 : Breylor17_68
- Track 95 : Darby_69
- Track 96 : Nivinsha_74
- Track 97 : Brunswick_73
- Track 98 : Hemma_70
- Track 99 : DevitoJr_71, Trustiboi_70
- Track 100 : Synepsis_67
- Track 101 : Dinallo_67
- Track 102 : Tatanka_66
- Track 103 : AreFloNak_77
- Track 104 : Shepard_78
- Track 105 : Bouchard_77
- Track 106 : Giantsbane_77
- Track 107 : Chlochlo_78
- Track 108 : Phaby_79
- Track 109 : Tokki_83
- Track 110 : Tipton_79
- Track 111 : LilHuddy_77
- Track 112 : Loretta_75, Ingrid_79
- Track 113 : Caterpillar_71
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- Track 665 : Qui_140, Elver_140, JeNeSaisPas_134, Paella_140
- Track 666 : Kureo_137
- Track 667 : Marianna39_137, Gandionco_136
- Track 668 : Ottawa_61, Kharcho_61
- Track 669 : Ezurina_37
- Track 670 : Studio_40
- Track 671 : TripleC_39
- Track 672 : Gerri43_38, Roberts_38, ChipsNGuac_38, ChamoyPickle_40, CardboardBox_39, Neuville_38, AnnabelLee_38
- Track 673 : Mireles_41
- Track 674 : Agamotto_38
- Track 675 : Audell_37
- Track 676 : Makima_38
- Track 677 : TMaxx_39
- Track 678 : LastNadiia_40
- Track 679 : Cassita_89
- Track 680 : BarnCat_85
- Track 681 : LeeroyJenkins_95
- Track 682 : WaterT_90
- Track 683 : Lifes_86

- Track 684 : Dodo_116, A3Wally_114, PauloDiaboli_114
- Track 685 : Big4_103
- Track 686 : Zooman_98
- Track 687 : Erasmago_105
- Track 688 : Cece_97
- Track 689 : Pumpernickel_111
- Track 690 : Huwburt_59
- Track 691 : Triscuit_58
- Track 692 : Megatron06_62, Damien_61, BobtimousPrime_63, Beckerton_60, Cborch11_63, Oaker_60
- Track 693 : Puissant_59
- Track 694 : Thumb_62, Phreeze_60
- Track 695 : Nish23_63
- Track 696 : Konstantine_65
- Track 697 : Predator_60
- Track 698 : DrLupo_67
- Track 699 : Barnyard_65
- Track 700 : Serenabean_73
- Track 701 : AddiRose_72
- Track 702 : Daddyjeff_74
- Track 703 : Sweetclover_73
- Track 704 : Eevee_75, JoyLin_76
- Track 705 : Yotsuba_76
- Track 706 : Pippin15_76
- Track 707 : Commonplace_74
- Track 708 : Nonagon_72
- Track 709 : Rope_66, Papyrus_66
- Track 710 : Candle_64
- Track 711 : MontyDev_68
- Track 712 : Nilo_68, Riparian_68, Send513_66, Yelo_65, Weiss13_66, Zenon_68
- Track 713 : Demikore_78, Labelle_76
- Track 714 : Madruga_74
- Track 715 : SuperSonics_79
- Track 716 : Patience_76
- Track 717 : Laure_105
- Track 718 : Parvaparticeps_24
- Track 719 : LuckyBarnes_64
- Track 720 : ChewyVIII_83
- Track 721 : Gallia_72
- Track 722 : Trogglehumper_76
- Track 723 : Magritte_46
- Track 724 : Shrew_71
- Track 725 : Shocker_54
- Track 726 : Wollypog_43
- Track 727 : CN1A_14
- Track 728 : Mbo2_52
- Track 729 : Yappy_96
- Track 730 : DocB7_048
- Track 731 : P1201_75
- Track 732 : CMP1_51

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 295, it was called in 213 of the 1032 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AddiRose_72, Aflac_87, AlainaMarie_87, Albanese_29, Aledel_26, Aloe25_89, AppleCider_29, Arataki_85, Arcadia_79, ArtetaBall_84, Artorias_87, AustinPowers_26, Avazak_87, Beethoven_29, BenitoAntonio_79, Benllo_77, Bennie_25, BetterYeti_85, BigMack_25, Bing_82, Blanky_82, BluerMoon_85, Bodacious_25, Boog_73, Bowling_82, BronxBay_74, BrotherBLo_29, Bugg_91, Burley_85, CWormy_84, Camille_59, Canowicakte_29, Captrips_86, Capybara_86, Carpal_29, Cheesy_80, CherryBlossom_81, ChewChew_25, ChickyNuggy_89, Chickenjars_87, Cholula_29, Chridison_26, Christian_25, Circum_80, Citrus_85, Conley_84, Correa_77, CricKo_89, CristinaYang_25, Crocheter_86, Daddyjeff_74, Daiboju_26, Damascus_61, Dancer_87, Dialga_86, DizzyRudy_65, Djungelskog_73, DoctorPepper_73, DrGrey_77, DrRobert_25, DreamTeam_25, Duffington_87, Dynamite_80, Eddiemania_87, Eevee_75, Egad_74, Elsa_79, EndAve_88, Esketit_77, Espio_79, EstebanJulior_26, Eunoia_26, Fazel_87, FidgetOrca_83, Figliar_85, Fluke_29, Football_91, FortCran_87, FrodoSwaggins_79, FromIndy_87, Gill_87, GirlPower_74, Gisselle_25, Glenn_29, Glintora_88, GoCrazy_77, Gravy_86, Graynor_30, GreenHearts_29, Greenhouse_29, Gusicorn_87, Hankly_80, HazuAndZazu_78, Heisenberger_78, HerbBucket_73, Herb_26, Hortihabitatio_84, Hoshi_82, HunterDalle_26, Huntingdon_29, Hydrus_85, IceWarrior_81, Indigenous_83, JEGGS_78, Jaylociraptor_81, Jeremy4pt0_73, Joann_29, Jodelie19_85, JoyLin_76, JulesRay_86, Jumboset_29, Kalizoi_29, Kardashian_78, Kardesai_80, KeaneyLin_76, Kenosha_85, Kerry_86, KingBob_26, Kittykat_25, Korra_30, Lakshmi_29, LibertyBell_74, LilStuart_25, Linda_74, Litotes_29, Lucy_25, Luthien_87, Madamato_80, Madvan_85, Magel_88, MajinBuu_87, Makoto_25, MamaPearl_26, Maria1952_26, Maya_81, MeganNoll_29, Meibysrarus_79, Michelle_74, Miek_83, Misaeng_29, Moki_25, Mooshroom_81, Mossy_85, MrAaronian_74, MrBoss_30, Mudcat_75, Mysticmoon_84, Nadmeg_85, Namo_83, Nancia_25, NapoleonB_81, Nason_79, Natasha_77, Nithya_86, NoPickles_88, Nubia_29, OMalley_26, Odesza_86, OhMyWard_81, OlgasClover_88, OlympicHelado_83, Onestar_73, Oxyfnrius_29, PartyCup_29, Parvaparticeps_24, Perkunas_88, PestoPenguin_90, Petite_87, Phepper_87, Pherobrine_84, PinkFriday_25, PitaDog_25, Popy_79, Potatoes_29, PowellDog_77, Preamble_25, ProfFrink_74, Pumancara_25, RAP15_29, Rainydai_86, Raunak_75, RcigaStruga_29, Regigigas_89, Rickmore_86, Rima_82, Riovina_26, Riverdale_29, Roney_85, Rozby_29, Runhaar_84, RustyBoy_78, Salk_74, Savage2526_29, Schwartz33_83, Scuttle_29, Secretariat_79, SendItCS_81, Serenabean_73, Sergei_26, ShaggyRogers_85, Shiba_73, Sloopyjoe_74, Soshi_80, Spectropatronm_80, Sporto_73, Sprinkle_75, StarLord_74, Stardom_79, Stayer_74, Suppi_29, SweetCrkHerbs_89, TaidaOne_81, Tairn4Wing_90, Talon44_89, Tanis_87, TattModd_29, Temper16_26, TenaciousP_87, Thiqqums_89, TieDye_77, Tonaltzin_91, TonyStarch_80, Tribby_82, Trufflozitus_88, Untouchable_88, Urla_26, Vallejo_29, Vardy_85, Vulture_26, Wawa_29, Wayne_29, Wigberry_84, WonderBoy_25, Xenomorph_75, YoshiYama_81, Yotsuba_76, Zeph_88, Zorro_29,

Genes that have the "Most Annotated" start but do not call it:

- Adgers_62, Alephilan_60, Barbochs_57, Beaver_62, BenoitCattle_59, BigShaq_59, BillyBobJr_65, BirksAndSocks_64, Boneham_63, Breezic_59, Butterball_62,

CathyBurgh_59, Chelms_59, CinnamonToast_65, Crete_60, Cuke_73, Dakiti_60, Demure_83, Diabla_63, DumpTruck_58, Edmundo_94, Eggsie_57, Ekhein_59, Exiguo_58, FelixAlejandro_64, Flakey_58, Fowlmouth_74, Gorko_58, GourdThymes_59, Hotorobo_59, Jellybones_61, John316_62, Kelzog_61, Laroye_95, LiSara_92, Lila22_61, Linetti_59, Lizzo_59, Mema_60, Monty_58, MrMiyagi_73, Msay19_64, PierreThree_58, Pippin15_76, PokyPuppy_58, Poland_64, RemRem_60, Rota_56, RoyalG_59, Salgado_95, Sam12_58, Sombrero_60, Spain_74, Squibbles_58, SteveFrench_58, Sweetclover_73, Wheelbite_90, Worcestershire_59,

Genes that do not have the "Most Annotated" start:

• 8UZL_50, A3Wally_114, ASegato_82, ASerpRocky_55, Acai_70, Acosta_42, Adat_47, Adelaide_46, Adjutor_52, Aesir_39, Agamoto_38, Agatha_53, Agente005_41, AikoCarson_54, Aikoy_65, Ajin_42, Alakazam_40, AlexAdler_41, Alleb_76, Alove_33, Altjira_78, Alyssamiracle_63, Alyxandracam_41, Amavida_72, Amigo_71, Amok_54, Amore2_62, Anakin_40, Anamika_57, Anandi_81, Anansi_70, AndPeggy_50, Andromedas_40, Anilorac_40, AnnaSerena_40, AnnabelLee_38, Annapurna_40, Annihilus_54, Antoinette_41, Apeppi_55, Apiary_72, ApoKipo_99, ArV1_077, Araceli_42, AranulaLuti_40, Archimedes_37, AreFloNak_77, Argan_75, Arti_71, Artiphact_40, Artu_93, Arzan_75, Asta_40, Astralis_60, Atuin_95, Aubergine_40, Audell_37, Austin_61, Avian_59, AxiPup_41, Axym_52, AyoTeo_35, Azira_49, Baines_40, Balloona_55, Balsa_40, Bandik_41, BarbieDoll_80, Barbonzobean_83, BarnCat_85, Barnyard_65, BaronJohn_40, Bavilard_56, BeautPeep30_41, Beckerton_60, BeeBee8_41, Benczkowski14_57, Benjalauren_41, Benry_32, Berries_57, Beyoncage_50, BiPauneto_74, Bianmat_57, Big4_103, BigChungus_56, BigMama_51, BigRedClifford_41, BillDoor_53, Bilo_53, BirthdayBoy_62, Biscute_76, Biskit_55, BiteSize_50, BlackHoleSun_78, Blage_41, Blondies_56, Bloom_105, BlueNGold_166, BobtimousPrime_63, Boersma_73, Bogota_43, BonesMcCoy_41, Bonino_40, Bonum_76, BooTeria_97, Boopy_169, Bouchard_77, BouleyBill_39, Brad_47, Bramble_42, Braxoaddie_72, Breylor17_68, Brunswick_73, Bubble_51, Buggaboo_74, Burnsey_53, Bustleton_39, Butterscotch_52, Button_57, Buttrmilkdreams_55, Byron23_42, C3PO_72, CMP1_51, CN1A_14, Calix_40, Camerico_63, Candle_64, CanesSauce_52, CapnMurica_69, CaptainRex_40, CaramelLatte_52, CardboardBox_39, CarisSwetlik_43, Carostasia_39, Carsonalex_56, Casablanacas_85, Casey_37, Casserole_47, Cassita_89, CastorTray_75, Caterpillar_71, Cborch11_63, Cece_97, Chako_40, ChamoyPickle_40, Chamuel_40, Charianelly_57, Charminar_59, Cheeto1_42, Chepli_42, CherryonLim_57, ChewyVIII_83, ChickenKing_40, ChickenTender_56, ChikPic_40, Chill_55, Chilliams_99, Chipper1996_910, ChipsNGuac_38, Chivey_40, Chlochlo_78, ChocoMunchkin_52, Chocolat_90, Christoph_40, Chubster_90, Cicada_35, Clancy_40, Cleo_47, Clock_40, ClubPenguin_86, CocoaPuff_56, CoffeeBean_72, ColaCorta_40, Colucci_93, Commandaria_72, Commonplace_74, Conboy_88, Convict_41, CoolCookie_40, CoraRita_40, Count_93, Cozz_51, Crestdrop_40, Crosby_42, Cruella_72, Cybele_40, Dalilpop_75, Damien_61, Damp_57, DannyDe_40, Darby_69, Darwin_73, Dauntless_39, Dave_41, DaviePasture_60, DejaVu_80, Delphidian_41, Delton_54, Demikore_78, Demosthenes_55, Den3_41, Deschain_85, DevitoJr_71, Dina_47, Dinallo_67, Ditters_52, Djokovic_50, DocB7_048, Dodo_116, DoobyDoo_59, Dothraki_41, Doxi13_55, DrLupo_67, DrYang_86, Dre3_48, Dryad_74, DunneganBoMo_90, Duocatuli_40, DustyDino_88, EdgarPoe_89, EhyElimayoE_125, ElJefes_58, ElephantMan_72, Eleri_40, Elinal_60, Elliott_53, Ellewin_89, Elver_140, Emalyn_52, Emianna_72, Emmetator_93, Endor_41, Ennea_79, Erasmago_105, Erenyeager_84, Erk16_52, Erla_40, Erudite_39, Erutan_60, Espinosa_40, Etna_40, Etta_40,

Exploradora_40, Ezurina_37, FF47_48, FarmerDoug_40, Feastonyeet_56, Figueroism_41, Finny_41, FireCastle_33, Flapper_75, Float294_74, FloraSnap32_101, Fork_80, Forza_170, FountainFog_39, Foxboro_72, Frankenweenie_134, FreddieHg_40, Fribs8_48, Frizzle_34, FrostedClock_104, Fulcrum_60, Fulton_40, Fury_82, GMA2_64, GMA3_58, GMA7_51, GOATification_60, GRU1_61, GTE2_44, GTE5_60, GTE7_50, GTE8_60, GaeCeo_42, Gagieri_70, GalacticEye_57, GalaxyEater_51, Gallia_72, Gandionco_136, GantcherGoblin_74, GardenB_40, Garey24_41, Gargoyle_41, Gelo_40, Genamy16_63, GermyBearimy_84, Gerri43_38, Gershwin_40, Ghobes_35, GiKK_57, Giantsbane_77, Gibbin_62, Gibbles_56, Gibbous_48, Gibson_70, Gilda_40, Giuseppe_53, Glamour_40, Gmala1_55, GoblinVoyage_54, GodonK_184, GoingMerry_42, GoldHunter_54, GoldenEssence_87, Golden_39, GoneGirl_41, Goodman_34, GordDuk1_59, GordTnk2_60, Gordon_69, Gorgeous_70, Greenlvy_40, Greenbelt_68, GretelLyn_60, Greys_41, GrootJr_74, Gubbabump_40, Guetzie_40, Guillaume_57, Gumball_52, GurgleFerb_47, Hager_41, Hail2Pitt_56, HairyMan_37, Hamlet_40, HanSolo_40, HankSprout_41, Harambe_57, Hasitha_40, Haunter_40, HavenFinLeoSun_42, Hawkeye_56, HayZem_62, Hello_57, Helpful_56, Hemma_70, Henoccus_42, HerculesXL_40, Hexbug_60, Heylee_73, Hiddenleaf_40, HippoPololi_50, HollowPurple_85, Hollow_57, HomeFry_79, Horseradish_55, Hortus1_77, HotFries_52, Htur_33, HubbaBubba_67, Hubbs_78, HumptyDumpty_90, HungryHenry_40, Huwbert_59, IDyn_69, Ichor_70, Ilzat_40, IndiRoo_33, Indlulamithi_65, Ingrid_79, Inked_79, Intolerant_41, Inventa_41, Ioannes_41, Issa7_83, Issa_67, Ixel_41, JDawG_39, JaNo_89, JackieB_42, Jacko_79, JacoRen57_46, Jaek_70, Jalebi_59, Jamemuya19_59, Jams_57, Jamzy_58, Janus167_40, Jasmine_49, JasonD_43, JasperRussell_40, JayCookie_90, Jazzy4900_73, JeNeSaisPas_134, Jemerald_42, Jenos_44, Jera_34, Jerbirus_42, JeriBeth_40, Jifall16_71, JingleBells_40, Jingles_40, Johann_34, Jormungandr_57, Juanyo_39, Juicer_42, Jumbo_57, JustBecause_122, KBurroustX_88, KSunshine22_95, Kabluna_75, Kabreeze_90, Kale_40, Kampe_58, KandZ_52, KannH_40, Karate_39, Kaseim_57, KatChan_42, Kate_41, Katyusha_57, Kauala_39, Kavo_39, KayGee_58, Kela_123, KellyGreen_42, KevinMinion_73, Kharcho_61, KidneyBean_72, KimJongPhill_74, Kimchi1738_73, KingJulien_40, Kinny_79, Klimt_41, Knox_41, Koji_39, Konstantine_65, Kors_42, Kouch_41, Kovu_95, Kradal_124, Krampus_40, Kureo_137, Kurt1_41, Kurt_72, Kvothe_56, Labella_35, Labelle_76, LadyJasley_54, Lahirium_57, Lambo_58, LastNadiia_40, Lauer_52, Laure_105, LavAbarElk_60, LazerLemon_42, Leafus_40, Leatheia_79, Lederberg_45, LeeroyJenkins_95, LeoJr_100, Leopard_64, Lewando_79, Librie_40, Lidong_57, Lifes_86, LilHuddy_77, LilTerminator_40, LilyPad_52, Linayshia_33, Linus_90, LittleFella_57, Lizz_70, Lollipop1437_76, LongHai_51, LordBart_42, Loretta_75, Lovelyunicorn_41, Lucky3_39, LuckyBarnes_64, LuckyLeo_57, LucySwiss_73, Ludgate_41, Luker_58, Luna18_42, Lupine_78, Lyell_84, Lymara_87, MAnor_58, MCubed_40, MScarn_57, MaVan_49, MacGully_81, Maco6_48, Madi_50, Madruga_74, MaeLinda_41, Magritte_46, Makai_75, Makima_38, Malvina_51, ManRay_40, Mandalorian_39, Mardi_77, Mareelih_167, Margaret_58, Marianna39_137, Marietta_72, Marky_44, Martin_42, Maselop_72, Mayweather_61, Mbo2_52, McDazzle_58, McGalleon_43, MediumFry_71, Megatron06_62, MerCougar_75, Mercedes_36, Merida02_43, Microdon_41, Milani_33, MillyPhilly_41, Mima20_60, Mimi_101, MiniBagel_73, MiniVolent_38, Minos_58, Mireles_41, Mistmere_78, MoiGyank_63, Molivia_74, MonChoix_39, Monse_53, MontyDev_68, Moozy_53, Mopey_54, Mordred_90, Morrigan_42, MortySmith_38, MoyaNatalis_89, MrWorldwide_41, MrWormie_57, Muddy_50, Muglass_78, MunkgeeRoachy_51, Musetta_83, NadineRae_71, Nagem_41, NarutoRun_40, NatB6_72, Nattles_40, Navi1117_80, Nebulous_39, Necrophoxinus_86, Neferthema_41, Nellie_47,

Neoevie_57, Neptune_40, Neuville_38, Newt_58, Niagara_57, Nibbles_48, NickSell_41, Nightmare_73, Niktson_72, Nilo_68, Nimi13_57, Nina_53, Nirvana_129, Nish23_63, Nivinsha_74, NoShow_58, Nodigi_60, Nonagon_72, NorManre_63, NosilaM_73, NovaSharks_62, Nova_52, NovumRegina_72, Nucci_39, Oaker_60, Oats_40, OhDear_40, OldNelly_42, OlinDD_77, Olympi_35, Onyinye_65, Orchid_57, Orla_60, Ottawa_61, OtterstedtS21_60, Outis_73, OverHedge_40, Oxtober96_42, P1201_75, PBI1_50, PHTown_70, PLOT_53, PSirce_40, Paella_140, Pajaza_37, Panchaali_92, Papafritta_40, Papyrus_66, ParleG_41, ParvusTarda_59, Patbob_100, Patience_76, Patio_74, Patos_63, PatrickStar_58, PauloDiaboli_114, Pavlo_78, Peep_41, Pemberton_73, Penelope2018_53, Penta_37, Peppino_40, Pepy6_052, PermaG_34, PerroGrande22_112, PeteyPab_71, Phaby_79, Phaila_76, Phalaborwa_53, Phanita_41, Pharpay_40, Phendrix_173, Pherbot_39, Pherferi_41, PherryCruz_53, Phiderman_41, PhillyPhantom_40, PhillyPhilly_77, Philon9_57, Phireproof_41, Phomeo_71, Phrampa_94, PhredFlintston_41, Phreeze_60, Phriends_41, Phroglets_49, PhunaPhoke_40, PigHeaded_55, Pikmin_37, Pioneer3_77, Platte_76, Pleakley_82, Pocket_40, Poco6_051, PoeMe_77, Polyyuki_72, Pons_58, PorkBelly_54, PotPie_56, PotatoChip_72, Potty_40, Poultruss_39, Prager_53, Predator_60, PrincePhergus_39, PrincessTrina_91, PsychoKiller_52, Puissant_59, Pumpernickel_111, PuppyEggo_41, Pywacket_58, QuadZero_39, Quantum_123, Quartz_40, Quasar_53, Qui_140, RADical_54, RSchmailz_54, Raccoon_40, Racecar_102, Rachella_40, RanchParmCat_57, Ranch_60, Rapheph_41, Raptor_41, Rasovi_33, RavenPuff_54, RazorC_60, RedBaron_58, RedRaider_79, Redfield_40, ReginaGlobina_100, Renaldo_84, RenegadeRaider_42, Renzie_41, Reynauld_56, Riduram_59, Rie18_40, RikSengupta_42, Rings_71, Riparian_68, Riyhil_41, Roberts_38, RobinSparkles_61, Robinson_41, Rockabye_105, Rog141_40, Roman_81, Rooney_70, Rootkit7_33, Rope_66, RosaAsantewaa_50, RosieMae_40, RosiePosie_90, Rukungu_63, Rumi_61, RunningBrook_86, SBlackberry_33, SJReid_105, SJay_41, Sadboi_61, Salvus_51, SamW_45, Sampudon_60, Sangak_53, Sansa_39, Sapo_34, Saradis_80, Saratos_40, Sarkar_124, SassyC_75, Satis_124, Scap1_51, Scavito_91, Schimmels22_39, Schnapsidee_40, Schubert_39, ScienceWizSam_73, Scissor2024_40, Scuba_83, Sedgewig_40, Send513_66, ShaiHulud_41, ShakeNBake_70, Shamu_41, SheRa_54, SheckWes_60, Shee_41, Shelley_57, Shepard_78, Shocker_54, Shrew_71, Shroomer_89, Shrooms_93, Shynx_42, Sienna_50, SilentWarrior_40, Sinatra_40, SirHarley_54, SirVictor_40, Sixama_168, SketchMex_53, Skysand_75, Snakehole_40, Socotra_54, SoilGremlin_42, SolidSnake_43, Solimine_81, SonOfLevi_41, Sopespian_50, SorJuana_70, Soror1_40, Sparcetis_42, Srilaccoli3_51, StAB_50, Stanktossa_41, StarStruck_73, Starburst_53, Stardrop_76, SteakFry_87, SteamedHams_54, StevieWelch_85, Stewart25555_92, Sticker17_57, Stickynote_71, Stiles_49, StingRay_40, StirfryIV_40, Stormbreaker8_40, Stormer_61, Strathdee_41, Studio_40, Stuff_42, Sucha_30, Sukkupi_71, SummitAcademy_56, Sunny4976_72, SuperSonics_79, SuperSulley_74, Superfresh_41, SuperheroCarly_53, Survivors_49, Suzy_49, SweatNTears_55, Symere_40, Synopsis_67, TMaxx_39, Talia1610_101, Tandem_77, Tarnish_57, Tatanka_66, TatarkaPM_41, Teacup_73, Teagan_41, Teal_57, Teatealatte_58, TeddyBear_40, Tedro_40, Teech_58, Tenda_40, Tenney120_77, Tenno_72, Terapin_51, Theresita_31, Thompsone_41, Thorongil_41, Thoth_53, Thumb_62, Thunderclap_70, Tiggy93_40, Tillicus_56, TinSulphur_42, TinyMiny_42, Tinyman4_39, Tipton_79, Tokki_83, Tolls_54, Tongui_40, Tophat_91, Tracker_72, Tredge_57, TripleC_39, Triscuit_58, TrixiePhattel_78, Trogglehumper_76, Troje_55, Troll4_53, Troy_45, Truckee_73, Trustiboi_70, TurboVicky_33, Turuncu_75, TwoBits_39, Typher_35, Typhonomachy_52, UNTPL_44, Uterion_82, Uzumaki_75, Velene_41, Vine_59, Virizion_75, Visconti_54,

Vispistious_41, Vitaenoi_57, WaddleDee_88, WaldoWhy_55, Wallaby_51, Waltz_91, Wardwill_42, WaterT_90, Weiss13_66, Welcome_86, Wentworth_70, WestPM_37, Westerlin_69, Wheezy_72, WhoseManz_71, WildNOut_41, Wilkos_72, WilliamStrong_40, Winzigespinne_40, Woos_57, Wojtek_56, Wolfstar_82, Wolfwood_49, Wolypog_43, Xebius_40, Xenia2_58, Yakult_55, Yappy_96, Yara_66, Yarn_50, Yeezus_70, Yelo_65, Yikes_62, Yndexa_71, Yucky_59, Yuma_83, Yummy_55, Yuyu_40, Zada_42, Zanella_33, Zany_58, Zareef_49, Zayuliv_40, Zeina_80, Zenitsu_40, Zenon_68, Zepp_40, Zion_72, Zippen_79, Zooman_98, Zuko_72,

Summary by start number:

Start 30:

- Found in 7 of 1197 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 1032
- Called 14.3% of time when present
- Phage (with cluster) where this start called: TinyMiny_42 (EF),

Start 35:

- Found in 46 of 1197 (3.8%) of genes in pham
- Manual Annotations of this start: 35 of 1032
- Called 80.4% of time when present
- Phage (with cluster) where this start called: Arti_71 (CR2), Bonum_76 (CR2), Buggaboo_74 (CR2), Commandaria_72 (CR2), Dalilpop_75 (CR1), Emianna_72 (CR2), Ennea_79 (CR3), Flapper_75 (CR1), Float294_74 (CR3), Foxboro_72 (CR2), Fury_82 (CR5), GRU1_61 (CR1), GrootJr_74 (CR2), HomeFry_79 (CR5), HubbaBubba_67 (CR4), IDyn_69 (CR4), Jifall16_71 (CR2), Kabluna_75 (CR2), KidneyBean_72 (CR2), Kurt_72 (CR2), Lollipop1437_76 (CR3), Marietta_72 (CR4), MerCougar_75 (CR2), NadineRae_71 (CR4), NovumRegina_72 (CR2), Outis_73 (CR2), Patio_74 (CR3), Phomeo_71 (CR2), Pleakley_82 (CR5), RedRaider_79 (CR3), Scuba_83 (CR5), Skysand_75 (CR3), StarStruck_73 (CR2), SuperSulley_74 (CR2), Tracker_72 (CR2), Turuncu_75 (CR1), WhoseManz_71 (CR4),

Start 36:

- Found in 6 of 1197 (0.5%) of genes in pham
- Manual Annotations of this start: 6 of 1032
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Apiary_72 (CR6), Braxoaddie_72 (CR6), CoffeeBean_72 (CR6), Gagieri_70 (CR6), Maselop_72 (CR6), Polyyuki_72 (CR6),

Start 37:

- Found in 1 of 1197 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 1032
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MacGully_81 (CR7),

Start 38:

- Found in 7 of 1197 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 1032
- Called 14.3% of time when present
- Phage (with cluster) where this start called: ChewyVIII_83 (singleton),

Start 46:

- Found in 1 of 1197 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 1032
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SuperheroCarly_53 (D1),

Start 47:

- Found in 1 of 1197 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 1032
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Barnyard_65 (H2),

Start 49:

- Found in 1 of 1197 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 1032
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DrLupo_67 (H2),

Start 50:

- Found in 1 of 1197 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 1032
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LadyJasley_54 (AV),

Start 51:

- Found in 20 of 1197 (1.7%) of genes in pham
- Manual Annotations of this start: 11 of 1032
- Called 55.0% of time when present
- Phage (with cluster) where this start called: Beckerton_60 (H1), BobtimousPrime_63 (H1), Cborch11_63 (H1), Damien_61 (H1), Konstantine_65 (H1), Megatron06_62 (H1), Oaker_60 (H1), Phreeze_60 (H1), Predator_60 (H1), Puissant_59 (H1), Thumb_62 (H1),

Start 53:

- Found in 1 of 1197 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 1032
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Greenbelt_68 (BN),

Start 54:

- Found in 5 of 1197 (0.4%) of genes in pham
- Manual Annotations of this start: 3 of 1032
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Demikore_78 (U), Labelle_76 (U), Madrug_74 (U), Patience_76 (U), SuperSonics_79 (U),

Start 55:

- Found in 45 of 1197 (3.8%) of genes in pham
- Manual Annotations of this start: 13 of 1032
- Called 35.6% of time when present
- Phage (with cluster) where this start called: Alyssamiracle_63 (DV), Avian_59 (DV), Genamy16_63 (DV), Gibbin_62 (DV), GretelLyn_60 (DV), Jalebi_59 (DV), Jamemuya19_59 (DV), LuckyLeo_57 (DV), NovaSharks_62 (DV), ParvusTarda_59 (DV), Pywacket_58 (DV), Rota_56 (DV), Sampudon_60 (DV), Stormer_61 (DV),

Wojtek_56 (DV), Zany_58 (DV),

Start 57:

- Found in 1 of 1197 (0.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phalaborwa_53 (D1),

Start 58:

- Found in 45 of 1197 (3.8%) of genes in pham
- Manual Annotations of this start: 23 of 1032
- Called 55.6% of time when present
- Phage (with cluster) where this start called: Alephlan_60 (DV), Apeppi_55 (DV), Astralis_60 (DV), BirthdayBoy_62 (DV), Charminar_59 (DV), DaviePasture_60 (DV), DoobyDoo_59 (DV), Erutan_60 (DV), Fulcrum_60 (DV), GOATification_60 (DV), Lambo_58 (DV), LavAbarElk_60 (DV), Lila22_61 (DV), Mima20_60 (DV), MoiGyank_63 (DV), NorManre_63 (DV), OtterstedtS21_60 (DV), Patos_63 (DV), Ranch_60 (DV), RazorC_60 (DV), Riduram_59 (DV), Rukungu_63 (DV), Rumi_61 (DV), Sadboi_61 (DV), Yikes_62 (DV),

Start 59:

- Found in 1 of 1197 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 1032
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hawkeye_56 (D2),

Start 60:

- Found in 2 of 1197 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 1032
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Tillicus_56 (DV),

Start 61:

- Found in 11 of 1197 (0.9%) of genes in pham
- Manual Annotations of this start: 8 of 1032
- Called 90.9% of time when present
- Phage (with cluster) where this start called: Dryad_74 (BN), Gibson_70 (BN), Lizz_70 (BN), PHTowN_70 (BN), Rooney_70 (BN), SassyC_75 (BN), ShakeNBake_70 (BN), Wentworth_70 (BN), Wilkos_72 (BN), Yara_66 (BN),

Start 65:

- Found in 25 of 1197 (2.1%) of genes in pham
- Manual Annotations of this start: 24 of 1032
- Called 96.0% of time when present
- Phage (with cluster) where this start called: Adjutor_52 (D1), Aikoy_65 (AE), BigMama_51 (D1), Butterscotch_52 (D1), Chill_55 (D1), Delton_54 (D1), Erk16_52 (D1), Giuseppe_53 (D1), Gumball_52 (D1), Helpful_56 (D1), KandZ_52 (D1), Leopard_64 (AE), Mopey_54 (D1), Nova_52 (D1), Onyinye_65 (AE), PBI1_50 (D1), PLOT_53 (D1), Penelope2018_53 (D1), Prager_53 (D1), SirHarley_54 (D1), Thoth_53 (D1), Troll4_53 (D1), Visconti_54 (D1), WaldoWhy_55 (D1),

Start 67:

- Found in 2 of 1197 (0.2%) of genes in pham

- Manual Annotations of this start: 1 of 1032
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Cece_97 (GD3),

Start 68:

- Found in 40 of 1197 (3.3%) of genes in pham
- Manual Annotations of this start: 36 of 1032
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aesir_39 (EF), Anakin_40 (EF), AnnaSerena_40 (EF), Annapurna_40 (EF), Artiphact_40 (EF), Chivey_40 (EF), CoolCookie_40 (EF), Crestdrop_40 (EF), Cybele_40 (EF), DannyDe_40 (EF), Dauntless_39 (EF), Erudite_39 (EF), FountainFog_39 (EF), FreddieHg_40 (EF), Gilda_40 (EF), Hager_41 (EF), Haunter_40 (EF), Hiddenleaf_40 (EF), JDawG_39 (EF), JingleBells_40 (EF), Karate_39 (EF), Kate_41 (EF), Krampus_40 (EF), MortySmith_38 (EF), NarutoRun_40 (EF), Neptune_40 (EF), OhDear_40 (EF), OverHedge_40 (EF), Pharpay_40 (EF), PhunaPhoke_40 (EF), Potty_40 (EF), Poultruss_39 (EF), Rachella_40 (EF), Rie18_40 (EF), SilentWarrior_40 (EF), Snakehole_40 (EF), Tedro_40 (EF), Tiggy93_40 (EF), Tongui_40 (EF), Wollypog_43 (singleton),

Start 70:

- Found in 7 of 1197 (0.6%) of genes in pham
- Manual Annotations of this start: 5 of 1032
- Called 71.4% of time when present
- Phage (with cluster) where this start called: BlueNGold_166 (DS), Boopy_169 (DS), Forza_170 (DS), Mareelih_167 (DS), Sixama_168 (DS),

Start 71:

- Found in 28 of 1197 (2.3%) of genes in pham
- Manual Annotations of this start: 13 of 1032
- Called 96.4% of time when present
- Phage (with cluster) where this start called: Artu_93 (FC), Atuin_95 (FC), Bloom_105 (FC), BooTeria_97 (FC), Chilliams_99 (FC), DunneganBoMo_90 (FC), Ellewin_89 (FC), Emmetator_93 (FC), FloraSnap32_101 (FC), FrostedClock_104 (FC), GMA2_64 (DS), GoldenEssence_87 (FC), KSunshine22_95 (FC), Laure_105 (UNK), LeoJr_100 (FC), LittleFella_57 (DG2), Mimi_101 (FC), Panchaali_92 (FC), Patbob_100 (FC), Phrampa_94 (FC), Racecar_102 (FC), ReginaGlobina_100 (FC), Rockabye_105 (FC), SJReid_105 (FC), Stewart25555_92 (FC), Talia1610_101 (FC), WaddleDee_88 (FC),

Start 72:

- Found in 7 of 1197 (0.6%) of genes in pham
- Manual Annotations of this start: 6 of 1032
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Ajin_42 (EF), Bramble_42 (EF), Kors_42 (EF), LordBart_42 (EF), RikSengupta_42 (EF), Sparcetus_42 (EF),

Start 73:

- Found in 9 of 1197 (0.8%) of genes in pham
- No Manual Annotations of this start.
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Virizion_75 (BN),

Start 74:

- Found in 20 of 1197 (1.7%) of genes in pham
- Manual Annotations of this start: 16 of 1032
- Called 90.0% of time when present
- Phage (with cluster) where this start called: Beyoncage_50 (DG1), BiteSize_50 (DG1), C3PO_72 (EN), Cruella_72 (EN), Darwin_73 (EN), Djokovic_50 (DG1), Gallia_72 (singleton), Kimchi1738_73 (EN), LilyPad_52 (DG1), Madi_50 (DG1), P1201_75 (singleton), PeteyPab_71 (EN), PotatoChip_72 (EN), Sienna_50 (DG1), Stickynote_71 (EN), Suzy_49 (DG1), Terapin_51 (DG1), Zion_72 (EN),

Start 75:

- Found in 25 of 1197 (2.1%) of genes in pham
- Manual Annotations of this start: 19 of 1032
- Called 100.0% of time when present
- Phage (with cluster) where this start called: A3Wally_114 (GD1), Agamotto_38 (FR), AnnabelLee_38 (FR), Audell_37 (FR), Big4_103 (GD2), CardboardBox_39 (FR), ChamoyPickle_40 (FR), ChipsNGuac_38 (FR), Dodo_116 (GD1), Erasmago_105 (GD2), Ezurina_37 (FR), Gerri43_38 (FR), GodonK_184 (DK), LastNadiia_40 (FR), Makima_38 (FR), Mireles_41 (FR), Neuville_38 (FR), PauloDiaboli_114 (GD1), Phendrix_173 (DK), Pumpernickel_111 (GD4), Roberts_38 (FR), Studio_40 (FR), TMaxx_39 (FR), TripleC_39 (FR), Zooman_98 (GD2),

Start 76:

- Found in 44 of 1197 (3.7%) of genes in pham
- Manual Annotations of this start: 2 of 1032
- Called 4.5% of time when present
- Phage (with cluster) where this start called: DumpTruck_58 (DV), Xenia2_58 (DV),

Start 85:

- Found in 25 of 1197 (2.1%) of genes in pham
- No Manual Annotations of this start.
- Called 4.0% of time when present
- Phage (with cluster) where this start called: Nish23_63 (H1),

Start 89:

- Found in 57 of 1197 (4.8%) of genes in pham
- Manual Annotations of this start: 2 of 1032
- Called 5.3% of time when present
- Phage (with cluster) where this start called: GTE8_60 (CR2), NatB6_72 (CR2), Wheezy_72 (CR2),

Start 94:

- Found in 16 of 1197 (1.3%) of genes in pham
- Manual Annotations of this start: 4 of 1032
- Called 37.5% of time when present
- Phage (with cluster) where this start called: Adat_47 (AV), Brad_47 (AV), GalaxyEater_51 (AV), GurgleFerb_47 (AV), Nellie_47 (AV), PigHeaded_55 (AV),

Start 95:

- Found in 3 of 1197 (0.3%) of genes in pham
- Manual Annotations of this start: 3 of 1032
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Cuke_73 (AC), Fowlmouth_74 (AC), MrMiyagi_73 (AC),

Start 98:

- Found in 8 of 1197 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 1032
- Called 12.5% of time when present
- Phage (with cluster) where this start called: NosilaM_73 (CR2),

Start 103:

- Found in 40 of 1197 (3.3%) of genes in pham
- Manual Annotations of this start: 1 of 1032
- Called 2.5% of time when present
- Phage (with cluster) where this start called: Indlulamithi_65 (AC),

Start 107:

- Found in 2 of 1197 (0.2%) of genes in pham
- Manual Annotations of this start: 2 of 1032
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kharcho_61 (FM), Ottawa_61 (FM),

Start 116:

- Found in 3 of 1197 (0.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pepy6_052 (CC), PerroGrande22_112 (CC), Poco6_051 (CC),

Start 120:

- Found in 6 of 1197 (0.5%) of genes in pham
- Manual Annotations of this start: 3 of 1032
- Called 50.0% of time when present
- Phage (with cluster) where this start called: BiPauneto_74 (CR4), Sukkupi_71 (CR4), Yndexa_71 (CR4),

Start 123:

- Found in 9 of 1197 (0.8%) of genes in pham
- No Manual Annotations of this start.
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Pemberton_73 (CR4),

Start 130:

- Found in 4 of 1197 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 1032
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Casserole_47 (AV), Jasmine_49 (AV),

Start 158:

- Found in 20 of 1197 (1.7%) of genes in pham
- Manual Annotations of this start: 18 of 1032
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ArV1_077 (AR), Chipper1996_910 (AR), Chocolat_90 (AR), Chubster_90 (AR), Colucci_93 (AR), Conboy_88 (AR), DrYang_86

(AR), EdgarPoe_89 (AR), HumptyDumpty_90 (AR), JaNo_89 (AR), JayCookie_90 (AR), Kabreeze_90 (AR), Linus_90 (AR), Lymara_87 (AR), Mordred_90 (AR), MoyaNatalis_89 (AR), PrincessTrina_91 (AR), RosiePosie_90 (AR), Scavito_91 (AR), Tophat_91 (AR),

Start 160:

- Found in 1 of 1197 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 1032
- Called 100.0% of time when present
- Phage (with cluster) where this start called: KBurrousTX_88 (AR),

Start 183:

- Found in 12 of 1197 (1.0%) of genes in pham
- Manual Annotations of this start: 10 of 1032
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Candle_64 (R), MontyDev_68 (R), Nilo_68 (R), Papyrus_66 (R), Riparian_68 (R), Rope_66 (R), Send513_66 (R), Weiss13_66 (R), Yelo_65 (R), Zenon_68 (R),

Start 185:

- Found in 9 of 1197 (0.8%) of genes in pham
- Manual Annotations of this start: 9 of 1032
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ApoKipo_99 (AL), Edmundo_94 (AL), Kovu_95 (AL), Laroye_95 (AL), LiSara_92 (AL), Salgado_95 (AL), Shrooms_93 (AL), Waltz_91 (AL), Wheelbite_90 (AL),

Start 203:

- Found in 1 of 1197 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 1032
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phroglets_49 (AV),

Start 206:

- Found in 12 of 1197 (1.0%) of genes in pham
- Manual Annotations of this start: 9 of 1032
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Benczkowski14_57 (CS4), Hollow_57 (CS4), Katyusha_57 (CS4), Niagara_57 (CS4), Philon9_57 (CS4), Teatealatte_58 (CS4), Teech_58 (CS4), Tredge_57 (CS4), Vitaenoi_57 (CS4),

Start 209:

- Found in 13 of 1197 (1.1%) of genes in pham
- Manual Annotations of this start: 2 of 1032
- Called 15.4% of time when present
- Phage (with cluster) where this start called: Demosthenes_55 (CS4), Kvothe_56 (CS4),

Start 223:

- Found in 5 of 1197 (0.4%) of genes in pham
- Manual Annotations of this start: 3 of 1032
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Amore2_62 (CS1), Austin_61 (CS1), GMA7_51 (CS1), GTE7_50 (CS1), HayZem_62 (CS1),

Start 242:

- Found in 7 of 1197 (0.6%) of genes in pham
- Manual Annotations of this start: 2 of 1032
- Called 28.6% of time when present
- Phage (with cluster) where this start called: Commonplace_74 (JD), Nonagon_72 (JD),

Start 243:

- Found in 12 of 1197 (1.0%) of genes in pham
- Manual Annotations of this start: 1 of 1032
- Called 8.3% of time when present
- Phage (with cluster) where this start called: Anilorac_40 (EA1),

Start 250:

- Found in 20 of 1197 (1.7%) of genes in pham
- Manual Annotations of this start: 2 of 1032
- Called 30.0% of time when present
- Phage (with cluster) where this start called: 8UZL_50 (AB), FF47_48 (AB), LongHai_51 (AB), Maco6_48 (AB), Muddy_50 (AB), Salvus_51 (AB),

Start 255:

- Found in 10 of 1197 (0.8%) of genes in pham
- Manual Annotations of this start: 9 of 1032
- Called 90.0% of time when present
- Phage (with cluster) where this start called: EhyElimayoE_125 (BM), Frankenweenie_134 (BM), JustBecause_122 (BM), Kela_123 (BM), Kradal_124 (BM), Nirvana_129 (BM), Quantum_123 (BM), Sarkar_124 (BM), Satis_124 (BM),

Start 260:

- Found in 3 of 1197 (0.3%) of genes in pham
- Manual Annotations of this start: 3 of 1032
- Called 100.0% of time when present
- Phage (with cluster) where this start called: KimJongPhill_74 (BR), Magritte_46 (singleton), Zuko_72 (BR),

Start 272:

- Found in 4 of 1197 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 1032
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Triscuit_58 (GG),

Start 273:

- Found in 5 of 1197 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 1032
- Called 20.0% of time when present
- Phage (with cluster) where this start called: ASerpRocky_55 (CS4),

Start 275:

- Found in 14 of 1197 (1.2%) of genes in pham
- Manual Annotations of this start: 1 of 1032

- Called 7.1% of time when present
- Phage (with cluster) where this start called: Huwbart_59 (GG),

Start 277:

- Found in 69 of 1197 (5.8%) of genes in pham
- Manual Annotations of this start: 49 of 1032
- Called 95.7% of time when present
- Phage (with cluster) where this start called: Agatha_53 (CT), AikoCarson_54 (CT), Amok_54 (CT), AndPeggy_50 (CT), Axym_52 (CT), Azira_49 (CT), Balloona_55 (CT), Bavidard_56 (CT), BigChungus_56 (CT), BillDoor_53 (CT), Biskit_55 (CT), Blondies_56 (CT), Bubble_51 (CT), Burnsey_53 (CT), Buttrmlkdreams_55 (CT), CanesSauce_52 (CT), CaramelLatte_52 (CT), CherryonLim_57 (CT), ChickenTender_56 (CT), ChocoMunchkin_52 (CT), Cleo_47 (CT), Cozz_51 (CT), ElJefes_58 (CT), Elinal_60 (CT), Elliott_53 (CT), Emalyn_52 (CT), Feastonyet_56 (CT), GoldHunter_54 (CT), HippoPololi_50 (CT), Horseradish_55 (CT), KayGee_58 (CT), Lauer_52 (CT), MAnor_58 (CT), MScarn_57 (CT), MaVan_49 (CT), Malvina_51 (CT), McDazzle_58 (CT), MunkgeeRoachy_51 (CT), Nibbles_48 (CT), Nina_53 (CT), Pons_58 (CT), PotPie_56 (CT), PsychoKiller_52 (CT), Quasar_53 (CT), RADical_54 (CT), RSchmailz_54 (CT), SheckWes_60 (CT), SketchMex_53 (CT), Socotra_54 (CT), Sopespian_50 (CT), Starburst_53 (CT), SteamedHams_54 (CT), SummitAcademy_56 (CT), Survivors_49 (CT), SweatNTears_55 (CT), Tarnish_57 (CT), Tolls_54 (CT), Troje_55 (CT), Typhonmacy_52 (CT), Vine_59 (CT), Wallaby_51 (CT), Wolfwood_49 (CT), Yarn_50 (CT), Yucky_59 (CT), Yummy_55 (CT), Zareef_49 (CT),

Start 278:

- Found in 25 of 1197 (2.1%) of genes in pham
- Manual Annotations of this start: 3 of 1032
- Called 12.0% of time when present
- Phage (with cluster) where this start called: Dre3_48 (CT), Fribs8_48 (CT), Gibbous_48 (CT),

Start 280:

- Found in 16 of 1197 (1.3%) of genes in pham
- Manual Annotations of this start: 11 of 1032
- Called 68.8% of time when present
- Phage (with cluster) where this start called: Button_57 (CT), GiKK_57 (CT), Hexbug_60 (CT), Jamzy_58 (CT), Margaret_58 (CT), Nodigi_60 (CT), Orla_60 (CT), RanchParmCat_57 (CT), RedBaron_58 (CT), Shrew_71 (singleton), Yakult_55 (CT),

Start 282:

- Found in 5 of 1197 (0.4%) of genes in pham
- Manual Annotations of this start: 2 of 1032
- Called 60.0% of time when present
- Phage (with cluster) where this start called: CMP1_51 (singleton), JacoRen57_46 (AB), NoShow_58 (AB),

Start 290:

- Found in 68 of 1197 (5.7%) of genes in pham
- Manual Annotations of this start: 3 of 1032
- Called 7.4% of time when present
- Phage (with cluster) where this start called: BillyBobJr_65 (CS2), Charianelly_57 (CS3), CinnamonToast_65 (CS2), Eggsie_57 (CS2), Woes_57 (CS3),

Start 292:

- Found in 52 of 1197 (4.3%) of genes in pham
- Manual Annotations of this start: 28 of 1032
- Called 65.4% of time when present
- Phage (with cluster) where this start called: ASegato_82 (ED2), Alleb_76 (ED1), Casablanacas_85 (ED2), DejaVu_80 (ED1), Deschain_85 (ED2), DustyDino_88 (ED2), Erenyeager_84 (ED2), Fork_80 (ED2), HollowPurple_85 (ED2), Hortus1_77 (ED1), Hubbs_78 (ED1), Issa7_83 (ED2), Jacko_79 (ED1), Lupine_78 (ED1), Lyell_84 (ED2), Mistmere_78 (ED3), Musetta_83 (ED2), Necrophoxinus_86 (ED2), OlinDD_77 (ED1), Pavlo_78 (ED1), PhillyPhilly_77 (ED1), Pioneer3_77 (ED1), Platte_76 (ED1), Roman_81 (ED1), RunningBrook_86 (ED2), Saradis_80 (ED1), Shroomer_89 (ED2), Solimine_81 (ED1), SteakFry_87 (ED2), StevieWelch_85 (ED2), Tandem_77 (ED1), Uterion_82 (ED1), Welcome_86 (ED2), Yuma_83 (ED2),

Start 293:

- Found in 14 of 1197 (1.2%) of genes in pham
- Manual Annotations of this start: 5 of 1032
- Called 35.7% of time when present
- Phage (with cluster) where this start called: BarnCat_85 (GB), Cassita_89 (GB), LeeroyJenkins_95 (GB), Lifes_86 (GB), WaterT_90 (GB),

Start 294:

- Found in 89 of 1197 (7.4%) of genes in pham
- Manual Annotations of this start: 45 of 1032
- Called 71.9% of time when present
- Phage (with cluster) where this start called: Acai_70 (AU1), Altjira_78 (AU6), AreFloNak_77 (AU1), Argan_75 (AU6), Arzan_75 (FI), BarbieDoll_80 (AU6), Biscute_76 (AU6), BlackHoleSun_78 (AU6), Bouchard_77 (AU2), Breylor17_68 (AU1), Brunswick_73 (AU1), CapnMurica_69 (AU1), CastorTray_75 (AU1), Caterpillar_71 (AU4), Chlochlo_78 (AU2), Darby_69 (AU1), DevitoJr_71 (AU1), Dinallo_67 (AU1), ElephantMan_72 (AU1), Elver_140 (FK), Gandionco_136 (FK), GantcherGoblin_74 (AU6), GermyBearimy_84 (FI), Gordon_69 (AU1), Hemma_70 (AU1), Issa_67 (AU1), Jazzy4900_73 (FI), JeNeSaisPas_134 (FK), KevinMinion_73 (AU6), Kinny_79 (AU6), Kureo_137 (FK), Leatheia_79 (AU6), Lewando_79 (AU6), LilHuddy_77 (AU2), LucySwiss_73 (AU1), Makai_75 (AU5), Mardi_77 (AU6), Marianna39_137 (FK), MediumFry_71 (AU4), MiniBagel_73 (AU1), Navi1117_80 (AU6), Nightmare_73 (AU1), Niktson_72 (AU1), Nivinsha_74 (AU1), Paella_140 (FK), Phaby_79 (AU2), Phaila_76 (AU6), PoeMe_77 (AU6), Qui_140 (FK), Renaldo_84 (AU6), ScienceWizSam_73 (AU1), Stardrop_76 (AU6), Sunny4976_72 (FI), Synepsis_67 (AU1), Teacup_73 (AU1), Tenney120_77 (AU6), Tenno_72 (AU1), TrixiePhattel_78 (AU6), Truckee_73 (AU5), Trustiboi_70 (AU1), Uzumaki_75 (AU6), Wolfstar_82 (ED), Zeina_80 (AU6), Zippen_79 (AU7),

Start 295:

- Found in 296 of 1197 (24.7%) of genes in pham
- Manual Annotations of this start: 213 of 1032
- Called 80.4% of time when present
- Phage (with cluster) where this start called: AddiRose_72 (JA), Aflac_87 (DJ), AlainaMarie_87 (DJ), Albanese_29 (AK), Aledel_26 (AK), Aloe25_89 (DJ), AppleCider_29 (AK), Arataki_85 (DJ), Arcadia_79 (AM), ArtetaBall_84 (DJ), Artorias_87 (DJ), AustinPowers_26 (AK), Avazak_87 (DJ), Beethoven_29 (AK), BenitoAntonio_79 (AM), Benllo_77 (AM), Bennie_25 (AK), BetterYeti_85 (DJ),

BigMack_25 (AK), Bing_82 (BI5), Blanky_82 (DJ), BluerMoon_85 (DJ), Bodacious_25 (AK), Boog_73 (AW), Bowling_82 (AM), BronxBay_74 (AW), BrotherBLo_29 (AK), Bugg_91 (DJ), Burley_85 (DJ), CWormy_84 (DJ), Camille_59 (EL), Canowicakte_29 (AK), Captrips_86 (DJ), Capybara_86 (DJ), Carpal_29 (AK), Cheesy_80 (AM), CherryBlossom_81 (BI1), ChewChew_25 (AK), ChickyNuggy_89 (DJ), Chickenjars_87 (DJ), Cholula_29 (AK), Chridison_26 (AK), Christian_25 (AK), Circum_80 (AM), Citrus_85 (DJ), Conley_84 (DJ), Correa_77 (AM), CricKo_89 (BI4), CristinaYang_25 (AK), Crocheter_86 (DJ), Daddyjeff_74 (JA), Daiboju_26 (AK), Damascus_61 (EL), Dancer_87 (DJ), Dialga_86 (DJ), DizzyRudy_65 (EL), Djungelskog_73 (AW), DoctorPepper_73 (AW), DrGrey_77 (BI1), DrRobert_25 (AK), DreamTeam_25 (AK), Duffington_87 (DJ), Dynamite_80 (AM), Eddiemania_87 (DJ), Eevee_75 (JA), Egad_74 (AW), Elsa_79 (AM), EndAve_88 (DJ), Esketit_77 (BI1), Espio_79 (BI1), EstebanJulior_26 (AK), Eunoia_26 (AK), Fazel_87 (DJ), FidgetOrca_83 (BI1), Figliar_85 (DJ), Fluke_29 (AK), Football_91 (DJ), FortCran_87 (DJ), FrodoSwaggins_79 (BI1), FromIndy_87 (BI4), Gill_87 (DJ), GirlPower_74 (BI1), Gisselle_25 (AK), Glenn_29 (AK), Glintora_88 (DJ), GoCrazy_77 (AM), Gravy_86 (DJ), Graynor_30 (AK), GreenHearts_29 (AK), Greenhouse_29 (AK), Gusicorn_87 (DJ), Hankly_80 (AM), HazuAndZazu_78 (BI1), Heisenberger_78 (AM), HerbBucket_73 (AW), Herb_26 (AK), Hortihabitatio_84 (DJ), Hoshi_82 (BI1), HunterDalle_26 (AK), Huntingdon_29 (AK), Hydrus_85 (DJ), IceWarrior_81 (BI1), Indigenous_83 (BI1), JEGGS_78 (AM), Jaylociraptor_81 (BI1), Jeremy4pt0_73 (AW), Joann_29 (AK), Jodelie19_85 (DJ), JoyLin_76 (JA), JulesRay_86 (DJ), Jumboset_29 (AK), Kalizoi_29 (AK), Kardashian_78 (BI6), Kardesai_80 (AM), KeaneyLin_76 (AM), Kenosha_85 (DJ), Kerry_86 (DJ), KingBob_26 (AK), Kittykat_25 (AK), Korra_30 (AK), Lakshmi_29 (AK), LibertyBell_74 (BI3), LilStuart_25 (AK), Linda_74 (AW), Litotes_29 (AK), Lucy_25 (AK), Luthien_87 (DJ), Madamoto_80 (BI1), Madvan_85 (DJ), Magel_88 (DJ), MajinBuu_87 (DJ), Makoto_25 (AK), MamaPearl_26 (AK), Maria1952_26 (AK), Maya_81 (BI1), MeganNoll_29 (AK), Meibysrarus_79 (BI1), Michelle_74 (AW), Miek_83 (BI4), Misaeng_29 (AK), Moki_25 (AK), Mooshroom_81 (AM), Mossy_85 (DJ), MrAaronian_74 (AW), MrBoss_30 (AK), Mudcat_75 (AM), Mysticmoon_84 (DJ), Nadmeg_85 (DJ), Namo_83 (BI1), Nancia_25 (AK), NapoleonB_81 (AM), Nason_79 (AM), Natasha_77 (AW), Nithya_86 (DJ), NoPickles_88 (DJ), Nubia_29 (AK), OMalley_26 (AK), Odesza_86 (DJ), OhMyWard_81 (DJ), OlgasClover_88 (DJ), OlympicHelado_83 (BI1), Onestar_73 (AW), Oxyfnrius_29 (AK), PartyCup_29 (AK), Parvaparticeps_24 (UNK), Perkunas_88 (DJ), PestoPenguin_90 (DJ), Petito_87 (DJ), Phepper_87 (DJ), Pherobrine_84 (DJ), PinkFriday_25 (AK), PitaDog_25 (AK), Popy_79 (BI1), Potatoes_29 (AK), Powelldog_77 (AW), Preamble_25 (AK), ProfFrink_74 (AW), Pumancara_25 (AK), RAP15_29 (AK), Rainydai_86 (BI4), Raunak_75 (AW), RcigaStruga_29 (AK), Regigigas_89 (BI4), Rickmore_86 (DJ), Rima_82 (BI1), Riovina_26 (AK), Riverdale_29 (AK), Roney_85 (DJ), Rozby_29 (AK), Runhaar_84 (DJ), RustyBoy_78 (AW), Salk_74 (AW), Savage2526_29 (AK), Schwartz33_83 (DJ), Scuttle_29 (AK), Secretariat_79 (DJ), SendItCS_81 (BI4), Serenabean_73 (JA), Sergei_26 (AK), ShaggyRogers_85 (DJ), Shiba_73 (AW), Sloopyjoe_74 (AW), Soshi_80 (BI1), Spectropatronm_80 (BI1), Sporto_73 (AW), Sprinkle_75 (AW), StarLord_74 (AW), Stardom_79 (AM), Stayer_74 (AW), Suppi_29 (AK), SweetCrkHerbs_89 (DJ), TaidaOne_81 (BI1), Tairn4Wing_90 (DJ), Talon44_89 (DJ), Tanis_87 (DJ), TattModd_29 (AK), Temper16_26 (AK), TenaciousP_87 (DJ), Thiqqums_89 (BI4), TieDye_77 (BI1), Tonaltzin_91 (DJ), TonyStarch_80 (BI1), Tribby_82 (AM), Trufflozitus_88 (DJ), Untouchable_88 (DJ), Urla_26 (AK), Vallejo_29 (AK), Vardy_85 (DJ), Vulture_26 (AK), Wawa_29 (AK), Wayne_29 (AK), Wigberry_84 (BI5), WonderBoy_25 (AK), Xenomorph_75 (AM), YoshiYama_81 (AM), Yotsuba_76 (JA), Zeph_88 (DJ), Zorro_29 (AK),

Start 296:

- Found in 2 of 1197 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 1032
- Called 50.0% of time when present
- Phage (with cluster) where this start called: FireCastle_33 (EJ),

Start 297:

- Found in 124 of 1197 (10.4%) of genes in pham
- Manual Annotations of this start: 15 of 1032
- Called 12.9% of time when present
- Phage (with cluster) where this start called: Annihilus_54 (BI2), Bilo_53 (BI2), ClubPenguin_86 (BI7), Count_93 (EL), Ditters_52 (BI2), Doxi13_55 (BI2), GoblinVoyage_54 (BI2), HotFries_52 (BI2), Monse_53 (BI2), Moozy_53 (BI2), PherryCruz_53 (BI2), RavenPuff_54 (BI2), RosaAsantewaa_50 (BI2), Sangak_53 (BI2), Scap1_51 (BI2), SheRa_54 (BI2),

Start 298:

- Found in 24 of 1197 (2.0%) of genes in pham
- Manual Annotations of this start: 19 of 1032
- Called 91.7% of time when present
- Phage (with cluster) where this start called: Alove_33 (EJ), AyoTeo_35 (EJ), Benry_32 (EJ), Cicada_35 (EJ), Goodman_34 (EJ), Htur_33 (EJ), IndiRoo_33 (EJ), Jera_34 (EJ), Johann_34 (EJ), Labella_35 (EJ), Linayshia_33 (EJ), Milani_33 (EJ), Olympi_35 (EJ), PermaG_34 (EJ), Rasovi_33 (EJ), Rootkit7_33 (EJ), SBlackberry_33 (EJ), Sucha_30 (EJ), Theresita_31 (EA7), TurboVicky_33 (EJ), Typher_35 (EJ), Zanella_33 (EJ),

Start 299:

- Found in 101 of 1197 (8.4%) of genes in pham
- No Manual Annotations of this start.
- Called 1.0% of time when present
- Phage (with cluster) where this start called: Westerlin_69 (AU1),

Start 302:

- Found in 40 of 1197 (3.3%) of genes in pham
- Manual Annotations of this start: 13 of 1032
- Called 32.5% of time when present
- Phage (with cluster) where this start called: Araceli_42 (BH), Archimedes_37 (DA), Bogota_43 (BH), Crosby_42 (BH), Henoccus_42 (BH), Intolerant_41 (BH), JackieB_42 (BH), LazerLemon_42 (BH), Microdon_41 (BH), Sapō_34 (DA), Shynx_42 (BH), Stuff_42 (BH), UNTPL_44 (BH),

Start 303:

- Found in 35 of 1197 (2.9%) of genes in pham
- Manual Annotations of this start: 4 of 1032
- Called 11.4% of time when present
- Phage (with cluster) where this start called: Frizzle_34 (DA), Ghobes_35 (DA), Marky_44 (BH), Trogglehumper_76 (singleton),

Start 304:

- Found in 2 of 1197 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 1032

- Called 50.0% of time when present
- Phage (with cluster) where this start called: Yappy_96 (singleton),

Start 305:

- Found in 16 of 1197 (1.3%) of genes in pham
- Manual Annotations of this start: 1 of 1032
- Called 6.2% of time when present
- Phage (with cluster) where this start called: Luker_58 (CS3),

Start 306:

- Found in 87 of 1197 (7.3%) of genes in pham
- Manual Annotations of this start: 28 of 1032
- Called 34.5% of time when present
- Phage (with cluster) where this start called: Adgers_62 (CS2), Barbochs_57 (CS2), Beaver_62 (CS2), BigShaq_59 (CS2), BirksAndSocks_64 (CS2), Boneham_63 (CS2), Breezic_59 (CS2), Butterball_62 (CS2), CathyBurgh_59 (CS2), Ekhein_59 (CS2), Exiguo_58 (CS2), FelixAlejandro_64 (CS2), Flakey_58 (CS2), Gorko_58 (CS2), GourdThymes_59 (CS2), Hotorobo_59 (CS2), Jellybones_61 (CS2), John316_62 (CS2), Kelzog_61 (CS2), Lizzo_59 (CS2), Monty_58 (CS2), Msay19_64 (CS2), Poland_64 (CS2), RemRem_60 (CS2), RoyalG_59 (CS2), Sam12_58 (CS2), Sombrero_60 (CS2), Squibbles_58 (CS2), SteveFrench_58 (CS2), Worcestershire_59 (CS2),

Start 307:

- Found in 9 of 1197 (0.8%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Gmala1_55 (DF1), GordDuk1_59 (DF1), GordTnk2_60 (DF1),

Start 313:

- Found in 5 of 1197 (0.4%) of genes in pham
- Manual Annotations of this start: 5 of 1032
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gibbles_56 (CX), Kampe_58 (CX), Orchid_57 (CX), PatrickStar_58 (CX), RobinSparkles_61 (CX),

Start 314:

- Found in 3 of 1197 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 1032
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kavo_39 (EA11), Penta_37 (EA11), WestPM_37 (EA11),

Start 315:

- Found in 24 of 1197 (2.0%) of genes in pham
- Manual Annotations of this start: 2 of 1032
- Called 8.3% of time when present
- Phage (with cluster) where this start called: BouleyBill_39 (EA4), Kauala_39 (EA4),

Start 316:

- Found in 22 of 1197 (1.8%) of genes in pham
- Manual Annotations of this start: 5 of 1032

- Called 45.5% of time when present
- Phage (with cluster) where this start called: Acosta_42 (EA1), Camerico_63 (DF4), DocB7_048 (singleton), GMA3_58 (DF2), HavenFinLeoSun_42 (EA1), JasonD_43 (EA1), Jumbo_57 (DF3), Mbo2_52 (singleton), Reynauld_56 (CH), Srilaccoli3_51 (CH),

Start 317:

- Found in 13 of 1197 (1.1%) of genes in pham
- Manual Annotations of this start: 13 of 1032
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amavida_72 (AQ), Amigo_71 (AQ), Anansi_70 (AQ), Boersma_73 (AQ), Gorgeous_70 (AQ), Heylee_73 (AQ), Ichor_70 (AQ), Jaek_70 (AQ), Molivia_74 (AQ), Rings_71 (AQ), SorJuana_70 (AQ), Thunderclap_70 (AQ), Yeezus_70 (AQ),

Start 318:

- Found in 110 of 1197 (9.2%) of genes in pham
- Manual Annotations of this start: 13 of 1032
- Called 12.7% of time when present
- Phage (with cluster) where this start called: Alakazam_40 (EA5), Anandi_81 (AU4), Clock_40 (EA5), Giantsbane_77 (AU2), Ingrid_79 (AU3), Inked_79 (AU7), Loretta_75 (AU3), Mema_60 (EL), Nebulous_39 (EA5), Neferthena_41 (EA5), Shepard_78 (AU2), Tatanka_66 (AU1), Tipton_79 (AU2), Tokki_83 (AU2),

Start 319:

- Found in 166 of 1197 (13.9%) of genes in pham
- Manual Annotations of this start: 153 of 1032
- Called 97.0% of time when present
- Phage (with cluster) where this start called: Agente005_41 (EA1), AlexAdler_41 (EA1), Alyxandracam_41 (EA1), Antoinette_41 (EA1), AranulaLuti_40 (EA1), Asta_40 (EA1), Aubergine_40 (EA1), AxiPup_41 (EA1), Baines_40 (EA1), Balsa_40 (EA1), Bandik_41 (EA1), BaronJohn_40 (EA5), BeautPeep30_41 (EA1), BeeBee8_41 (EA1), Benjalauren_41 (EA1), BigRedClifford_41 (EA1), Blage_41 (EA1), BonesMcCoy_41 (EA1), Bonino_40 (EA1), Byron23_42 (EA1), CN1A_14 (singleton), Calix_40 (EA1), CaptainRex_40 (EA5), CarisSwetlik_43 (EA1), Chako_40 (EA1), Chamuel_40 (EA1), Cheeto1_42 (EA9), Chepli_42 (EA6), ChickenKing_40 (EA9), Christoph_40 (EA1), Clancy_40 (EA1), Convict_41 (EA1), CoraRita_40 (EA1), Dave_41 (EA1), Delphidian_41 (EA1), Den3_41 (EA1), Dothraki_41 (EA1), Duocatuli_40 (EA1), Endor_41 (EA1), Erla_40 (EA1), Espinosa_40 (EA1), Etna_40 (EA1), Etta_40 (EA1), Exploradora_40 (EA1), FarmerDoug_40 (EA1), Figueroism_41 (EA1), Fulton_40 (EA5), GaeCeo_42 (EA9), GardenB_40 (EA1), Garey24_41 (EA1), Gargoyle_41 (EA1), Gelo_40 (EA1), Gershwin_40 (EA1), GoingMerry_42 (EA1), GoneGirl_41 (EA1), Greenlvy_40 (EA5), Greys_41 (EA1), Gubbabump_40 (EA1), Hamlet_40 (EA1), HanSolo_40 (EA1), HankSprout_41 (EA1), Hasitha_40 (EA5), HerculesXL_40 (EA11), HungryHenry_40 (EA1), Ilzat_40 (EA1), Inventa_41 (EA1), Ioannes_41 (EA1), Janus167_40 (EA1), JasperRussell_40 (EA1), Jemerald_42 (EA6), Jenos_44 (EA1), Jerbirus_42 (EA1), JeriBeth_40 (EA1), Juicer_42 (EA6), Kale_40 (EA1), KannH_40 (EA1), KatChan_42 (EA6), KellyGreen_42 (EA1), KingJulien_40 (EA1), Klimt_41 (EA1), Knox_41 (EA1), Kouch_41 (EA1), Kurt1_41 (EA1), Leafus_40 (EA1), Librie_40 (EA5), LilTerminator_40 (EA5), Lovelyunicorn_41 (EA1), Ludgate_41 (EA1), Luna18_42 (EA6), MaeLinda_41 (EA1), ManRay_40 (EA1), Martin_42 (EA1), McGalleon_43 (EA1), Mercedes_36 (EA), Merida02_43 (EA1), MillyPhilly_41 (EA1), MonChoix_39 (EA1), MrWorldwide_41 (EA1), Nagem_41 (EA1), Nattles_40 (EA1),

NickSell_41 (EA1), Oats_40 (EA1), OldNelly_42 (EA1), Oxtober96_42 (EA1), Papafritta_40 (EA1), ParleG_41 (EA1), Peep_41 (EA1), Peppino_40 (EA1), Pherferi_41 (EA1), Phiderman_41 (EA1), Phireproof_41 (EA1), PhredFlintston_41 (EA1), Phriends_41 (EA1), Pocket_40 (EA1), PuppyEggo_41 (EA1), QuadZero_39 (EA5), Raccoon_40 (EA1), Rapheph_41 (EA1), Raptor_41 (EA1), Redfield_40 (EA1), Renzie_41 (EA1), Riyhil_41 (EA1), Robinson_41 (EA1), Rog141_40 (EA1), RosieMae_40 (EA1), SJay_41 (EA1), Schimmels22_39 (EA11), Schnapsidee_40 (EA1), Scissor2024_40 (EA11), Sedgewig_40 (EA1), ShaiHulud_41 (EA1), Shee_41 (EA1), SoilGremlin_42 (EA1), SolidSnake_43 (EA1), SonOfLevi_41 (EA1), Soror1_40 (EA1), Stanktossa_41 (EA1), StingRay_40 (EA1), StirfryIV_40 (EA1), Stormbreaker8_40 (EA1), Strathdee_41 (EA1), Superfresh_41 (EA1), Symere_40 (EA1), TatarkaPM_41 (EA1), Teagan_41 (EA1), TeddyBear_40 (EA1), Tenda_40 (EA1), Thompsone_41 (EA1), Thorongil_41 (EA1), TinSulphur_42 (EA1), Tinyman4_39 (EA11), TwoBits_39 (EA5), Velene_41 (EA1), Vispistious_41 (EA1), Wardwill_42 (EA5), WildNOut_41 (EA1), WilliamStrong_40 (EA6), Winzigespinne_40 (EA1), Zada_42 (EA1), Zayuliv_40 (EA5), Zepp_40 (EA5),

Start 322:

- Found in 8 of 1197 (0.7%) of genes in pham
- Manual Annotations of this start: 4 of 1032
- Called 50.0% of time when present
- Phage (with cluster) where this start called: HairyMan_37 (EA10), Morrigan_42 (EA6), PokyPuppy_58 (CS2), Schubert_39 (EA8),

Start 323:

- Found in 28 of 1197 (2.3%) of genes in pham
- Manual Annotations of this start: 8 of 1032
- Called 28.6% of time when present
- Phage (with cluster) where this start called: Bustleton_39 (EA4), Golden_39 (EA4), Koji_39 (EA4), Lucky3_39 (EA4), Phanita_41 (EA2), Pherbot_39 (EA4), PrincePhergus_39 (EA4), Sinatra_40 (EA4),

Start 327:

- Found in 113 of 1197 (9.4%) of genes in pham
- Manual Annotations of this start: 23 of 1032
- Called 22.1% of time when present
- Phage (with cluster) where this start called: Andromedas_40 (EA2), Carostasia_39 (EA10), Casey_37 (EA3), ChikPic_40 (EA2), ColaCorta_40 (EA2), Eleri_40 (EA2), Glamour_40 (EA2), Guetzie_40 (EA4), Jingles_40 (EA4), Juanyo_39 (EA10), MCubed_40 (EA2), Mandalorian_39 (EA10), MiniVolent_38 (EA10), Nucci_39 (EA10), PSirce_40 (EA2), Pajaza_37 (EA3), Pikmin_37 (EA3), Quartz_40 (EA10), Sansa_39 (EA2), Saratos_40 (EA2), Shamu_41 (EA2), SirVictor_40 (EA4), Xebius_40 (EA2), YuyuY_40 (EA10), Zenitsu_40 (EA2),

Start 330:

- Found in 96 of 1197 (8.0%) of genes in pham
- No Manual Annotations of this start.
- Called 3.1% of time when present
- Phage (with cluster) where this start called: Carsonalex_56 (CT), CocoaPuff_56 (CT), GTE2_44 (CT),

Start 333:

- Found in 102 of 1197 (8.5%) of genes in pham

- No Manual Annotations of this start.
- Called 2.9% of time when present
- Phage (with cluster) where this start called: Barbonzobean_83 (AU6), Demure_83 (DJ), Muglass_78 (AU6),

Start 341:

- Found in 64 of 1197 (5.3%) of genes in pham
- No Manual Annotations of this start.
- Called 1.6% of time when present
- Phage (with cluster) where this start called: GTE5_60 (CR1),

Start 342:

- Found in 30 of 1197 (2.5%) of genes in pham
- Manual Annotations of this start: 7 of 1032
- Called 26.7% of time when present
- Phage (with cluster) where this start called: Adelaide_46 (EP), Dina_47 (EP), Lederberg_45 (EP), PorkBelly_54 (FJ), SamW_45 (EP), StAB_50 (EP), Stiles_49 (EP), Troy_45 (EP),

Start 343:

- Found in 83 of 1197 (6.9%) of genes in pham
- Manual Annotations of this start: 1 of 1032
- Called 1.2% of time when present
- Phage (with cluster) where this start called: Finny_41 (EA2),

Start 348:

- Found in 4 of 1197 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 1032
- Called 25.0% of time when present
- Phage (with cluster) where this start called: LuckyBarnes_64 (singleton),

Start 375:

- Found in 70 of 1197 (5.8%) of genes in pham
- Manual Annotations of this start: 28 of 1032
- Called 41.4% of time when present
- Phage (with cluster) where this start called: Anamika_57 (CS3), BenoitCattle_59 (CS2), Berries_57 (CS3), Bianmat_57 (CS3), Chelms_59 (CS2), Crete_60 (CS2), Dakiti_60 (CS2), Damp_57 (CS3), Diabla_63 (CS2), GalacticEye_57 (CS3), Guillaume_57 (CS3), Hail2Pitt_56 (CS3), Harambe_57 (CS3), Hello_57 (CS3), Jams_57 (CS3), Jormungandr_57 (CS3), Kaseim_57 (CS3), Lahirium_57 (CS3), Lidong_57 (CS3), Linetti_59 (CS2), Minos_58 (CS3), MrWormie_57 (CS3), Neoevie_57 (CS3), Newt_58 (CS3), Nimi13_57 (CS3), PierreThree_58 (CS2), Shelley_57 (CS3), Sticker17_57 (CS3), Teal_57 (CS3),

Start 384:

- Found in 17 of 1197 (1.4%) of genes in pham
- Manual Annotations of this start: 1 of 1032
- Called 5.9% of time when present
- Phage (with cluster) where this start called: Pippin15_76 (JA),

Start 387:

- Found in 155 of 1197 (12.9%) of genes in pham
- Manual Annotations of this start: 1 of 1032

- Called 0.6% of time when present
- Phage (with cluster) where this start called: Ixel_41 (EA11),

Start 388:

- Found in 228 of 1197 (19.0%) of genes in pham
- No Manual Annotations of this start.
- Called 0.4% of time when present
- Phage (with cluster) where this start called: Spain_74 (AW),

Start 395:

- Found in 166 of 1197 (13.9%) of genes in pham
- Manual Annotations of this start: 1 of 1032
- Called 0.6% of time when present
- Phage (with cluster) where this start called: Sweetclover_73 (JA),

Start 396:

- Found in 1 of 1197 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 1032
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Shocker_54 (singleton),

Start 405:

- Found in 197 of 1197 (16.5%) of genes in pham
- No Manual Annotations of this start.
- Called 1.0% of time when present
- Phage (with cluster) where this start called: PhillyPhantom_40 (EA1), RenegadeRaider_42 (EA4),

Start 408:

- Found in 233 of 1197 (19.5%) of genes in pham
- Manual Annotations of this start: 1 of 1032
- Called 0.4% of time when present
- Phage (with cluster) where this start called: Mayweather_61 (CT),

Summary by clusters:

There are 97 clusters represented in this pham: BM, BN, BH, singleton, BR, JD, JA, GG, GB, EA11, EA10, ED3, BI4, ED1, EA9, CS4, CS1, CS3, CS2, EL, EN, EJ, ED, BI3, EF, EA, EP, CR2, CR3, CR1, CR6, CR7, CR4, CR5, H2, H1, DF4, GD1, GD2, GD3, GD4, FR, ED2, EA1, FC, FI, FJ, FK, FM, BI5, BI2, DF1, DF3, DF2, AU1, AU3, AU2, AU5, AU4, AU7, AU6, EA6, CH, CC, DG2, DG1, UNK, CT, DJ, DK, DA, DV, R, DS, AC, AB, AE, AK, AM, AL, AQ, EA8, AR, U, AW, AV, BI6, BI7, EA3, EA2, EA5, EA4, EA7, BI1, CX, D2, D1,

Info for manual annotations of cluster AB:

- Start number 250 was manually annotated 2 times for cluster AB.
- Start number 282 was manually annotated 2 times for cluster AB.

Info for manual annotations of cluster AC:

- Start number 95 was manually annotated 3 times for cluster AC.
- Start number 103 was manually annotated 1 time for cluster AC.

Info for manual annotations of cluster AE:

- Start number 65 was manually annotated 3 times for cluster AE.

Info for manual annotations of cluster AK:

- Start number 295 was manually annotated 73 times for cluster AK.

Info for manual annotations of cluster AL:

- Start number 185 was manually annotated 9 times for cluster AL.

Info for manual annotations of cluster AM:

- Start number 295 was manually annotated 21 times for cluster AM.

Info for manual annotations of cluster AQ:

- Start number 317 was manually annotated 13 times for cluster AQ.

Info for manual annotations of cluster AR:

- Start number 158 was manually annotated 18 times for cluster AR.
- Start number 160 was manually annotated 1 time for cluster AR.

Info for manual annotations of cluster AU1:

- Start number 294 was manually annotated 18 times for cluster AU1.
- Start number 318 was manually annotated 1 time for cluster AU1.

Info for manual annotations of cluster AU2:

- Start number 294 was manually annotated 4 times for cluster AU2.
- Start number 318 was manually annotated 4 times for cluster AU2.

Info for manual annotations of cluster AU3:

- Start number 318 was manually annotated 2 times for cluster AU3.

Info for manual annotations of cluster AU4:

- Start number 294 was manually annotated 2 times for cluster AU4.
- Start number 318 was manually annotated 1 time for cluster AU4.

Info for manual annotations of cluster AU5:

- Start number 294 was manually annotated 2 times for cluster AU5.

Info for manual annotations of cluster AU6:

- Start number 294 was manually annotated 14 times for cluster AU6.

Info for manual annotations of cluster AU7:

- Start number 294 was manually annotated 1 time for cluster AU7.
- Start number 318 was manually annotated 1 time for cluster AU7.

Info for manual annotations of cluster AV:

- Start number 50 was manually annotated 1 time for cluster AV.
- Start number 94 was manually annotated 4 times for cluster AV.
- Start number 130 was manually annotated 2 times for cluster AV.
- Start number 203 was manually annotated 1 time for cluster AV.

Info for manual annotations of cluster AW:

- Start number 295 was manually annotated 19 times for cluster AW.

Info for manual annotations of cluster BH:

- Start number 302 was manually annotated 11 times for cluster BH.
- Start number 303 was manually annotated 1 time for cluster BH.

Info for manual annotations of cluster BI1:

- Start number 295 was manually annotated 24 times for cluster BI1.

Info for manual annotations of cluster BI2:

- Start number 297 was manually annotated 13 times for cluster BI2.

Info for manual annotations of cluster BI3:

- Start number 295 was manually annotated 1 time for cluster BI3.

Info for manual annotations of cluster BI4:

- Start number 295 was manually annotated 5 times for cluster BI4.

Info for manual annotations of cluster BI5:

- Start number 295 was manually annotated 2 times for cluster BI5.

Info for manual annotations of cluster BI6:

- Start number 295 was manually annotated 1 time for cluster BI6.

Info for manual annotations of cluster BI7:

- Start number 297 was manually annotated 1 time for cluster BI7.

Info for manual annotations of cluster BM:

- Start number 255 was manually annotated 9 times for cluster BM.

Info for manual annotations of cluster BN:

- Start number 53 was manually annotated 1 time for cluster BN.
- Start number 61 was manually annotated 8 times for cluster BN.

Info for manual annotations of cluster BR:

- Start number 260 was manually annotated 2 times for cluster BR.

Info for manual annotations of cluster CH:

- Start number 316 was manually annotated 1 time for cluster CH.

Info for manual annotations of cluster CR1:

- Start number 35 was manually annotated 3 times for cluster CR1.

Info for manual annotations of cluster CR2:

- Start number 35 was manually annotated 18 times for cluster CR2.
- Start number 89 was manually annotated 2 times for cluster CR2.
- Start number 98 was manually annotated 1 time for cluster CR2.

Info for manual annotations of cluster CR3:

- Start number 35 was manually annotated 6 times for cluster CR3.

Info for manual annotations of cluster CR4:

- Start number 35 was manually annotated 5 times for cluster CR4.
- Start number 120 was manually annotated 3 times for cluster CR4.

Info for manual annotations of cluster CR5:

- Start number 35 was manually annotated 3 times for cluster CR5.

Info for manual annotations of cluster CR6:

- Start number 36 was manually annotated 6 times for cluster CR6.

Info for manual annotations of cluster CR7:

- Start number 37 was manually annotated 1 time for cluster CR7.

Info for manual annotations of cluster CS1:

- Start number 223 was manually annotated 3 times for cluster CS1.

Info for manual annotations of cluster CS2:

- Start number 290 was manually annotated 1 time for cluster CS2.
- Start number 306 was manually annotated 28 times for cluster CS2.
- Start number 322 was manually annotated 1 time for cluster CS2.
- Start number 375 was manually annotated 6 times for cluster CS2.

Info for manual annotations of cluster CS3:

- Start number 290 was manually annotated 2 times for cluster CS3.
- Start number 305 was manually annotated 1 time for cluster CS3.
- Start number 375 was manually annotated 22 times for cluster CS3.

Info for manual annotations of cluster CS4:

- Start number 206 was manually annotated 9 times for cluster CS4.
- Start number 209 was manually annotated 2 times for cluster CS4.
- Start number 273 was manually annotated 1 time for cluster CS4.

Info for manual annotations of cluster CT:

- Start number 277 was manually annotated 49 times for cluster CT.
- Start number 278 was manually annotated 3 times for cluster CT.
- Start number 280 was manually annotated 10 times for cluster CT.
- Start number 408 was manually annotated 1 time for cluster CT.

Info for manual annotations of cluster CX:

- Start number 313 was manually annotated 5 times for cluster CX.

Info for manual annotations of cluster D1:

- Start number 46 was manually annotated 1 time for cluster D1.
- Start number 65 was manually annotated 21 times for cluster D1.

Info for manual annotations of cluster D2:

- Start number 59 was manually annotated 1 time for cluster D2.

Info for manual annotations of cluster DA:

- Start number 302 was manually annotated 2 times for cluster DA.
- Start number 303 was manually annotated 2 times for cluster DA.

Info for manual annotations of cluster DF3:

- Start number 316 was manually annotated 1 time for cluster DF3.

Info for manual annotations of cluster DF4:

- Start number 316 was manually annotated 1 time for cluster DF4.

Info for manual annotations of cluster DG1:

- Start number 74 was manually annotated 8 times for cluster DG1.

Info for manual annotations of cluster DG2:

- Start number 71 was manually annotated 1 time for cluster DG2.

Info for manual annotations of cluster DJ:

- Start number 295 was manually annotated 58 times for cluster DJ.

Info for manual annotations of cluster DK:

- Start number 75 was manually annotated 2 times for cluster DK.

Info for manual annotations of cluster DS:

- Start number 70 was manually annotated 5 times for cluster DS.

Info for manual annotations of cluster DV:

- Start number 55 was manually annotated 13 times for cluster DV.
- Start number 58 was manually annotated 23 times for cluster DV.
- Start number 60 was manually annotated 1 time for cluster DV.
- Start number 76 was manually annotated 2 times for cluster DV.

Info for manual annotations of cluster EA:

- Start number 319 was manually annotated 1 time for cluster EA.

Info for manual annotations of cluster EA1:

- Start number 243 was manually annotated 1 time for cluster EA1.
- Start number 316 was manually annotated 2 times for cluster EA1.
- Start number 319 was manually annotated 128 times for cluster EA1.

Info for manual annotations of cluster EA10:

- Start number 322 was manually annotated 1 time for cluster EA10.
- Start number 327 was manually annotated 6 times for cluster EA10.

Info for manual annotations of cluster EA11:

- Start number 314 was manually annotated 1 time for cluster EA11.
- Start number 319 was manually annotated 3 times for cluster EA11.
- Start number 387 was manually annotated 1 time for cluster EA11.

Info for manual annotations of cluster EA2:

- Start number 323 was manually annotated 1 time for cluster EA2.
- Start number 327 was manually annotated 11 times for cluster EA2.
- Start number 343 was manually annotated 1 time for cluster EA2.

Info for manual annotations of cluster EA3:

- Start number 327 was manually annotated 3 times for cluster EA3.

Info for manual annotations of cluster EA4:

- Start number 315 was manually annotated 2 times for cluster EA4.
- Start number 323 was manually annotated 7 times for cluster EA4.
- Start number 327 was manually annotated 3 times for cluster EA4.

Info for manual annotations of cluster EA5:

- Start number 318 was manually annotated 4 times for cluster EA5.
- Start number 319 was manually annotated 12 times for cluster EA5.

Info for manual annotations of cluster EA6:

- Start number 319 was manually annotated 6 times for cluster EA6.
- Start number 322 was manually annotated 1 time for cluster EA6.

Info for manual annotations of cluster EA7:

- Start number 298 was manually annotated 1 time for cluster EA7.

Info for manual annotations of cluster EA8:

- Start number 322 was manually annotated 1 time for cluster EA8.

Info for manual annotations of cluster EA9:

- Start number 319 was manually annotated 3 times for cluster EA9.

Info for manual annotations of cluster ED:

- Start number 294 was manually annotated 1 time for cluster ED.

Info for manual annotations of cluster ED1:

- Start number 292 was manually annotated 13 times for cluster ED1.

Info for manual annotations of cluster ED2:

- Start number 292 was manually annotated 15 times for cluster ED2.

Info for manual annotations of cluster EF:

- Start number 30 was manually annotated 1 time for cluster EF.
- Start number 68 was manually annotated 35 times for cluster EF.
- Start number 72 was manually annotated 6 times for cluster EF.

Info for manual annotations of cluster EJ:

- Start number 296 was manually annotated 1 time for cluster EJ.
- Start number 298 was manually annotated 18 times for cluster EJ.

Info for manual annotations of cluster EL:

- Start number 295 was manually annotated 3 times for cluster EL.
- Start number 297 was manually annotated 1 time for cluster EL.

Info for manual annotations of cluster EN:

- Start number 74 was manually annotated 8 times for cluster EN.

Info for manual annotations of cluster EP:

- Start number 342 was manually annotated 7 times for cluster EP.

Info for manual annotations of cluster FC:

- Start number 71 was manually annotated 12 times for cluster FC.

Info for manual annotations of cluster FK:

- Start number 294 was manually annotated 3 times for cluster FK.

Info for manual annotations of cluster FM:

- Start number 107 was manually annotated 2 times for cluster FM.

Info for manual annotations of cluster FR:

- Start number 75 was manually annotated 11 times for cluster FR.

Info for manual annotations of cluster GB:

- Start number 293 was manually annotated 5 times for cluster GB.

Info for manual annotations of cluster GD1:

- Start number 75 was manually annotated 3 times for cluster GD1.

Info for manual annotations of cluster GD2:

- Start number 75 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:

- Start number 67 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:

- Start number 75 was manually annotated 1 time for cluster GD4.

Info for manual annotations of cluster GG:

- Start number 272 was manually annotated 1 time for cluster GG.
- Start number 275 was manually annotated 1 time for cluster GG.

Info for manual annotations of cluster H1:

- Start number 51 was manually annotated 11 times for cluster H1.

Info for manual annotations of cluster H2:

- Start number 47 was manually annotated 1 time for cluster H2.
- Start number 49 was manually annotated 1 time for cluster H2.

Info for manual annotations of cluster JA:

- Start number 295 was manually annotated 6 times for cluster JA.
- Start number 384 was manually annotated 1 time for cluster JA.
- Start number 395 was manually annotated 1 time for cluster JA.

Info for manual annotations of cluster JD:

- Start number 242 was manually annotated 2 times for cluster JD.

Info for manual annotations of cluster R:

- Start number 183 was manually annotated 10 times for cluster R.

Info for manual annotations of cluster U:

- Start number 54 was manually annotated 3 times for cluster U.

Gene Information:

Gene: 8UZL_50 Start: 38971, Stop: 37460, Start Num: 250

Candidate Starts for 8UZL_50:

(Start: 250 @38971 has 2 MA's), (279, 38935), (329, 38845), (330, 38842), (355, 38794), (394, 38725), (455, 38611), (578, 38482), (596, 38431), (599, 38425), (602, 38419), (615, 38395), (649, 38341), (772, 38200), (773, 38197), (793, 38140), (815, 38068), (817, 38065), (940, 37870), (964, 37825), (1009, 37720), (1036, 37660), (1131, 37492), (1146, 37471),

Gene: A3Wally_114 Start: 79188, Stop: 77338, Start Num: 75

Candidate Starts for A3Wally_114:

(42, 79257), (43, 79251), (Start: 75 @79188 has 19 MA's), (88, 79143), (90, 79131), (139, 79005), (165, 78942), (222, 78867), (Start: 292 @78759 has 28 MA's), (301, 78741), (335, 78672), (350, 78645), (430, 78585), (519, 78420), (596, 78276), (643, 78189), (665, 78162), (688, 78126), (693, 78117), (730, 78060), (777, 78054), (793, 78009), (797, 77997), (808, 77976), (815, 77952), (839, 77916), (884, 77871), (942, 77787), (944, 77784), (947, 77778), (976, 77715), (1023, 77613), (1063, 77526), (1084, 77484), (1116, 77433),

Gene: ASegato_82 Start: 49650, Stop: 48130, Start Num: 292

Candidate Starts for ASegato_82:

(265, 49683), (Start: 292 @49650 has 28 MA's), (Start: 315 @49599 has 2 MA's), (383, 49491), (412, 49425), (449, 49359), (529, 49242), (541, 49221), (578, 49164), (590, 49131), (592, 49128), (623, 49065), (653, 49014), (661, 49005), (665, 48996), (668, 48990), (686, 48966), (697, 48942), (723, 48903), (745, 48888), (781, 48837), (787, 48819), (821, 48726), (840, 48699), (865, 48654), (962, 48468), (1019, 48360), (1032, 48330), (1057, 48285), (1077, 48234), (1120, 48171),

Gene: ASerpRocky_55 Start: 52672, Stop: 51098, Start Num: 273

Candidate Starts for ASerpRocky_55:

(Start: 206 @52804 has 9 MA's), (Start: 209 @52792 has 2 MA's), (259, 52693), (Start: 273 @52672 has 1 MA's), (Start: 316 @52606 has 5 MA's), (381, 52507), (Start: 395 @52471 has 1 MA's), (Start: 408 @52447 has 1 MA's), (412, 52438), (416, 52429), (443, 52381), (453, 52357), (472, 52315), (480, 52300), (498, 52225), (521, 52165), (523, 52162), (564, 52096), (568, 52093), (583, 52057), (584, 52054), (595, 52027), (601, 52015), (621, 51967), (635, 51934), (648, 51910), (665, 51886), (679, 51862), (714, 51796), (776, 51697), (811, 51598), (856, 51565), (857, 51562), (951, 51445), (953, 51442), (982, 51385), (990, 51367), (1048, 51250), (1050, 51247), (1057, 51235), (1109, 51136), (1125, 51115),

Gene: Acai_70 Start: 47896, Stop: 49131, Start Num: 294

Candidate Starts for Acai_70:

(Start: 292 @47890 has 28 MA's), (Start: 294 @47896 has 45 MA's), (299, 47905), (312, 47935), (Start: 318 @47944 has 13 MA's), (358, 48022), (388, 48070), (455, 48202), (518, 48274), (578, 48337), (587, 48367), (622, 48436), (677, 48529), (680, 48535), (700, 48571), (781, 48673), (992, 48853), (998, 48859), (1036, 48934), (1057, 48967), (1060, 48979), (1061, 48982), (1096, 49051), (1107, 49069),

Gene: Acosta_42 Start: 31547, Stop: 30141, Start Num: 316

Candidate Starts for Acosta_42:

(186, 31790), (Start: 255 @31649 has 9 MA's), (256, 31646), (258, 31643), (Start: 316 @31547 has 5 MA's), (405, 31400), (Start: 408 @31394 has 1 MA's), (471, 31277), (511, 31250), (547, 31190), (572, 31163), (577, 31160), (578, 31157), (622, 31064), (644, 31022), (777, 30860), (781, 30851), (790, 30830), (794, 30824), (857, 30731), (874, 30695), (883, 30671), (929, 30596), (982, 30482), (1012, 30422), (1023, 30398), (1024, 30392), (1031, 30380), (1093, 30257), (1109, 30230), (1128, 30203),

Gene: Adat_47 Start: 40998, Stop: 38749, Start Num: 94

Candidate Starts for Adat_47:

(Start: 94 @40998 has 4 MA's), (112, 40965), (132, 40881), (211, 40692), (215, 40680), (264, 40590), (285, 40563), (Start: 297 @40542 has 15 MA's), (307, 40515), (310, 40512), (Start: 318 @40500 has 13 MA's), (337, 40461), (413, 40323), (444, 40260), (451, 40245), (456, 40230), (464, 40212), (471, 40200), (476, 40188), (482, 40167), (488, 40119), (489, 40116), (493, 40092), (506, 40050), (509, 40044), (559, 39954), (577, 39930), (622, 39807), (650, 39753), (713, 39642), (728, 39621), (734, 39606), (753, 39546), (784, 39471), (785, 39468), (889, 39303), (958, 39183), (1036, 38985), (1042, 38979), (1068, 38919), (1099, 38856), (1121, 38826), (1137, 38802), (1141, 38796),

Gene: AddiRose_72 Start: 45664, Stop: 46920, Start Num: 295

Candidate Starts for AddiRose_72:

(Start: 295 @45664 has 213 MA's), (Start: 327 @45724 has 23 MA's), (328, 45727), (333, 45739), (347, 45766), (370, 45802), (519, 46039), (578, 46099), (580, 46102), (587, 46129), (645, 46243), (655, 46255), (673, 46285), (677, 46291), (700, 46333), (722, 46366), (776, 46423), (785, 46447), (796, 46480), (799, 46489), (817, 46543), (865, 46567), (1036, 46693), (1038, 46696), (1047, 46708), (1068, 46759),

Gene: Adelaide_46 Start: 37262, Stop: 38638, Start Num: 342

Candidate Starts for Adelaide_46:

(Start: 342 @37262 has 7 MA's), (Start: 387 @37331 has 1 MA's), (394, 37349), (444, 37442), (471, 37502), (500, 37508), (502, 37511), (574, 37631), (582, 37649), (642, 37766), (755, 37904), (780, 37943), (793, 37976), (795, 37982), (800, 37997), (811, 38036), (864, 38096), (875, 38120), (897, 38156), (940, 38225), (944, 38231), (982, 38312), (1026, 38408), (1033, 38420), (1039, 38432), (1064, 38489), (1067, 38495), (1073, 38507), (1091, 38537), (1125, 38588),

Gene: Adgers_62 Start: 52192, Stop: 50660, Start Num: 306

Candidate Starts for Adgers_62:

(177, 52447), (201, 52396), (248, 52291), (265, 52261), (Start: 290 @52228 has 3 MA's), (Start: 295 @52219 has 213 MA's), (Start: 306 @52192 has 28 MA's), (Start: 395 @52024 has 1 MA's), (416, 51982), (426, 51964), (443, 51934), (449, 51922), (453, 51910), (455, 51904), (464, 51883), (525, 51715), (580, 51628), (583, 51613), (587, 51601), (601, 51571), (665, 51442), (690, 51400), (698, 51382), (700, 51379), (705, 51370), (714, 51352), (776, 51265), (857, 51130), (865, 51115), (883, 51094), (951, 51013), (953, 51010), (982, 50953), (985, 50947), (990, 50935), (1016, 50884), (1025, 50860), (1048, 50821), (1055, 50809), (1057, 50806), (1099, 50713), (1109, 50698),

Gene: Adjutor_52 Start: 39669, Stop: 41612, Start Num: 65

Candidate Starts for Adjutor_52:

(Start: 65 @39669 has 24 MA's), (80, 39696), (104, 39768), (121, 39822), (140, 39882), (146, 39900), (151, 39909), (174, 39960), (193, 40002), (219, 40038), (269, 40125), (329, 40218), (335, 40233), (347, 40254), (414, 40356), (438, 40389), (450, 40413), (512, 40473), (562, 40560), (596, 40635), (652, 40725), (688, 40776), (690, 40779), (764, 40869), (777, 40887), (788, 40920), (810, 40974), (814, 40986), (824, 41004), (865, 41067), (939, 41151), (992, 41268), (1009, 41316), (1040, 41379), (1078, 41463),

Gene: Aesir_39 Start: 25591, Stop: 27498, Start Num: 68

Candidate Starts for Aesir_39:

(17, 25417), (Start: 68 @25591 has 36 MA's), (93, 25654), (106, 25675), (122, 25729), (176, 25864), (199, 25906), (229, 25951), (335, 26125), (339, 26134), (394, 26224), (415, 26266), (422, 26281), (543, 26467), (620, 26602), (624, 26614), (650, 26647), (709, 26740), (777, 26776), (811, 26866), (824, 26893), (1009, 27202), (1010, 27205), (1037, 27265), (1080, 27355), (1097, 27385), (1126, 27427), (1163, 27478),

Gene: Aflac_87 Start: 55099, Stop: 56313, Start Num: 295

Candidate Starts for Aflac_87:

(Start: 295 @55099 has 213 MA's), (299, 55105), (Start: 327 @55159 has 23 MA's), (328, 55162), (333, 55174), (347, 55201), (359, 55225), (392, 55267), (413, 55309), (429, 55336), (433, 55342), (452, 55381), (518, 55459), (519, 55462), (578, 55522), (623, 55624), (639, 55654), (671, 55705), (677, 55714), (698, 55753), (717, 55780), (720, 55786), (725, 55792), (765, 55828), (776, 55846), (779, 55855), (781, 55858), (784, 55867), (798, 55909), (807, 55936), (814, 55960), (865, 55990), (1018, 56077), (1068, 56185), (1096, 56236), (1115, 56263), (1138, 56296),

Gene: Agamotto_38 Start: 29155, Stop: 27347, Start Num: 75

Candidate Starts for Agamotto_38:

(48, 29200), (Start: 75 @29155 has 19 MA's), (90, 29095), (118, 29032), (174, 28894), (241, 28777), (248, 28765), (Start: 302 @28681 has 13 MA's), (438, 28543), (530, 28357), (583, 28264), (590, 28243), (693, 28072), (700, 28057), (777, 28009), (814, 27940), (818, 27934), (828, 27919), (875, 27880), (878, 27871), (888, 27853), (919, 27817), (920, 27814), (933, 27796), (940, 27778), (942, 27775), (1013, 27622), (1027, 27589), (1044, 27562), (1056, 27541), (1063, 27514), (1114, 27424), (1149, 27373),

Gene: Agatha_53 Start: 38842, Stop: 37364, Start Num: 277

Candidate Starts for Agatha_53:

(Start: 277 @38842 has 49 MA's), (328, 38755), (330, 38749), (388, 38647), (453, 38524), (454, 38521), (596, 38338), (599, 38332), (602, 38326), (649, 38248), (740, 38134), (772, 38107), (781, 38083), (801, 38023), (815, 37978), (830, 37957), (867, 37918), (875, 37900), (939, 37783), (964, 37735), (966, 37732), (971, 37717), (1013, 37621), (1023, 37600), (1036, 37570),

Gene: Agente005_41 Start: 31381, Stop: 29990, Start Num: 319

Candidate Starts for Agente005_41:

(Start: 319 @31381 has 153 MA's), (405, 31234), (Start: 408 @31228 has 1 MA's), (410, 31225), (471, 31111), (547, 31024), (572, 30997), (577, 30994), (622, 30898), (644, 30856), (781, 30685), (790, 30664), (801, 30637), (817, 30589), (874, 30529), (982, 30316), (991, 30298), (1023, 30232), (1024, 30226), (1031, 30214), (1077, 30118), (1109, 30064), (1112, 30061), (1151, 30007),

Gene: AikoCarson_54 Start: 39107, Stop: 37629, Start Num: 277

Candidate Starts for AikoCarson_54:

(Start: 277 @39107 has 49 MA's), (328, 39020), (330, 39014), (388, 38912), (443, 38813), (451, 38795), (453, 38789), (456, 38780), (577, 38657), (596, 38603), (599, 38597), (602, 38591), (649, 38513), (740, 38399), (772, 38372), (781, 38348), (794, 38309), (808, 38267), (815, 38243), (830, 38222), (875, 38165), (939, 38048), (964, 38000), (966, 37997), (971, 37982), (1013, 37886), (1023, 37865), (1036, 37835), (1055, 37805), (1131, 37667),

Gene: Aikoy_65 Start: 45786, Stop: 47714, Start Num: 65

Candidate Starts for Aikoy_65:

(Start: 65 @45786 has 24 MA's), (79, 45807), (87, 45837), (Start: 120 @45936 has 3 MA's), (140, 45999), (172, 46071), (175, 46080), (199, 46128), (335, 46344), (347, 46365), (360, 46386), (363, 46389), (378, 46401), (390, 46428), (459, 46551), (512, 46587), (548, 46659), (555, 46668), (580, 46701), (601, 46758), (606, 46770), (652, 46839), (660, 46848), (672, 46866), (688, 46890), (773, 46986), (777, 46998), (788, 47031), (807, 47073), (841, 47136), (922, 47241), (1024, 47457), (1037, 47481), (1040, 47484), (1060, 47526), (1071, 47556), (1087, 47580), (1166, 47697),

Gene: Ajin_42 Start: 26641, Stop: 28575, Start Num: 72

Candidate Starts for Ajin_42:

(13, 26401), (Start: 30 @26545 has 1 MA's), (66, 26635), (Start: 72 @26641 has 6 MA's), (122, 26788), (127, 26806), (129, 26815), (199, 26965), (283, 27091), (335, 27181), (339, 27190), (394, 27280), (415, 27322), (431, 27352), (519, 27484), (624, 27670), (637, 27688), (650, 27703), (688, 27760), (726, 27820), (798, 27892), (881, 28030), (926, 28096), (940, 28126), (977, 28204), (1010, 28282),

(1037, 28342), (1059, 28381), (1080, 28432), (1092, 28450), (1164, 28558),

Gene: AlainaMarie_87 Start: 55154, Stop: 56368, Start Num: 295

Candidate Starts for AlainaMarie_87:

(Start: 295 @55154 has 213 MA's), (299, 55160), (Start: 327 @55214 has 23 MA's), (333, 55229), (347, 55256), (349, 55259), (359, 55280), (392, 55322), (413, 55364), (429, 55391), (433, 55397), (452, 55436), (518, 55514), (519, 55517), (578, 55577), (623, 55679), (657, 55736), (673, 55763), (677, 55769), (695, 55799), (698, 55808), (700, 55811), (717, 55835), (725, 55847), (760, 55874), (765, 55883), (776, 55901), (779, 55910), (781, 55913), (784, 55922), (788, 55937), (795, 55955), (799, 55967), (807, 55991), (814, 56015), (865, 56045), (910, 56060), (1018, 56132), (1068, 56240), (1096, 56291), (1115, 56318), (1138, 56351),

Gene: Alakazam_40 Start: 30804, Stop: 29374, Start Num: 318

Candidate Starts for Alakazam_40:

(Start: 318 @30804 has 13 MA's), (336, 30771), (Start: 408 @30651 has 1 MA's), (410, 30648), (443, 30588), (464, 30537), (504, 30516), (508, 30504), (572, 30411), (577, 30408), (639, 30276), (727, 30153), (781, 30096), (790, 30075), (801, 30048), (805, 30036), (811, 30015), (848, 29958), (857, 29937), (874, 29901), (878, 29889), (903, 29847), (917, 29820), (927, 29805), (960, 29742), (967, 29730), (1009, 29634), (1013, 29625), (1020, 29610), (1023, 29604), (1024, 29598), (1082, 29481), (1093, 29463), (1099, 29451), (1128, 29409),

Gene: Albanese_29 Start: 22144, Stop: 23535, Start Num: 295

Candidate Starts for Albanese_29:

(Start: 295 @22144 has 213 MA's), (Start: 343 @22231 has 1 MA's), (Start: 387 @22303 has 1 MA's), (388, 22306), (418, 22369), (419, 22372), (429, 22390), (433, 22396), (452, 22423), (512, 22480), (540, 22531), (580, 22570), (590, 22606), (599, 22624), (610, 22660), (620, 22681), (627, 22699), (650, 22732), (681, 22771), (704, 22813), (719, 22840), (742, 22864), (775, 22900), (777, 22906), (788, 22939), (794, 22954), (797, 22963), (817, 23008), (865, 23041), (866, 23044), (944, 23128), (953, 23149), (961, 23161), (969, 23179), (1009, 23269), (1019, 23290), (1020, 23293), (1031, 23317), (1034, 23326), (1072, 23413), (1140, 23503), (1156, 23527),

Gene: Aledel_26 Start: 21745, Stop: 23139, Start Num: 295

Candidate Starts for Aledel_26:

(Start: 295 @21745 has 213 MA's), (328, 21802), (379, 21889), (Start: 387 @21907 has 1 MA's), (388, 21910), (429, 21994), (452, 22027), (509, 22078), (512, 22084), (547, 22144), (580, 22174), (590, 22210), (599, 22228), (620, 22285), (627, 22303), (630, 22309), (650, 22336), (704, 22417), (719, 22444), (742, 22468), (761, 22483), (777, 22510), (788, 22543), (794, 22558), (924, 22690), (940, 22726), (953, 22753), (961, 22765), (969, 22783), (1009, 22873), (1012, 22879), (1019, 22894), (1020, 22897), (1034, 22930), (1063, 22990), (1072, 23017), (1117, 23074), (1140, 23107), (1156, 23131),

Gene: Alephilan_60 Start: 40725, Stop: 42638, Start Num: 58

Candidate Starts for Alephilan_60:

(18, 40599), (21, 40608), (24, 40620), (33, 40653), (Start: 55 @40722 has 13 MA's), (Start: 58 @40725 has 23 MA's), (Start: 76 @40737 has 2 MA's), (Start: 89 @40785 has 2 MA's), (Start: 103 @40818 has 1 MA's), (155, 40977), (172, 41004), (175, 41013), (219, 41085), (Start: 295 @41202 has 213 MA's), (Start: 297 @41205 has 15 MA's), (331, 41268), (346, 41295), (Start: 387 @41358 has 1 MA's), (401, 41385), (509, 41514), (519, 41538), (542, 41580), (577, 41628), (583, 41649), (590, 41670), (620, 41727), (627, 41745), (652, 41781), (679, 41823), (716, 41883), (788, 41979), (790, 41982), (951, 42210), (992, 42300), (1009, 42336), (1012, 42342), (1037, 42396), (1059, 42435), (1112, 42537), (1123, 42552), (1137, 42573),

Gene: AlexAdler_41 Start: 31109, Stop: 29721, Start Num: 319

Candidate Starts for AlexAdler_41:

(197, 31331), (Start: 319 @31109 has 153 MA's), (405, 30965), (Start: 408 @30959 has 1 MA's), (410, 30956), (471, 30842), (511, 30815), (547, 30755), (572, 30728), (577, 30725), (622, 30629), (644, 30587), (781, 30416), (790, 30395), (797, 30380), (801, 30368), (817, 30320), (874, 30260), (927, 30164), (960, 30101), (982, 30047), (1023, 29963), (1024, 29957), (1031, 29945), (1077, 29849), (1109, 29795), (1112, 29792), (1128, 29768),

Gene: Alleb_76 Start: 48902, Stop: 47379, Start Num: 292

Candidate Starts for Alleb_76:

(246, 48968), (262, 48941), (Start: 292 @48902 has 28 MA's), (374, 48752), (383, 48743), (429, 48647), (448, 48614), (457, 48587), (511, 48533), (535, 48488), (537, 48485), (590, 48380), (592, 48377), (661, 48254), (665, 48245), (674, 48233), (707, 48179), (781, 48086), (819, 47978), (840, 47948), (844, 47942), (846, 47939), (848, 47936), (865, 47903), (869, 47891), (936, 47765), (962, 47717), (1010, 47627), (1019, 47609), (1042, 47561), (1105, 47438),

Gene: Aloe25_89 Start: 54312, Stop: 55526, Start Num: 295

Candidate Starts for Aloe25_89:

(Start: 295 @54312 has 213 MA's), (299, 54318), (Start: 327 @54372 has 23 MA's), (328, 54375), (333, 54387), (358, 54435), (359, 54438), (392, 54480), (413, 54522), (433, 54555), (452, 54594), (518, 54672), (519, 54675), (578, 54735), (669, 54915), (671, 54918), (673, 54921), (677, 54927), (698, 54966), (717, 54993), (725, 55005), (760, 55032), (765, 55041), (776, 55059), (779, 55068), (781, 55071), (784, 55080), (799, 55125), (807, 55149), (814, 55173), (1009, 55272), (1012, 55278), (1018, 55290), (1036, 55332), (1068, 55398), (1079, 55419), (1096, 55449), (1138, 55509),

Gene: Alove_33 Start: 23258, Stop: 24685, Start Num: 298

Candidate Starts for Alove_33:

(270, 23216), (Start: 298 @23258 has 19 MA's), (464, 23576), (583, 23723), (590, 23744), (740, 24011), (777, 24059), (785, 24080), (808, 24137), (821, 24170), (903, 24206), (944, 24284), (953, 24305), (991, 24386), (992, 24389), (1034, 24476), (1043, 24488), (1061, 24527), (1072, 24563), (1075, 24569), (1082, 24581), (1134, 24644),

Gene: Altjira_78 Start: 47095, Stop: 48342, Start Num: 294

Candidate Starts for Altjira_78:

(Start: 294 @47095 has 45 MA's), (Start: 384 @47257 has 1 MA's), (388, 47269), (413, 47323), (455, 47401), (519, 47476), (587, 47566), (590, 47575), (639, 47668), (677, 47728), (722, 47803), (781, 47872), (1096, 48247), (1107, 48265),

Gene: Alyssamiracle_63 Start: 39828, Stop: 41744, Start Num: 55

Candidate Starts for Alyssamiracle_63:

(Start: 55 @39828 has 13 MA's), (Start: 58 @39831 has 23 MA's), (Start: 76 @39843 has 2 MA's), (Start: 89 @39891 has 2 MA's), (Start: 103 @39924 has 1 MA's), (155, 40083), (172, 40110), (175, 40119), (219, 40191), (Start: 297 @40311 has 15 MA's), (331, 40374), (Start: 387 @40464 has 1 MA's), (401, 40491), (509, 40620), (519, 40644), (542, 40686), (548, 40698), (562, 40713), (577, 40734), (583, 40755), (590, 40776), (620, 40833), (627, 40851), (652, 40887), (679, 40929), (716, 40989), (788, 41085), (790, 41088), (915, 41265), (951, 41316), (992, 41406), (1009, 41442), (1012, 41448), (1037, 41502), (1059, 41541), (1112, 41643), (1123, 41658), (1137, 41679),

Gene: Alyxandracam_41 Start: 31119, Stop: 29731, Start Num: 319

Candidate Starts for Alyxandracam_41:

(39, 31770), (163, 31416), (197, 31341), (Start: 319 @31119 has 153 MA's), (405, 30975), (Start: 408 @30969 has 1 MA's), (410, 30966), (471, 30852), (511, 30825), (547, 30765), (572, 30738), (577, 30735), (622, 30639), (644, 30597), (781, 30426), (797, 30390), (801, 30378), (811, 30345), (817, 30330), (874, 30270), (927, 30174), (960, 30111), (982, 30057), (1023, 29973), (1024, 29967), (1031, 29955), (1077, 29859), (1109, 29805), (1112, 29802), (1128, 29778),

Gene: Amavida_72 Start: 47198, Stop: 45804, Start Num: 317

Candidate Starts for Amavida_72:

(Start: 317 @47198 has 13 MA's), (353, 47129), (399, 47054), (409, 47036), (425, 47006), (467, 46925), (511, 46895), (520, 46871), (656, 46631), (679, 46592), (773, 46478), (809, 46427), (831, 46406), (850, 46376), (860, 46361), (865, 46349), (914, 46268), (936, 46220), (950, 46193), (962, 46172), (997, 46088), (1032, 46022), (1139, 45833), (1146, 45821),

Gene: Amigo_71 Start: 47416, Stop: 46022, Start Num: 317

Candidate Starts for Amigo_71:

(Start: 317 @47416 has 13 MA's), (353, 47347), (399, 47272), (409, 47254), (425, 47224), (467, 47143), (656, 46849), (679, 46810), (773, 46696), (831, 46624), (850, 46594), (860, 46579), (865, 46567), (898, 46516), (923, 46465), (934, 46447), (936, 46438), (962, 46390), (1032, 46240), (1139, 46051),

Gene: Amok_54 Start: 39035, Stop: 37557, Start Num: 277

Candidate Starts for Amok_54:

(Start: 277 @39035 has 49 MA's), (328, 38948), (330, 38942), (388, 38840), (Start: 408 @38798 has 1 MA's), (443, 38741), (451, 38723), (453, 38717), (577, 38585), (596, 38531), (599, 38525), (602, 38519), (649, 38441), (740, 38327), (772, 38300), (781, 38276), (794, 38237), (808, 38195), (815, 38171), (830, 38150), (870, 38102), (875, 38093), (939, 37976), (964, 37928), (971, 37910), (1013, 37814), (1023, 37793), (1036, 37763), (1055, 37733), (1131, 37595),

Gene: Amore2_62 Start: 52713, Stop: 51082, Start Num: 223

Candidate Starts for Amore2_62:

(Start: 223 @52713 has 3 MA's), (227, 52701), (261, 52650), (263, 52644), (Start: 303 @52587 has 4 MA's), (Start: 395 @52446 has 1 MA's), (416, 52404), (421, 52392), (443, 52356), (444, 52353), (455, 52326), (472, 52290), (479, 52278), (483, 52263), (516, 52155), (580, 52050), (583, 52035), (635, 51912), (665, 51864), (679, 51840), (690, 51822), (714, 51774), (758, 51723), (776, 51687), (783, 51669), (857, 51552), (905, 51501), (937, 51459), (973, 51399), (990, 51357), (1016, 51306), (1025, 51282), (1109, 51120), (1125, 51099),

Gene: Anakin_40 Start: 25911, Stop: 27818, Start Num: 68

Candidate Starts for Anakin_40:

(Start: 68 @25911 has 36 MA's), (93, 25974), (106, 25995), (122, 26049), (199, 26226), (229, 26271), (335, 26445), (339, 26454), (394, 26544), (422, 26601), (543, 26787), (620, 26922), (624, 26934), (650, 26967), (777, 27096), (824, 27213), (888, 27288), (1009, 27522), (1010, 27525), (1037, 27585), (1080, 27675), (1097, 27705), (1126, 27747), (1163, 27798),

Gene: Anamika_57 Start: 52887, Stop: 51475, Start Num: 375

Candidate Starts for Anamika_57:

(177, 53235), (233, 53106), (288, 53019), (Start: 290 @53016 has 3 MA's), (Start: 375 @52887 has 28 MA's), (Start: 395 @52842 has 1 MA's), (443, 52752), (444, 52749), (448, 52743), (455, 52722), (483, 52659), (516, 52551), (525, 52533), (580, 52446), (583, 52431), (601, 52389), (635, 52308), (665, 52260), (690, 52218), (698, 52200), (700, 52197), (714, 52170), (758, 52119), (776, 52083), (794, 52032), (857, 51948), (867, 51927), (982, 51771), (985, 51765), (990, 51753), (1055, 51627), (1109, 51513),

Gene: Anandi_81 Start: 48694, Stop: 49887, Start Num: 318

Candidate Starts for Anandi_81:

(Start: 294 @48646 has 45 MA's), (Start: 318 @48694 has 13 MA's), (388, 48820), (518, 49024), (578, 49087), (580, 49090), (587, 49117), (677, 49279), (680, 49285), (700, 49321), (781, 49423), (817, 49531), (825, 49543), (908, 49567), (1009, 49630), (1036, 49690), (1038, 49693), (1057, 49723),

(1096, 49807), (1107, 49825), (1140, 49870),

Gene: Anansi_70 Start: 47020, Stop: 45626, Start Num: 317

Candidate Starts for Anansi_70:

(Start: 317 @47020 has 13 MA's), (353, 46951), (399, 46876), (409, 46858), (425, 46828), (467, 46747), (582, 46597), (656, 46453), (679, 46414), (773, 46300), (809, 46249), (831, 46228), (850, 46198), (860, 46183), (865, 46171), (914, 46090), (936, 46042), (950, 46015), (962, 45994), (997, 45910), (1032, 45844), (1139, 45655), (1146, 45643),

Gene: AndPeggy_50 Start: 38315, Stop: 36837, Start Num: 277

Candidate Starts for AndPeggy_50:

(Start: 277 @38315 has 49 MA's), (330, 38222), (Start: 343 @38195 has 1 MA's), (388, 38120), (Start: 408 @38078 has 1 MA's), (453, 37997), (577, 37865), (596, 37811), (602, 37799), (649, 37721), (740, 37607), (772, 37580), (781, 37556), (794, 37517), (815, 37451), (830, 37430), (875, 37373), (939, 37256), (964, 37208), (971, 37190), (1013, 37094), (1023, 37073), (1036, 37043),

Gene: Andromedas_40 Start: 31099, Stop: 29687, Start Num: 327

Candidate Starts for Andromedas_40:

(Start: 327 @31099 has 23 MA's), (339, 31069), (Start: 343 @31063 has 1 MA's), (364, 31030), (471, 30838), (511, 30811), (547, 30751), (572, 30724), (577, 30721), (590, 30679), (622, 30625), (644, 30583), (727, 30469), (781, 30412), (790, 30391), (797, 30376), (801, 30364), (805, 30352), (806, 30349), (811, 30331), (857, 30250), (874, 30214), (903, 30160), (925, 30118), (940, 30088), (953, 30064), (957, 30058), (977, 30016), (1009, 29947), (1020, 29923), (1023, 29917), (1024, 29911), (1031, 29899), (1077, 29803), (1082, 29794), (1093, 29776), (1099, 29764), (1131, 29719),

Gene: Anilorac_40 Start: 31339, Stop: 29834, Start Num: 243

Candidate Starts for Anilorac_40:

(230, 31363), (Start: 243 @31339 has 1 MA's), (257, 31318), (Start: 302 @31255 has 13 MA's), (Start: 319 @31225 has 153 MA's), (405, 31078), (Start: 408 @31072 has 1 MA's), (410, 31069), (471, 30955), (547, 30868), (572, 30841), (577, 30838), (622, 30742), (644, 30700), (781, 30529), (790, 30508), (801, 30481), (817, 30433), (874, 30373), (982, 30160), (991, 30142), (1020, 30082), (1023, 30076), (1024, 30070), (1031, 30058), (1077, 29962), (1109, 29908), (1112, 29905), (1151, 29851),

Gene: AnnaSerena_40 Start: 25946, Stop: 27853, Start Num: 68

Candidate Starts for AnnaSerena_40:

(Start: 68 @25946 has 36 MA's), (93, 26009), (106, 26030), (122, 26084), (199, 26261), (229, 26306), (335, 26480), (339, 26489), (394, 26579), (422, 26636), (543, 26822), (620, 26957), (624, 26969), (650, 27002), (777, 27131), (824, 27248), (888, 27323), (1009, 27557), (1010, 27560), (1037, 27620), (1080, 27710), (1097, 27740), (1126, 27782), (1163, 27833),

Gene: AnnabelLee_38 Start: 26373, Stop: 24541, Start Num: 75

Candidate Starts for AnnabelLee_38:

(Start: 75 @26373 has 19 MA's), (90, 26316), (174, 26115), (248, 25980), (329, 25845), (341, 25818), (438, 25761), (444, 25746), (467, 25692), (519, 25596), (522, 25590), (530, 25575), (557, 25530), (583, 25482), (590, 25461), (599, 25443), (624, 25392), (687, 25299), (693, 25287), (777, 25224), (808, 25152), (840, 25092), (875, 25071), (920, 25005), (933, 24987), (940, 24969), (942, 24966), (961, 24930), (1009, 24822), (1013, 24813), (1044, 24753), (1063, 24705),

Gene: Annapurna_40 Start: 25220, Stop: 27127, Start Num: 68

Candidate Starts for Annapurna_40:

(17, 25046), (Start: 68 @25220 has 36 MA's), (93, 25283), (106, 25304), (122, 25358), (176, 25493), (199, 25535), (229, 25580), (335, 25754), (339, 25763), (394, 25853), (415, 25895), (422, 25910), (543, 26096), (620, 26231), (624, 26243), (650, 26276), (777, 26405), (824, 26522), (993, 26795),

(1010, 26834), (1037, 26894), (1080, 26984), (1097, 27014), (1126, 27056), (1163, 27107),

Gene: Annihilus_54 Start: 37384, Stop: 38556, Start Num: 297

Candidate Starts for Annihilus_54:

(Start: 297 @37384 has 15 MA's), (312, 37417), (Start: 318 @37426 has 13 MA's), (347, 37483), (426, 37576), (433, 37588), (519, 37705), (587, 37795), (614, 37852), (622, 37864), (673, 37951), (677, 37957), (690, 37978), (701, 38002), (713, 38017), (765, 38071), (773, 38080), (781, 38101), (782, 38104), (795, 38143), (1013, 38302), (1047, 38368), (1057, 38386), (1086, 38452), (1089, 38458), (1098, 38473),

Gene: Antoinette_41 Start: 31109, Stop: 29721, Start Num: 319

Candidate Starts for Antoinette_41:

(197, 31331), (Start: 319 @31109 has 153 MA's), (405, 30965), (Start: 408 @30959 has 1 MA's), (410, 30956), (471, 30842), (511, 30815), (547, 30755), (572, 30728), (577, 30725), (622, 30629), (644, 30587), (781, 30416), (790, 30395), (797, 30380), (801, 30368), (817, 30320), (874, 30260), (927, 30164), (960, 30101), (982, 30047), (1023, 29963), (1024, 29957), (1031, 29945), (1066, 29870), (1077, 29849), (1109, 29795), (1112, 29792), (1128, 29768),

Gene: Apeppi_55 Start: 40047, Stop: 41966, Start Num: 58

Candidate Starts for Apeppi_55:

(19, 39927), (25, 39948), (31, 39969), (41, 39999), (Start: 51 @40032 has 11 MA's), (Start: 55 @40044 has 13 MA's), (Start: 58 @40047 has 23 MA's), (Start: 76 @40062 has 2 MA's), (81, 40077), (Start: 89 @40110 has 2 MA's), (Start: 103 @40143 has 1 MA's), (105, 40146), (119, 40194), (125, 40212), (155, 40302), (166, 40320), (172, 40329), (175, 40338), (219, 40410), (Start: 297 @40530 has 15 MA's), (299, 40533), (331, 40593), (340, 40611), (Start: 387 @40683 has 1 MA's), (401, 40710), (512, 40845), (519, 40863), (542, 40905), (555, 40926), (562, 40932), (583, 40974), (590, 40995), (601, 41016), (620, 41052), (679, 41151), (687, 41160), (716, 41211), (788, 41307), (790, 41310), (861, 41421), (915, 41487), (939, 41511), (951, 41538), (1027, 41706), (1037, 41724), (1053, 41748), (1059, 41763), (1060, 41769), (1078, 41811), (1087, 41826), (1112, 41865), (1123, 41880), (1137, 41901), (1168, 41958),

Gene: Apiary_72 Start: 53146, Stop: 51110, Start Num: 36

Candidate Starts for Apiary_72:

(11, 53314), (Start: 36 @53146 has 6 MA's), (62, 53080), (85, 53038), (198, 52753), (239, 52696), (269, 52645), (283, 52630), (335, 52540), (341, 52528), (394, 52435), (444, 52363), (512, 52294), (548, 52222), (583, 52165), (688, 51985), (700, 51961), (751, 51898), (777, 51862), (810, 51775), (888, 51643), (920, 51604), (921, 51601), (942, 51556), (1009, 51409), (1040, 51346), (1060, 51304), (1078, 51265), (1093, 51241),

Gene: ApoKipo_99 Start: 56676, Stop: 58337, Start Num: 185

Candidate Starts for ApoKipo_99:

(Start: 185 @56676 has 9 MA's), (216, 56736), (244, 56796), (261, 56823), (361, 56997), (372, 57009), (443, 57129), (460, 57165), (500, 57189), (531, 57234), (550, 57270), (555, 57276), (586, 57324), (603, 57366), (677, 57486), (717, 57549), (755, 57582), (775, 57612), (782, 57630), (783, 57633), (796, 57666), (806, 57699), (852, 57756), (882, 57825), (909, 57882), (948, 57954), (963, 57981), (975, 58008), (1006, 58083), (1020, 58110), (1046, 58158), (1062, 58191), (1065, 58200), (1067, 58203), (1086, 58236), (1122, 58290), (1129, 58302), (1132, 58305), (1136, 58311),

Gene: AppleCider_29 Start: 22130, Stop: 23524, Start Num: 295

Candidate Starts for AppleCider_29:

(Start: 295 @22130 has 213 MA's), (328, 22187), (Start: 387 @22292 has 1 MA's), (429, 22379), (509, 22463), (511, 22466), (512, 22469), (580, 22559), (590, 22595), (595, 22604), (620, 22670), (627, 22688), (650, 22721), (660, 22733), (704, 22802), (719, 22829), (742, 22853), (775, 22889), (777,

22895), (788, 22928), (794, 22943), (797, 22952), (904, 23042), (940, 23111), (953, 23138), (963, 23156), (969, 23168), (1009, 23258), (1012, 23264), (1017, 23273), (1019, 23279), (1034, 23315), (1072, 23402), (1113, 23453), (1140, 23492), (1156, 23516),

Gene: ArV1_077 Start: 57342, Stop: 59084, Start Num: 158

Candidate Starts for ArV1_077:

(Start: 158 @57342 has 18 MA's), (168, 57363), (171, 57369), (212, 57459), (236, 57510), (240, 57519), (258, 57546), (265, 57558), (328, 57660), (366, 57732), (Start: 375 @57741 has 28 MA's), (394, 57783), (430, 57837), (435, 57843), (438, 57846), (444, 57861), (527, 57963), (538, 57981), (566, 58020), (570, 58026), (578, 58041), (596, 58092), (602, 58104), (652, 58185), (724, 58290), (759, 58317), (761, 58320), (793, 58380), (812, 58437), (856, 58482), (865, 58500), (885, 58548), (893, 58560), (899, 58572), (907, 58593), (920, 58617), (933, 58641), (939, 58659), (980, 58743), (989, 58767), (998, 58794), (1002, 58800), (1019, 58830), (1021, 58836), (1073, 58947), (1076, 58953), (1101, 58995), (1158, 59076),

Gene: Araceli_42 Start: 30875, Stop: 32269, Start Num: 302

Candidate Starts for Araceli_42:

(Start: 302 @30875 has 13 MA's), (Start: 303 @30878 has 4 MA's), (339, 30953), (353, 30977), (381, 31007), (383, 31010), (Start: 387 @31022 has 1 MA's), (401, 31055), (440, 31112), (454, 31136), (509, 31181), (512, 31187), (547, 31247), (575, 31268), (595, 31322), (634, 31421), (651, 31448), (659, 31457), (740, 31583), (777, 31631), (785, 31652), (788, 31664), (794, 31679), (808, 31709), (821, 31742), (827, 31751), (912, 31793), (942, 31859), (944, 31862), (953, 31883), (963, 31901), (971, 31919), (992, 31973), (1009, 32003), (1034, 32060), (1036, 32063), (1061, 32111), (1082, 32165), (1138, 32234), (1150, 32252),

Gene: AranulaLuti_40 Start: 30803, Stop: 29415, Start Num: 319

Candidate Starts for AranulaLuti_40:

(12, 31619), (39, 31454), (163, 31100), (197, 31025), (Start: 319 @30803 has 153 MA's), (405, 30659), (Start: 408 @30653 has 1 MA's), (410, 30650), (471, 30536), (511, 30509), (547, 30449), (572, 30422), (577, 30419), (622, 30323), (644, 30281), (781, 30110), (790, 30089), (797, 30074), (817, 30014), (874, 29954), (927, 29858), (960, 29795), (982, 29741), (1023, 29657), (1024, 29651), (1031, 29639), (1077, 29543), (1109, 29489), (1112, 29486), (1128, 29462),

Gene: Arataki_85 Start: 54274, Stop: 55488, Start Num: 295

Candidate Starts for Arataki_85:

(Start: 295 @54274 has 213 MA's), (299, 54280), (Start: 327 @54334 has 23 MA's), (328, 54337), (333, 54349), (358, 54397), (359, 54400), (392, 54442), (413, 54484), (433, 54517), (452, 54556), (518, 54634), (519, 54637), (578, 54697), (623, 54799), (639, 54829), (671, 54880), (677, 54889), (695, 54919), (698, 54928), (700, 54931), (715, 54952), (717, 54955), (720, 54961), (725, 54967), (760, 54994), (765, 55003), (776, 55021), (779, 55030), (781, 55033), (784, 55042), (799, 55087), (807, 55111), (814, 55135), (865, 55165), (910, 55180), (1009, 55234), (1018, 55252), (1068, 55360), (1093, 55405), (1096, 55411), (1115, 55438), (1138, 55471),

Gene: Arcadia_79 Start: 46777, Stop: 48087, Start Num: 295

Candidate Starts for Arcadia_79:

(Start: 295 @46777 has 213 MA's), (578, 47215), (587, 47245), (622, 47314), (645, 47359), (671, 47398), (677, 47407), (695, 47437), (722, 47482), (725, 47485), (765, 47521), (776, 47539), (778, 47545), (779, 47548), (781, 47551), (785, 47563), (805, 47623), (814, 47653), (1079, 47896), (1089, 47914), (1138, 47986), (1162, 48022),

Gene: Archimedes_37 Start: 33084, Stop: 31684, Start Num: 302

Candidate Starts for Archimedes_37:

(Start: 302 @33084 has 13 MA's), (Start: 323 @33042 has 8 MA's), (339, 33006), (350, 32988), (353, 32982), (381, 32952), (Start: 387 @32937 has 1 MA's), (388, 32934), (429, 32850), (594, 32628), (599, 32616), (651, 32502), (740, 32376), (754, 32364), (772, 32343), (773, 32340), (777, 32328), (788, 32295), (794, 32280), (806, 32256), (821, 32220), (827, 32211), (940, 32112), (969, 32055), (973, 32043), (976, 32037), (1017, 31950), (1024, 31929), (1034, 31908), (1075, 31815), (1158, 31689),

Gene: AreFloNak_77 Start: 47947, Stop: 49179, Start Num: 294

Candidate Starts for AreFloNak_77:

(Start: 294 @47947 has 45 MA's), (299, 47956), (Start: 318 @47995 has 13 MA's), (388, 48121), (455, 48253), (518, 48325), (578, 48388), (587, 48418), (622, 48487), (677, 48580), (680, 48586), (700, 48622), (781, 48724), (1013, 48931), (1036, 48982), (1047, 48997), (1057, 49015), (1060, 49027), (1061, 49030), (1096, 49099), (1107, 49117),

Gene: Argan_75 Start: 45686, Stop: 46933, Start Num: 294

Candidate Starts for Argan_75:

(Start: 294 @45686 has 45 MA's), (Start: 384 @45848 has 1 MA's), (388, 45860), (413, 45914), (455, 45992), (519, 46067), (587, 46157), (590, 46166), (639, 46259), (677, 46319), (722, 46394), (781, 46463), (1096, 46838), (1107, 46856),

Gene: ArtetaBall_84 Start: 54231, Stop: 55445, Start Num: 295

Candidate Starts for ArtetaBall_84:

(Start: 295 @54231 has 213 MA's), (299, 54237), (Start: 327 @54291 has 23 MA's), (328, 54294), (333, 54306), (358, 54354), (359, 54357), (392, 54399), (413, 54441), (429, 54468), (433, 54474), (452, 54513), (518, 54591), (519, 54594), (578, 54654), (623, 54756), (639, 54786), (671, 54837), (673, 54840), (677, 54846), (695, 54876), (698, 54885), (700, 54888), (715, 54909), (717, 54912), (720, 54918), (725, 54924), (760, 54951), (765, 54960), (776, 54978), (779, 54987), (781, 54990), (784, 54999), (799, 55044), (807, 55068), (814, 55092), (865, 55122), (910, 55137), (1009, 55191), (1018, 55209), (1036, 55251), (1096, 55368), (1115, 55395), (1138, 55428),

Gene: Arti_71 Start: 55496, Stop: 53430, Start Num: 35

Candidate Starts for Arti_71:

(8, 55700), (9, 55688), (11, 55670), (Start: 35 @55496 has 35 MA's), (Start: 89 @55358 has 2 MA's), (96, 55334), (175, 55130), (198, 55085), (269, 54977), (339, 54863), (341, 54860), (394, 54770), (Start: 395 @54767 has 1 MA's), (441, 54707), (542, 54569), (553, 54551), (573, 54527), (627, 54404), (688, 54299), (777, 54173), (796, 54119), (865, 53993), (876, 53984), (885, 53960), (939, 53888), (942, 53882), (956, 53852), (981, 53795), (1009, 53735), (1040, 53672), (1078, 53591),

Gene: Artiphact_40 Start: 25935, Stop: 27842, Start Num: 68

Candidate Starts for Artiphact_40:

(Start: 68 @25935 has 36 MA's), (93, 25998), (106, 26019), (122, 26073), (199, 26250), (229, 26295), (335, 26469), (339, 26478), (394, 26568), (422, 26625), (543, 26811), (620, 26946), (624, 26958), (650, 26991), (777, 27120), (824, 27237), (888, 27312), (1009, 27546), (1010, 27549), (1037, 27609), (1080, 27699), (1097, 27729), (1126, 27771), (1163, 27822),

Gene: Artorias_87 Start: 53621, Stop: 54841, Start Num: 295

Candidate Starts for Artorias_87:

(Start: 295 @53621 has 213 MA's), (Start: 327 @53681 has 23 MA's), (328, 53684), (347, 53723), (359, 53747), (392, 53789), (413, 53831), (433, 53864), (452, 53903), (455, 53909), (518, 53981), (578, 54044), (623, 54146), (639, 54176), (650, 54194), (671, 54227), (673, 54230), (677, 54236), (711, 54293), (717, 54302), (722, 54311), (725, 54314), (765, 54350), (773, 54359), (776, 54368), (781, 54380), (798, 54431), (799, 54434), (814, 54485), (819, 54494), (1018, 54602), (1068, 54710), (1086, 54743), (1096, 54761), (1105, 54776),

Gene: Artu_93 Start: 77224, Stop: 79068, Start Num: 71

Candidate Starts for Artu_93:

(Start: 71 @77224 has 13 MA's), (169, 77497), (248, 77605), (Start: 293 @77671 has 5 MA's), (329, 77740), (333, 77749), (438, 77824), (601, 78133), (623, 78178), (648, 78217), (665, 78238), (693, 78283), (730, 78340), (777, 78346), (788, 78379), (793, 78391), (797, 78403), (878, 78520), (881, 78526), (940, 78616), (956, 78649), (993, 78733), (1040, 78826), (1054, 78850), (1147, 79018), (1149, 79021),

Gene: Arzan_75 Start: 47463, Stop: 48692, Start Num: 294

Candidate Starts for Arzan_75:

(Start: 294 @47463 has 45 MA's), (Start: 318 @47511 has 13 MA's), (388, 47637), (455, 47769), (519, 47844), (587, 47934), (594, 47949), (596, 47955), (622, 48003), (660, 48066), (677, 48096), (1036, 48498), (1138, 48675), (1140, 48678), (1145, 48687),

Gene: Asta_40 Start: 30816, Stop: 29428, Start Num: 319

Candidate Starts for Asta_40:

(197, 31038), (Start: 319 @30816 has 153 MA's), (405, 30672), (Start: 408 @30666 has 1 MA's), (410, 30663), (471, 30549), (511, 30522), (547, 30462), (572, 30435), (577, 30432), (617, 30339), (622, 30336), (644, 30294), (781, 30123), (790, 30102), (797, 30087), (801, 30075), (817, 30027), (874, 29967), (927, 29871), (960, 29808), (982, 29754), (1023, 29670), (1024, 29664), (1031, 29652), (1066, 29577), (1077, 29556), (1109, 29502), (1112, 29499), (1128, 29475),

Gene: Astralis_60 Start: 39409, Stop: 41322, Start Num: 58

Candidate Starts for Astralis_60:

(Start: 55 @39406 has 13 MA's), (Start: 58 @39409 has 23 MA's), (Start: 76 @39421 has 2 MA's), (Start: 89 @39469 has 2 MA's), (Start: 103 @39502 has 1 MA's), (155, 39661), (172, 39688), (175, 39697), (219, 39769), (Start: 297 @39889 has 15 MA's), (331, 39952), (Start: 387 @40042 has 1 MA's), (401, 40069), (509, 40198), (519, 40222), (542, 40264), (548, 40276), (562, 40291), (577, 40312), (583, 40333), (590, 40354), (620, 40411), (627, 40429), (652, 40465), (679, 40507), (716, 40567), (788, 40663), (790, 40666), (915, 40843), (951, 40894), (992, 40984), (1009, 41020), (1012, 41026), (1037, 41080), (1059, 41119), (1112, 41221), (1123, 41236), (1137, 41257),

Gene: Atuin_95 Start: 80621, Stop: 82477, Start Num: 71

Candidate Starts for Atuin_95:

(Start: 71 @80621 has 13 MA's), (169, 80894), (248, 80999), (Start: 322 @81122 has 4 MA's), (329, 81134), (333, 81143), (448, 81239), (497, 81314), (519, 81374), (601, 81527), (623, 81572), (665, 81632), (693, 81677), (730, 81734), (777, 81740), (788, 81773), (793, 81785), (797, 81797), (878, 81914), (879, 81917), (920, 81974), (940, 82010), (947, 82022), (956, 82043), (993, 82127), (1040, 82220), (1054, 82244), (1147, 82412), (1149, 82415),

Gene: Aubergine_40 Start: 30816, Stop: 29428, Start Num: 319

Candidate Starts for Aubergine_40:

(197, 31038), (Start: 319 @30816 has 153 MA's), (405, 30672), (Start: 408 @30666 has 1 MA's), (410, 30663), (471, 30549), (511, 30522), (547, 30462), (572, 30435), (577, 30432), (622, 30336), (644, 30294), (781, 30123), (790, 30102), (797, 30087), (817, 30027), (874, 29967), (927, 29871), (960, 29808), (982, 29754), (1023, 29670), (1024, 29664), (1031, 29652), (1077, 29556), (1109, 29502), (1112, 29499), (1128, 29475),

Gene: Audell_37 Start: 28742, Stop: 26934, Start Num: 75

Candidate Starts for Audell_37:

(Start: 75 @28742 has 19 MA's), (90, 28682), (118, 28619), (172, 28487), (174, 28481), (241, 28364), (248, 28352), (Start: 302 @28268 has 13 MA's), (438, 28130), (530, 27944), (583, 27851), (590, 27830), (596, 27818), (693, 27659), (700, 27644), (720, 27614), (777, 27596), (814, 27527), (818,

27521), (828, 27506), (858, 27479), (875, 27467), (878, 27458), (888, 27440), (919, 27404), (920, 27401), (933, 27383), (940, 27365), (942, 27362), (1013, 27209), (1027, 27176), (1044, 27149), (1056, 27128), (1063, 27101), (1114, 27011), (1149, 26960),

Gene: Austin_61 Start: 52711, Stop: 51080, Start Num: 223

Candidate Starts for Austin_61:

(Start: 223 @52711 has 3 MA's), (227, 52699), (261, 52648), (263, 52642), (Start: 303 @52585 has 4 MA's), (Start: 395 @52444 has 1 MA's), (416, 52402), (421, 52390), (443, 52354), (444, 52351), (455, 52324), (472, 52288), (479, 52276), (483, 52261), (516, 52153), (580, 52048), (583, 52033), (635, 51910), (665, 51862), (679, 51838), (690, 51820), (714, 51772), (758, 51721), (776, 51685), (783, 51667), (857, 51550), (905, 51499), (937, 51457), (973, 51397), (990, 51355), (1016, 51304), (1025, 51280), (1109, 51118), (1125, 51097),

Gene: AustinPowers_26 Start: 21746, Stop: 23140, Start Num: 295

Candidate Starts for AustinPowers_26:

(Start: 295 @21746 has 213 MA's), (328, 21803), (379, 21890), (Start: 387 @21908 has 1 MA's), (388, 21911), (429, 21995), (452, 22028), (509, 22079), (512, 22085), (547, 22145), (580, 22175), (590, 22211), (599, 22229), (610, 22265), (620, 22286), (627, 22304), (630, 22310), (650, 22337), (704, 22418), (719, 22445), (742, 22469), (761, 22484), (777, 22511), (788, 22544), (794, 22559), (940, 22727), (953, 22754), (961, 22766), (969, 22784), (1009, 22874), (1012, 22880), (1019, 22895), (1020, 22898), (1063, 22991), (1072, 23018), (1117, 23075), (1140, 23108), (1156, 23132),

Gene: Avazak_87 Start: 54050, Stop: 55270, Start Num: 295

Candidate Starts for Avazak_87:

(Start: 295 @54050 has 213 MA's), (Start: 327 @54110 has 23 MA's), (328, 54113), (347, 54152), (359, 54176), (392, 54218), (413, 54260), (429, 54287), (433, 54293), (452, 54332), (509, 54389), (518, 54410), (578, 54473), (623, 54575), (639, 54605), (650, 54623), (671, 54656), (673, 54659), (677, 54665), (717, 54731), (722, 54740), (725, 54743), (765, 54779), (773, 54788), (776, 54797), (781, 54809), (798, 54860), (819, 54923), (992, 54992), (1018, 55031), (1068, 55139), (1086, 55172), (1096, 55190), (1115, 55217),

Gene: Avian_59 Start: 39556, Stop: 41472, Start Num: 55

Candidate Starts for Avian_59:

(Start: 55 @39556 has 13 MA's), (Start: 58 @39559 has 23 MA's), (Start: 76 @39571 has 2 MA's), (Start: 89 @39619 has 2 MA's), (Start: 103 @39652 has 1 MA's), (155, 39811), (172, 39838), (175, 39847), (219, 39919), (Start: 297 @40039 has 15 MA's), (331, 40102), (Start: 387 @40192 has 1 MA's), (401, 40219), (509, 40348), (519, 40372), (542, 40414), (548, 40426), (562, 40441), (577, 40462), (583, 40483), (590, 40504), (620, 40561), (627, 40579), (652, 40615), (679, 40657), (716, 40717), (788, 40813), (790, 40816), (915, 40993), (951, 41044), (992, 41134), (1009, 41170), (1012, 41176), (1037, 41230), (1059, 41269), (1112, 41371), (1123, 41386), (1137, 41407),

Gene: AxiPup_41 Start: 31088, Stop: 29700, Start Num: 319

Candidate Starts for AxiPup_41:

(39, 31739), (163, 31385), (197, 31310), (Start: 319 @31088 has 153 MA's), (405, 30944), (Start: 408 @30938 has 1 MA's), (410, 30935), (471, 30821), (511, 30794), (547, 30734), (572, 30707), (577, 30704), (622, 30608), (644, 30566), (781, 30395), (790, 30374), (801, 30347), (817, 30299), (874, 30239), (960, 30080), (982, 30026), (1023, 29942), (1024, 29936), (1031, 29924), (1077, 29828), (1109, 29774), (1112, 29771), (1128, 29747),

Gene: Axym_52 Start: 38739, Stop: 37261, Start Num: 277

Candidate Starts for Axym_52:

(Start: 277 @38739 has 49 MA's), (328, 38652), (330, 38646), (379, 38565), (388, 38544), (453, 38421), (454, 38418), (596, 38235), (599, 38229), (602, 38223), (649, 38145), (740, 38031), (772,

38004), (781, 37980), (801, 37920), (815, 37875), (830, 37854), (867, 37815), (875, 37797), (939, 37680), (964, 37632), (966, 37629), (971, 37614), (1013, 37518), (1023, 37497), (1036, 37467),

Gene: AyoTeo_35 Start: 23382, Stop: 24809, Start Num: 298

Candidate Starts for AyoTeo_35:

(270, 23340), (Start: 298 @23382 has 19 MA's), (464, 23700), (547, 23802), (583, 23847), (590, 23868), (740, 24135), (777, 24183), (785, 24204), (808, 24261), (821, 24294), (903, 24330), (944, 24408), (953, 24429), (991, 24510), (992, 24513), (1034, 24600), (1043, 24612), (1061, 24651), (1072, 24687), (1082, 24705), (1134, 24768),

Gene: Azira_49 Start: 37909, Stop: 36419, Start Num: 277

Candidate Starts for Azira_49:

(Start: 277 @37909 has 49 MA's), (330, 37819), (Start: 343 @37792 has 1 MA's), (370, 37750), (394, 37702), (Start: 408 @37675 has 1 MA's), (453, 37594), (454, 37591), (456, 37585), (465, 37564), (532, 37498), (596, 37408), (602, 37396), (639, 37333), (649, 37318), (661, 37303), (762, 37186), (772, 37177), (799, 37099), (808, 37072), (811, 37060), (815, 37048), (857, 37009), (867, 36988), (868, 36985), (875, 36970), (907, 36898), (940, 36829), (964, 36784), (981, 36739), (988, 36724), (998, 36694), (1013, 36670), (1036, 36619), (1055, 36589), (1085, 36523), (1097, 36499), (1121, 36466), (1146, 36430),

Gene: Baines_40 Start: 30809, Stop: 29421, Start Num: 319

Candidate Starts for Baines_40:

(197, 31031), (Start: 319 @30809 has 153 MA's), (405, 30665), (Start: 408 @30659 has 1 MA's), (410, 30656), (471, 30542), (511, 30515), (547, 30455), (572, 30428), (577, 30425), (622, 30329), (644, 30287), (781, 30116), (790, 30095), (797, 30080), (801, 30068), (817, 30020), (874, 29960), (927, 29864), (960, 29801), (982, 29747), (1023, 29663), (1024, 29657), (1031, 29645), (1066, 29570), (1077, 29549), (1109, 29495), (1112, 29492), (1128, 29468),

Gene: Balloona_55 Start: 40742, Stop: 39264, Start Num: 277

Candidate Starts for Balloona_55:

(217, 40820), (248, 40769), (Start: 250 @40766 has 2 MA's), (Start: 277 @40742 has 49 MA's), (312, 40679), (328, 40658), (330, 40652), (Start: 343 @40625 has 1 MA's), (379, 40571), (394, 40535), (401, 40520), (453, 40424), (456, 40415), (465, 40394), (532, 40328), (577, 40292), (596, 40238), (599, 40232), (602, 40226), (649, 40148), (661, 40133), (740, 40034), (788, 39959), (797, 39935), (801, 39923), (808, 39902), (812, 39887), (815, 39878), (830, 39857), (867, 39818), (870, 39809), (877, 39794), (907, 39743), (942, 39671), (964, 39629), (966, 39626), (971, 39611), (1013, 39515), (1036, 39464), (1055, 39434), (1066, 39401), (1097, 39344), (1106, 39329),

Gene: Balsa_40 Start: 31258, Stop: 29867, Start Num: 319

Candidate Starts for Balsa_40:

(Start: 243 @31372 has 1 MA's), (Start: 302 @31288 has 13 MA's), (Start: 319 @31258 has 153 MA's), (405, 31111), (Start: 408 @31105 has 1 MA's), (410, 31102), (471, 30988), (511, 30961), (547, 30901), (572, 30874), (577, 30871), (622, 30775), (644, 30733), (781, 30562), (790, 30541), (801, 30514), (874, 30406), (927, 30310), (982, 30193), (991, 30175), (1023, 30109), (1024, 30103), (1077, 29995), (1109, 29941), (1112, 29938), (1128, 29914), (1151, 29884),

Gene: Bandik_41 Start: 31114, Stop: 29726, Start Num: 319

Candidate Starts for Bandik_41:

(39, 31765), (163, 31411), (197, 31336), (Start: 319 @31114 has 153 MA's), (405, 30970), (Start: 408 @30964 has 1 MA's), (410, 30961), (471, 30847), (511, 30820), (547, 30760), (572, 30733), (577, 30730), (622, 30634), (644, 30592), (724, 30481), (781, 30421), (797, 30385), (801, 30373), (811, 30340), (817, 30325), (874, 30265), (927, 30169), (960, 30106), (982, 30052), (1023, 29968), (1024, 29962), (1031, 29950), (1077, 29854), (1109, 29800), (1112, 29797), (1128, 29773),

Gene: BarbieDoll_80 Start: 47433, Stop: 48680, Start Num: 294

Candidate Starts for BarbieDoll_80:

(Start: 294 @47433 has 45 MA's), (333, 47511), (388, 47607), (413, 47661), (455, 47739), (587, 47904), (590, 47913), (639, 48006), (677, 48066), (781, 48210), (1096, 48585), (1107, 48603),

Gene: Barbochs_57 Start: 51736, Stop: 50204, Start Num: 306

Candidate Starts for Barbochs_57:

(177, 51991), (201, 51940), (220, 51889), (248, 51835), (265, 51805), (Start: 290 @51772 has 3 MA's), (Start: 295 @51763 has 213 MA's), (Start: 306 @51736 has 28 MA's), (Start: 395 @51568 has 1 MA's), (416, 51526), (443, 51478), (449, 51466), (453, 51454), (455, 51448), (464, 51427), (479, 51400), (525, 51259), (580, 51172), (583, 51157), (587, 51145), (601, 51115), (622, 51064), (634, 51037), (665, 50986), (679, 50962), (690, 50944), (698, 50926), (700, 50923), (714, 50896), (747, 50854), (776, 50809), (857, 50674), (865, 50659), (883, 50638), (937, 50581), (951, 50557), (982, 50497), (985, 50491), (988, 50485), (990, 50479), (1016, 50428), (1025, 50404), (1048, 50365), (1055, 50353), (1057, 50350), (1099, 50257), (1109, 50242), (1125, 50221),

Gene: Barbonzobean_83 Start: 48016, Stop: 49185, Start Num: 333

Candidate Starts for Barbonzobean_83:

(Start: 294 @47938 has 45 MA's), (333, 48016), (388, 48112), (413, 48166), (455, 48244), (519, 48319), (587, 48409), (590, 48418), (677, 48571), (781, 48715), (1096, 49090), (1107, 49108),

Gene: BarnCat_85 Start: 49027, Stop: 47570, Start Num: 293

Candidate Starts for BarnCat_85:

(Start: 293 @49027 has 5 MA's), (Start: 305 @48997 has 1 MA's), (371, 48883), (410, 48811), (414, 48799), (443, 48751), (460, 48709), (506, 48673), (517, 48649), (565, 48577), (569, 48571), (576, 48559), (585, 48532), (594, 48511), (631, 48436), (641, 48418), (699, 48322), (707, 48313), (785, 48208), (808, 48178), (809, 48175), (810, 48169), (814, 48157), (815, 48154), (853, 48094), (860, 48085), (906, 47995), (936, 47941), (954, 47905), (1005, 47824), (1006, 47821), (1010, 47818), (1015, 47809), (1054, 47731), (1057, 47725), (1095, 47647), (1108, 47626), (1127, 47599), (1130, 47596),

Gene: Barnyard_65 Start: 45144, Stop: 47105, Start Num: 47

Candidate Starts for Barnyard_65:

(Start: 47 @45144 has 1 MA's), (Start: 58 @45171 has 23 MA's), (Start: 70 @45177 has 5 MA's), (Start: 74 @45183 has 16 MA's), (93, 45249), (114, 45282), (117, 45297), (119, 45312), (122, 45318), (129, 45345), (144, 45387), (169, 45447), (177, 45468), (195, 45504), (199, 45513), (239, 45576), (251, 45597), (262, 45615), (Start: 275 @45630 has 1 MA's), (Start: 280 @45636 has 11 MA's), (Start: 297 @45660 has 15 MA's), (338, 45735), (Start: 342 @45741 has 7 MA's), (453, 45924), (457, 45936), (470, 45954), (509, 45969), (548, 46047), (627, 46200), (648, 46233), (731, 46368), (764, 46395), (773, 46401), (775, 46407), (794, 46461), (814, 46527), (815, 46530), (860, 46572), (942, 46656), (958, 46689), (1008, 46800), (1009, 46803), (1010, 46806), (1013, 46812), (1027, 46845), (1040, 46866), (1042, 46869), (1060, 46908), (1087, 46962), (1109, 46998), (1116, 47007), (1155, 47064), (1165, 47082),

Gene: BaronJohn_40 Start: 29682, Stop: 28255, Start Num: 319

Candidate Starts for BaronJohn_40:

(Start: 296 @29724 has 1 MA's), (Start: 319 @29682 has 153 MA's), (336, 29652), (339, 29646), (Start: 408 @29532 has 1 MA's), (410, 29529), (411, 29526), (572, 29292), (577, 29289), (727, 29034), (778, 28983), (781, 28977), (801, 28929), (811, 28896), (874, 28782), (877, 28773), (903, 28728), (905, 28722), (920, 28695), (927, 28686), (960, 28623), (991, 28551), (1009, 28515), (1013, 28506), (1020, 28491), (1023, 28485), (1031, 28467), (1055, 28425), (1082, 28362), (1128, 28290),

Gene: Bavidard_56 Start: 40156, Stop: 38678, Start Num: 277

Candidate Starts for Bavilard_56:

(Start: 277 @40156 has 49 MA's), (312, 40093), (328, 40072), (330, 40066), (Start: 343 @40039 has 1 MA's), (379, 39985), (394, 39949), (401, 39934), (453, 39838), (456, 39829), (465, 39808), (532, 39742), (577, 39706), (596, 39652), (599, 39646), (602, 39640), (649, 39562), (661, 39547), (740, 39448), (788, 39373), (797, 39349), (801, 39337), (808, 39316), (812, 39301), (815, 39292), (830, 39271), (867, 39232), (870, 39223), (907, 39157), (942, 39085), (964, 39043), (966, 39040), (971, 39025), (1013, 38929), (1036, 38878), (1055, 38848), (1066, 38815), (1097, 38758), (1106, 38743),

Gene: BeautPeep30_41 Start: 31120, Stop: 29732, Start Num: 319

Candidate Starts for BeautPeep30_41:

(197, 31342), (Start: 319 @31120 has 153 MA's), (405, 30976), (Start: 408 @30970 has 1 MA's), (410, 30967), (471, 30853), (511, 30826), (547, 30766), (572, 30739), (577, 30736), (622, 30640), (644, 30598), (777, 30436), (781, 30427), (790, 30406), (797, 30391), (801, 30379), (817, 30331), (874, 30271), (927, 30175), (960, 30112), (982, 30058), (1023, 29974), (1024, 29968), (1031, 29956), (1077, 29860), (1109, 29806), (1112, 29803), (1128, 29779),

Gene: Beaver_62 Start: 53506, Stop: 51974, Start Num: 306

Candidate Starts for Beaver_62:

(177, 53761), (201, 53710), (220, 53659), (248, 53605), (265, 53575), (Start: 290 @53542 has 3 MA's), (Start: 295 @53533 has 213 MA's), (Start: 306 @53506 has 28 MA's), (Start: 395 @53338 has 1 MA's), (416, 53296), (443, 53248), (449, 53236), (453, 53224), (455, 53218), (464, 53197), (479, 53170), (525, 53029), (580, 52942), (583, 52927), (587, 52915), (601, 52885), (622, 52834), (634, 52807), (665, 52756), (690, 52714), (698, 52696), (700, 52693), (714, 52666), (747, 52624), (776, 52579), (783, 52561), (857, 52444), (865, 52429), (883, 52408), (937, 52351), (951, 52327), (982, 52267), (985, 52261), (988, 52255), (990, 52249), (1016, 52198), (1025, 52174), (1048, 52135), (1055, 52123), (1099, 52027), (1109, 52012), (1125, 51991),

Gene: Beckerton_60 Start: 46572, Stop: 48629, Start Num: 51

Candidate Starts for Beckerton_60:

(Start: 51 @46572 has 11 MA's), (85, 46632), (86, 46635), (119, 46728), (124, 46740), (129, 46761), (177, 46884), (179, 46887), (182, 46896), (199, 46929), (208, 46950), (225, 46998), (251, 47040), (Start: 297 @47103 has 15 MA's), (Start: 306 @47124 has 28 MA's), (310, 47130), (Start: 342 @47184 has 7 MA's), (453, 47370), (457, 47382), (470, 47400), (509, 47415), (512, 47421), (688, 47739), (690, 47742), (716, 47787), (773, 47838), (777, 47850), (810, 47940), (814, 47952), (835, 47985), (851, 48009), (856, 48018), (942, 48108), (958, 48141), (1008, 48252), (1009, 48255), (1010, 48258), (1012, 48261), (1027, 48297), (1037, 48315), (1068, 48381), (1078, 48399), (1171, 48576),

Gene: BeeBee8_41 Start: 31426, Stop: 30035, Start Num: 319

Candidate Starts for BeeBee8_41:

(Start: 242 @31528 has 2 MA's), (Start: 243 @31525 has 1 MA's), (245, 31522), (Start: 319 @31426 has 153 MA's), (405, 31279), (Start: 408 @31273 has 1 MA's), (410, 31270), (471, 31156), (511, 31129), (547, 31069), (572, 31042), (577, 31039), (622, 30943), (644, 30901), (781, 30730), (790, 30709), (801, 30682), (817, 30634), (874, 30574), (927, 30478), (982, 30361), (991, 30343), (1023, 30277), (1024, 30271), (1077, 30163), (1109, 30109), (1112, 30106), (1128, 30082), (1151, 30052),

Gene: Beethoven_29 Start: 22100, Stop: 23500, Start Num: 295

Candidate Starts for Beethoven_29:

(Start: 295 @22100 has 213 MA's), (328, 22163), (Start: 387 @22268 has 1 MA's), (388, 22271), (429, 22355), (452, 22388), (509, 22439), (512, 22445), (575, 22526), (577, 22529), (580, 22535), (590, 22571), (599, 22589), (601, 22592), (610, 22625), (620, 22646), (627, 22664), (650, 22697), (704, 22778), (719, 22805), (754, 22835), (761, 22844), (777, 22871), (788, 22904), (794, 22919), (817, 22973), (860, 22994), (865, 23006), (904, 23018), (1012, 23240), (1017, 23249), (1019, 23255), (1034, 23291), (1063, 23351), (1072, 23378), (1140, 23468),

Gene: Benczkowski14_57 Start: 53319, Stop: 51616, Start Num: 206

Candidate Starts for Benczkowski14_57:

(Start: 206 @53319 has 9 MA's), (Start: 209 @53307 has 2 MA's), (Start: 316 @53124 has 5 MA's), (Start: 375 @53034 has 28 MA's), (381, 53025), (Start: 395 @52989 has 1 MA's), (Start: 408 @52965 has 1 MA's), (412, 52956), (416, 52947), (443, 52899), (453, 52875), (483, 52803), (484, 52800), (485, 52782), (498, 52743), (564, 52614), (583, 52575), (584, 52572), (590, 52554), (595, 52545), (601, 52533), (621, 52485), (635, 52452), (665, 52404), (679, 52380), (714, 52314), (776, 52215), (811, 52116), (814, 52107), (856, 52083), (857, 52080), (937, 51987), (951, 51963), (953, 51960), (982, 51903), (990, 51885), (1048, 51768), (1050, 51765), (1057, 51753), (1109, 51654), (1125, 51633),

Gene: BenitoAntonio_79 Start: 46369, Stop: 47679, Start Num: 295

Candidate Starts for BenitoAntonio_79:

(Start: 295 @46369 has 213 MA's), (578, 46807), (587, 46837), (622, 46906), (645, 46951), (671, 46990), (677, 46999), (695, 47029), (722, 47074), (725, 47077), (776, 47131), (778, 47137), (779, 47140), (781, 47143), (785, 47155), (805, 47215), (814, 47245), (1079, 47488), (1089, 47506), (1138, 47578), (1162, 47614),

Gene: Benjalauren_41 Start: 30819, Stop: 29431, Start Num: 319

Candidate Starts for Benjalauren_41:

(39, 31470), (163, 31116), (197, 31041), (Start: 319 @30819 has 153 MA's), (405, 30675), (Start: 408 @30669 has 1 MA's), (410, 30666), (471, 30552), (511, 30525), (547, 30465), (572, 30438), (577, 30435), (622, 30339), (644, 30297), (781, 30126), (790, 30105), (797, 30090), (817, 30030), (874, 29970), (927, 29874), (960, 29811), (982, 29757), (1023, 29673), (1024, 29667), (1031, 29655), (1077, 29559), (1109, 29505), (1112, 29502), (1128, 29478),

Gene: Benllo_77 Start: 47047, Stop: 48357, Start Num: 295

Candidate Starts for Benllo_77:

(Start: 295 @47047 has 213 MA's), (578, 47485), (587, 47515), (622, 47584), (645, 47629), (671, 47668), (677, 47677), (695, 47707), (722, 47752), (725, 47755), (776, 47809), (778, 47815), (781, 47821), (805, 47893), (814, 47923), (1009, 48019), (1079, 48166), (1089, 48184), (1138, 48256), (1162, 48292),

Gene: Bennie_25 Start: 20566, Stop: 21960, Start Num: 295

Candidate Starts for Bennie_25:

(Start: 295 @20566 has 213 MA's), (328, 20623), (Start: 387 @20728 has 1 MA's), (388, 20731), (429, 20815), (452, 20848), (509, 20899), (512, 20905), (580, 20995), (590, 21031), (599, 21049), (601, 21052), (610, 21085), (620, 21106), (704, 21238), (719, 21265), (754, 21295), (761, 21304), (777, 21331), (788, 21364), (794, 21379), (808, 21406), (817, 21433), (866, 21469), (924, 21511), (953, 21574), (963, 21592), (992, 21664), (1003, 21688), (1009, 21694), (1010, 21697), (1019, 21715), (1020, 21718), (1031, 21742), (1034, 21751), (1072, 21838), (1113, 21889), (1140, 21928),

Gene: BenoitCattle_59 Start: 52020, Stop: 50611, Start Num: 375

Candidate Starts for BenoitCattle_59:

(177, 52398), (201, 52347), (220, 52296), (248, 52242), (265, 52212), (Start: 290 @52179 has 3 MA's), (Start: 295 @52170 has 213 MA's), (Start: 306 @52143 has 28 MA's), (Start: 375 @52020 has 28 MA's), (Start: 395 @51975 has 1 MA's), (416, 51933), (443, 51885), (444, 51882), (448, 51876), (449, 51873), (453, 51861), (455, 51855), (479, 51807), (480, 51804), (516, 51684), (525, 51666), (564, 51603), (580, 51579), (583, 51564), (601, 51522), (622, 51471), (665, 51393), (698, 51333), (700, 51330), (705, 51321), (714, 51303), (747, 51261), (776, 51216), (857, 51081), (865, 51066), (883, 51045), (951, 50964), (953, 50961), (982, 50904), (985, 50898), (990, 50886), (1016, 50835), (1025, 50811), (1048, 50772), (1055, 50760), (1099, 50664), (1109, 50649),

Gene: Benry_32 Start: 21495, Stop: 22922, Start Num: 298

Candidate Starts for Benry_32:

(Start: 298 @21495 has 19 MA's), (509, 21849), (511, 21852), (519, 21873), (583, 21960), (601, 22002), (773, 22284), (777, 22296), (785, 22317), (794, 22344), (807, 22371), (808, 22374), (817, 22401), (821, 22407), (903, 22443), (953, 22542), (981, 22605), (991, 22623), (992, 22626), (1020, 22680), (1034, 22713), (1043, 22725), (1061, 22764), (1072, 22800), (1075, 22806), (1082, 22818), (1113, 22851), (1134, 22881),

Gene: Berries_57 Start: 52859, Stop: 51447, Start Num: 375

Candidate Starts for Berries_57:

(177, 53207), (233, 53078), (Start: 290 @52988 has 3 MA's), (Start: 375 @52859 has 28 MA's), (Start: 395 @52814 has 1 MA's), (443, 52724), (444, 52721), (448, 52715), (455, 52694), (483, 52631), (516, 52523), (525, 52505), (580, 52418), (583, 52403), (601, 52361), (635, 52280), (665, 52232), (690, 52190), (698, 52172), (700, 52169), (714, 52142), (758, 52091), (776, 52055), (794, 52004), (857, 51920), (867, 51899), (982, 51743), (985, 51737), (990, 51725), (1055, 51599), (1109, 51485),

Gene: BetterYeti_85 Start: 54311, Stop: 55525, Start Num: 295

Candidate Starts for BetterYeti_85:

(Start: 295 @54311 has 213 MA's), (299, 54317), (Start: 327 @54371 has 23 MA's), (328, 54374), (333, 54386), (358, 54434), (359, 54437), (392, 54479), (413, 54521), (433, 54554), (452, 54593), (518, 54671), (519, 54674), (578, 54734), (669, 54914), (671, 54917), (673, 54920), (677, 54926), (698, 54965), (717, 54992), (725, 55004), (760, 55031), (765, 55040), (776, 55058), (779, 55067), (781, 55070), (784, 55079), (799, 55124), (807, 55148), (814, 55172), (1009, 55271), (1012, 55277), (1018, 55289), (1036, 55331), (1068, 55397), (1079, 55418), (1096, 55448), (1138, 55508),

Gene: Beyoncage_50 Start: 36615, Stop: 38669, Start Num: 74

Candidate Starts for Beyoncage_50:

(Start: 74 @36615 has 16 MA's), (82, 36639), (106, 36702), (131, 36786), (144, 36828), (266, 37050), (Start: 297 @37086 has 15 MA's), (337, 37161), (359, 37200), (Start: 395 @37242 has 1 MA's), (405, 37260), (414, 37281), (421, 37293), (456, 37353), (468, 37368), (509, 37386), (548, 37464), (562, 37479), (564, 37482), (583, 37521), (590, 37542), (650, 37644), (688, 37701), (698, 37722), (700, 37725), (709, 37737), (736, 37785), (737, 37791), (749, 37839), (759, 37872), (770, 37896), (774, 37914), (785, 37944), (833, 38067), (856, 38100), (863, 38112), (876, 38127), (905, 38166), (939, 38211), (951, 38238), (990, 38322), (1018, 38385), (1037, 38427), (1044, 38436), (1049, 38445), (1068, 38493), (1071, 38502), (1078, 38514), (1087, 38529), (1114, 38571),

Gene: BiPauneto_74 Start: 54628, Stop: 52772, Start Num: 120

Candidate Starts for BiPauneto_74:

(9, 55045), (11, 55027), (16, 54952), (Start: 35 @54853 has 35 MA's), (Start: 120 @54628 has 3 MA's), (269, 54334), (Start: 297 @54301 has 15 MA's), (Start: 306 @54280 has 28 MA's), (336, 54226), (339, 54220), (341, 54217), (394, 54127), (Start: 395 @54124 has 1 MA's), (441, 54064), (553, 53908), (627, 53761), (688, 53653), (700, 53629), (777, 53527), (796, 53473), (805, 53458), (847, 53377), (876, 53338), (919, 53275), (939, 53236), (942, 53230), (956, 53200), (1009, 53083), (1040, 53020), (1068, 52957), (1078, 52939), (1133, 52855),

Gene: Bianmat_57 Start: 52899, Stop: 51487, Start Num: 375

Candidate Starts for Bianmat_57:

(177, 53247), (233, 53118), (Start: 290 @53028 has 3 MA's), (Start: 375 @52899 has 28 MA's), (Start: 395 @52854 has 1 MA's), (443, 52764), (444, 52761), (448, 52755), (455, 52734), (483, 52671), (503, 52593), (516, 52563), (525, 52545), (580, 52458), (583, 52443), (601, 52401), (635, 52320), (665, 52272), (690, 52230), (698, 52212), (700, 52209), (714, 52182), (758, 52131), (776, 52095), (794, 52044), (857, 51960), (867, 51939), (982, 51783), (985, 51777), (990, 51765), (1055, 51639), (1109, 51525),

Gene: Big4_103 Start: 78367, Stop: 76427, Start Num: 75

Candidate Starts for Big4_103:

(Start: 75 @78367 has 19 MA's), (126, 78214), (165, 78121), (222, 78046), (269, 77965), (Start: 290 @77941 has 3 MA's), (433, 77665), (596, 77359), (645, 77269), (688, 77209), (693, 77200), (730, 77143), (777, 77137), (788, 77104), (793, 77092), (796, 77083), (808, 77059), (839, 76999), (944, 76867), (947, 76861), (976, 76798), (984, 76777), (987, 76771), (1023, 76696), (1024, 76690), (1035, 76669), (1063, 76609), (1084, 76567), (1097, 76543), (1104, 76531),

Gene: BigChungus_56 Start: 40283, Stop: 38805, Start Num: 277

Candidate Starts for BigChungus_56:

(217, 40361), (248, 40310), (Start: 250 @40307 has 2 MA's), (Start: 277 @40283 has 49 MA's), (312, 40220), (328, 40199), (330, 40193), (Start: 343 @40166 has 1 MA's), (379, 40112), (394, 40076), (401, 40061), (453, 39965), (456, 39956), (465, 39935), (532, 39869), (577, 39833), (596, 39779), (599, 39773), (602, 39767), (649, 39689), (661, 39674), (740, 39575), (788, 39500), (797, 39476), (801, 39464), (808, 39443), (812, 39428), (815, 39419), (830, 39398), (867, 39359), (870, 39350), (877, 39335), (907, 39284), (942, 39212), (964, 39170), (971, 39152), (1013, 39056), (1036, 39005), (1055, 38975), (1066, 38942), (1097, 38885), (1106, 38870),

Gene: BigMack_25 Start: 20560, Stop: 21960, Start Num: 295

Candidate Starts for BigMack_25:

(Start: 295 @20560 has 213 MA's), (328, 20623), (Start: 387 @20728 has 1 MA's), (388, 20731), (429, 20815), (452, 20848), (509, 20899), (512, 20905), (575, 20986), (577, 20989), (580, 20995), (590, 21031), (599, 21049), (601, 21052), (610, 21085), (620, 21106), (627, 21124), (704, 21238), (719, 21265), (754, 21295), (761, 21304), (777, 21331), (788, 21364), (794, 21379), (808, 21406), (821, 21439), (924, 21511), (953, 21574), (963, 21592), (977, 21625), (1009, 21694), (1012, 21700), (1019, 21715), (1020, 21718), (1034, 21751), (1063, 21811), (1072, 21838), (1140, 21928),

Gene: BigMama_51 Start: 39745, Stop: 41688, Start Num: 65

Candidate Starts for BigMama_51:

(Start: 65 @39745 has 24 MA's), (80, 39772), (104, 39844), (121, 39898), (140, 39958), (146, 39976), (151, 39985), (174, 40036), (193, 40078), (219, 40114), (269, 40201), (329, 40294), (335, 40309), (347, 40330), (414, 40432), (438, 40465), (450, 40489), (512, 40549), (562, 40636), (596, 40711), (652, 40801), (688, 40852), (690, 40855), (764, 40945), (777, 40963), (788, 40996), (810, 41050), (814, 41062), (824, 41080), (865, 41143), (939, 41227), (992, 41344), (1009, 41392), (1040, 41455), (1078, 41539),

Gene: BigRedClifford_41 Start: 31118, Stop: 29730, Start Num: 319

Candidate Starts for BigRedClifford_41:

(Start: 319 @31118 has 153 MA's), (405, 30974), (Start: 408 @30968 has 1 MA's), (410, 30965), (471, 30851), (511, 30824), (547, 30764), (572, 30737), (577, 30734), (622, 30638), (644, 30596), (781, 30425), (790, 30404), (801, 30377), (817, 30329), (874, 30269), (960, 30110), (982, 30056), (1023, 29972), (1024, 29966), (1031, 29954), (1077, 29858), (1109, 29804), (1112, 29801), (1128, 29777),

Gene: BigShaq_59 Start: 52148, Stop: 50616, Start Num: 306

Candidate Starts for BigShaq_59:

(177, 52403), (201, 52352), (220, 52301), (248, 52247), (265, 52217), (Start: 290 @52184 has 3 MA's), (Start: 295 @52175 has 213 MA's), (Start: 306 @52148 has 28 MA's), (Start: 375 @52025 has 28 MA's), (Start: 395 @51980 has 1 MA's), (416, 51938), (443, 51890), (444, 51887), (448, 51881), (449, 51878), (453, 51866), (455, 51860), (472, 51824), (479, 51812), (480, 51809), (516, 51689), (525, 51671), (580, 51584), (583, 51569), (601, 51527), (622, 51476), (634, 51449), (665, 51398), (698, 51338), (700, 51335), (705, 51326), (714, 51308), (747, 51266), (776, 51221), (857, 51086), (865, 51071), (883, 51050), (951, 50969), (953, 50966), (982, 50909), (985, 50903), (990, 50891), (1016,

50840), (1022, 50825), (1025, 50816), (1048, 50777), (1055, 50765), (1099, 50669), (1109, 50654),

Gene: BillDoor_53 Start: 37991, Stop: 36513, Start Num: 277

Candidate Starts for BillDoor_53:

(Start: 277 @37991 has 49 MA's), (330, 37898), (Start: 343 @37871 has 1 MA's), (388, 37796), (Start: 408 @37754 has 1 MA's), (453, 37673), (577, 37541), (596, 37487), (602, 37475), (649, 37397), (740, 37283), (762, 37265), (772, 37256), (781, 37232), (794, 37193), (815, 37127), (830, 37106), (867, 37067), (875, 37049), (877, 37043), (939, 36932), (964, 36884), (971, 36866), (1013, 36770), (1023, 36749), (1036, 36719),

Gene: BillyBobJr_65 Start: 53852, Stop: 52284, Start Num: 290

Candidate Starts for BillyBobJr_65:

(177, 54071), (201, 54020), (233, 53942), (248, 53915), (265, 53885), (Start: 290 @53852 has 3 MA's), (Start: 295 @53843 has 213 MA's), (Start: 306 @53816 has 28 MA's), (Start: 395 @53648 has 1 MA's), (416, 53606), (426, 53588), (443, 53558), (449, 53546), (455, 53528), (479, 53480), (525, 53339), (580, 53252), (583, 53237), (587, 53225), (601, 53195), (622, 53144), (665, 53066), (679, 53042), (690, 53024), (698, 53006), (700, 53003), (705, 52994), (714, 52976), (776, 52889), (857, 52754), (865, 52739), (883, 52718), (937, 52661), (951, 52637), (953, 52634), (982, 52577), (985, 52571), (990, 52559), (1016, 52508), (1025, 52484), (1048, 52445), (1055, 52433), (1057, 52430), (1099, 52337), (1109, 52322), (1125, 52301),

Gene: Bilo_53 Start: 37644, Stop: 38816, Start Num: 297

Candidate Starts for Bilo_53:

(Start: 297 @37644 has 15 MA's), (312, 37677), (Start: 318 @37686 has 13 MA's), (347, 37743), (426, 37836), (519, 37965), (587, 38055), (622, 38124), (673, 38211), (677, 38217), (690, 38238), (701, 38262), (713, 38277), (757, 38319), (781, 38361), (807, 38439), (1013, 38562), (1086, 38712), (1089, 38718), (1105, 38745), (1107, 38748), (1141, 38793),

Gene: Bing_82 Start: 49946, Stop: 51139, Start Num: 295

Candidate Starts for Bing_82:

(Start: 295 @49946 has 213 MA's), (399, 50090), (454, 50189), (587, 50366), (594, 50381), (623, 50438), (677, 50528), (701, 50573), (715, 50591), (781, 50672), (785, 50684), (794, 50711), (807, 50750), (817, 50780), (819, 50783), (1013, 50873), (1038, 50927), (1063, 50981), (1068, 50990), (1086, 51023), (1087, 51026), (1089, 51029), (1105, 51056), (1117, 51071), (1141, 51104), (1153, 51122),

Gene: BirksAndSocks_64 Start: 53856, Stop: 52324, Start Num: 306

Candidate Starts for BirksAndSocks_64:

(177, 54111), (201, 54060), (248, 53955), (265, 53925), (Start: 290 @53892 has 3 MA's), (Start: 295 @53883 has 213 MA's), (Start: 306 @53856 has 28 MA's), (Start: 395 @53688 has 1 MA's), (416, 53646), (426, 53628), (443, 53598), (449, 53586), (453, 53574), (455, 53568), (464, 53547), (525, 53379), (580, 53292), (583, 53277), (587, 53265), (601, 53235), (665, 53106), (679, 53082), (690, 53064), (698, 53046), (700, 53043), (705, 53034), (714, 53016), (776, 52929), (857, 52794), (865, 52779), (883, 52758), (951, 52677), (953, 52674), (982, 52617), (985, 52611), (990, 52599), (1016, 52548), (1025, 52524), (1048, 52485), (1055, 52473), (1057, 52470), (1099, 52377), (1109, 52362),

Gene: BirthdayBoy_62 Start: 41143, Stop: 43056, Start Num: 58

Candidate Starts for BirthdayBoy_62:

(18, 41017), (21, 41026), (24, 41038), (33, 41071), (Start: 55 @41140 has 13 MA's), (Start: 58 @41143 has 23 MA's), (Start: 76 @41155 has 2 MA's), (Start: 89 @41203 has 2 MA's), (Start: 103 @41236 has 1 MA's), (125, 41305), (155, 41395), (172, 41422), (175, 41431), (219, 41503), (Start: 297 @41623 has 15 MA's), (331, 41686), (Start: 387 @41776 has 1 MA's), (401, 41803), (509, 41932), (519, 41956), (542, 41998), (577, 42046), (583, 42067), (590, 42088), (620, 42145), (652, 42199), (679, 42241),

(716, 42301), (788, 42397), (790, 42400), (915, 42577), (951, 42628), (992, 42718), (1009, 42754), (1012, 42760), (1037, 42814), (1059, 42853), (1112, 42955), (1123, 42970), (1137, 42991),

Gene: Biscute_76 Start: 47085, Stop: 48332, Start Num: 294

Candidate Starts for Biscute_76:

(Start: 294 @47085 has 45 MA's), (333, 47163), (388, 47259), (413, 47313), (455, 47391), (587, 47556), (590, 47565), (677, 47718), (781, 47862), (1096, 48237), (1107, 48255),

Gene: Biskit_55 Start: 38648, Stop: 37170, Start Num: 277

Candidate Starts for Biskit_55:

(Start: 277 @38648 has 49 MA's), (328, 38561), (330, 38555), (356, 38504), (388, 38453), (394, 38438), (443, 38354), (453, 38330), (456, 38321), (577, 38198), (596, 38144), (599, 38138), (602, 38132), (649, 38054), (740, 37940), (772, 37913), (781, 37889), (808, 37808), (815, 37784), (830, 37763), (867, 37724), (875, 37706), (877, 37700), (939, 37589), (942, 37583), (964, 37541), (971, 37523), (1009, 37436), (1013, 37427), (1023, 37406), (1036, 37376), (1055, 37346), (1066, 37313), (1121, 37223),

Gene: BiteSize_50 Start: 36701, Stop: 38755, Start Num: 74

Candidate Starts for BiteSize_50:

(Start: 74 @36701 has 16 MA's), (82, 36725), (106, 36788), (131, 36872), (144, 36914), (266, 37136), (Start: 297 @37172 has 15 MA's), (337, 37247), (359, 37286), (Start: 395 @37328 has 1 MA's), (405, 37346), (414, 37367), (421, 37379), (456, 37439), (468, 37454), (509, 37472), (548, 37550), (562, 37565), (564, 37568), (583, 37607), (590, 37628), (650, 37730), (688, 37787), (698, 37808), (700, 37811), (709, 37823), (736, 37871), (737, 37877), (749, 37925), (759, 37958), (770, 37982), (774, 38000), (785, 38030), (833, 38153), (856, 38186), (863, 38198), (876, 38213), (905, 38252), (939, 38297), (951, 38324), (990, 38408), (1018, 38471), (1037, 38513), (1044, 38522), (1049, 38531), (1068, 38579), (1071, 38588), (1078, 38600), (1087, 38615), (1114, 38657),

Gene: BlackHoleSun_78 Start: 46463, Stop: 47710, Start Num: 294

Candidate Starts for BlackHoleSun_78:

(Start: 294 @46463 has 45 MA's), (Start: 384 @46625 has 1 MA's), (388, 46637), (413, 46691), (455, 46769), (587, 46934), (590, 46943), (639, 47036), (677, 47096), (722, 47171), (781, 47240), (1075, 47579), (1079, 47585), (1096, 47615), (1107, 47633),

Gene: Blage_41 Start: 31118, Stop: 29730, Start Num: 319

Candidate Starts for Blage_41:

(Start: 319 @31118 has 153 MA's), (405, 30974), (Start: 408 @30968 has 1 MA's), (410, 30965), (471, 30851), (511, 30824), (547, 30764), (572, 30737), (577, 30734), (622, 30638), (644, 30596), (781, 30425), (790, 30404), (801, 30377), (817, 30329), (874, 30269), (960, 30110), (982, 30056), (1023, 29972), (1024, 29966), (1031, 29954), (1077, 29858), (1109, 29804), (1112, 29801), (1128, 29777),

Gene: Blanky_82 Start: 54958, Stop: 56175, Start Num: 295

Candidate Starts for Blanky_82:

(Start: 295 @54958 has 213 MA's), (Start: 327 @55018 has 23 MA's), (333, 55033), (347, 55060), (359, 55084), (392, 55126), (413, 55168), (429, 55195), (518, 55318), (519, 55321), (578, 55381), (604, 55447), (639, 55513), (650, 55531), (671, 55564), (673, 55567), (677, 55573), (698, 55612), (700, 55615), (711, 55630), (715, 55636), (717, 55639), (720, 55645), (725, 55651), (755, 55672), (765, 55687), (773, 55696), (781, 55717), (784, 55726), (799, 55771), (805, 55789), (807, 55795), (819, 55828), (1018, 55936), (1029, 55963), (1036, 55978), (1079, 56065), (1086, 56077), (1115, 56122),

Gene: Blondies_56 Start: 38965, Stop: 37487, Start Num: 277

Candidate Starts for Blondies_56:

(Start: 277 @38965 has 49 MA's), (328, 38878), (330, 38872), (356, 38821), (388, 38770), (394, 38755), (443, 38671), (453, 38647), (456, 38638), (577, 38515), (596, 38461), (599, 38455), (602, 38449), (615, 38425), (649, 38371), (740, 38257), (772, 38230), (781, 38206), (808, 38125), (815, 38101), (830, 38080), (867, 38041), (875, 38023), (877, 38017), (939, 37906), (942, 37900), (964, 37858), (971, 37840), (1009, 37753), (1013, 37744), (1023, 37723), (1036, 37693), (1055, 37663), (1066, 37630), (1121, 37540),

Gene: Bloom_105 Start: 80738, Stop: 82576, Start Num: 71

Candidate Starts for Bloom_105:

(Start: 71 @80738 has 13 MA's), (Start: 94 @80819 has 4 MA's), (127, 80897), (169, 80993), (222, 81053), (239, 81083), (310, 81203), (337, 81254), (435, 81314), (613, 81653), (648, 81710), (665, 81731), (693, 81776), (730, 81833), (777, 81839), (788, 81872), (793, 81884), (797, 81896), (814, 81941), (839, 81980), (888, 82037), (903, 82043), (920, 82076), (956, 82145), (993, 82229), (1054, 82346), (1152, 82520), (1169, 82562),

Gene: BlueNGold_166 Start: 96830, Stop: 94920, Start Num: 70

Candidate Starts for BlueNGold_166:

(Start: 70 @96830 has 5 MA's), (144, 96626), (165, 96578), (191, 96533), (225, 96452), (232, 96440), (299, 96335), (310, 96308), (430, 96203), (444, 96179), (533, 96014), (688, 95747), (693, 95738), (709, 95711), (788, 95642), (920, 95393), (951, 95327), (965, 95303), (1024, 95168), (1058, 95108), (1089, 95036),

Gene: BluerMoon_85 Start: 54940, Stop: 56154, Start Num: 295

Candidate Starts for BluerMoon_85:

(Start: 295 @54940 has 213 MA's), (299, 54946), (Start: 327 @55000 has 23 MA's), (328, 55003), (333, 55015), (359, 55066), (392, 55108), (413, 55150), (433, 55183), (518, 55300), (519, 55303), (578, 55363), (623, 55465), (671, 55546), (677, 55555), (695, 55585), (698, 55594), (700, 55597), (715, 55618), (717, 55621), (725, 55633), (760, 55660), (765, 55669), (776, 55687), (779, 55696), (781, 55699), (784, 55708), (807, 55777), (814, 55801), (865, 55831), (1018, 55918), (1068, 56026), (1096, 56077), (1115, 56104), (1138, 56137),

Gene: BobtimousPrime_63 Start: 46536, Stop: 48593, Start Num: 51

Candidate Starts for BobtimousPrime_63:

(Start: 51 @46536 has 11 MA's), (85, 46596), (86, 46599), (119, 46692), (124, 46704), (129, 46725), (177, 46848), (179, 46851), (182, 46860), (199, 46893), (208, 46914), (225, 46962), (251, 47004), (Start: 297 @47067 has 15 MA's), (Start: 306 @47088 has 28 MA's), (310, 47094), (Start: 342 @47148 has 7 MA's), (453, 47334), (457, 47346), (470, 47364), (509, 47379), (512, 47385), (688, 47703), (690, 47706), (716, 47751), (773, 47802), (777, 47814), (810, 47904), (814, 47916), (835, 47949), (851, 47973), (856, 47982), (942, 48072), (958, 48105), (1008, 48216), (1009, 48219), (1010, 48222), (1012, 48225), (1027, 48261), (1037, 48279), (1068, 48345), (1078, 48363), (1171, 48540),

Gene: Bodacious_25 Start: 20580, Stop: 21974, Start Num: 295

Candidate Starts for Bodacious_25:

(Start: 295 @20580 has 213 MA's), (328, 20637), (Start: 387 @20742 has 1 MA's), (388, 20745), (429, 20829), (452, 20862), (509, 20913), (512, 20919), (575, 21000), (577, 21003), (580, 21009), (590, 21045), (599, 21063), (601, 21066), (610, 21099), (620, 21120), (704, 21252), (719, 21279), (761, 21318), (775, 21339), (777, 21345), (788, 21378), (794, 21393), (797, 21402), (817, 21447), (866, 21483), (924, 21525), (953, 21588), (963, 21606), (1009, 21708), (1010, 21711), (1019, 21729), (1020, 21732), (1031, 21756), (1034, 21765), (1072, 21852), (1140, 21942), (1156, 21966),

Gene: Boersma_73 Start: 47416, Stop: 46022, Start Num: 317

Candidate Starts for Boersma_73:

(Start: 317 @47416 has 13 MA's), (353, 47347), (399, 47272), (409, 47254), (425, 47224), (467, 47143), (656, 46849), (679, 46810), (773, 46696), (831, 46624), (850, 46594), (860, 46579), (865, 46567), (898, 46516), (923, 46465), (934, 46447), (936, 46438), (962, 46390), (1032, 46240), (1139, 46051),

Gene: Bogota_43 Start: 31399, Stop: 32793, Start Num: 302

Candidate Starts for Bogota_43:

(Start: 302 @31399 has 13 MA's), (Start: 303 @31402 has 4 MA's), (339, 31477), (353, 31501), (381, 31531), (Start: 387 @31546 has 1 MA's), (440, 31636), (459, 31672), (547, 31771), (554, 31780), (596, 31849), (651, 31972), (740, 32107), (764, 32134), (777, 32155), (785, 32176), (808, 32233), (821, 32266), (827, 32275), (912, 32317), (942, 32383), (953, 32407), (963, 32425), (971, 32443), (992, 32497), (1009, 32527), (1034, 32584), (1036, 32587), (1061, 32635), (1074, 32674), (1082, 32689), (1138, 32758), (1150, 32776), (1156, 32785),

Gene: Boneham_63 Start: 53757, Stop: 52225, Start Num: 306

Candidate Starts for Boneham_63:

(177, 54012), (201, 53961), (248, 53856), (265, 53826), (Start: 290 @53793 has 3 MA's), (Start: 295 @53784 has 213 MA's), (Start: 306 @53757 has 28 MA's), (Start: 395 @53589 has 1 MA's), (416, 53547), (426, 53529), (443, 53499), (449, 53487), (453, 53475), (455, 53469), (464, 53448), (525, 53280), (580, 53193), (583, 53178), (587, 53166), (601, 53136), (665, 53007), (679, 52983), (690, 52965), (698, 52947), (700, 52944), (705, 52935), (714, 52917), (776, 52830), (857, 52695), (865, 52680), (883, 52659), (951, 52578), (953, 52575), (982, 52518), (985, 52512), (990, 52500), (1016, 52449), (1025, 52425), (1048, 52386), (1055, 52374), (1057, 52371), (1099, 52278), (1109, 52263),

Gene: BonesMcCoy_41 Start: 31118, Stop: 29730, Start Num: 319

Candidate Starts for BonesMcCoy_41:

(39, 31769), (163, 31415), (197, 31340), (Start: 319 @31118 has 153 MA's), (405, 30974), (Start: 408 @30968 has 1 MA's), (410, 30965), (471, 30851), (511, 30824), (547, 30764), (572, 30737), (577, 30734), (622, 30638), (644, 30596), (781, 30425), (790, 30404), (801, 30377), (817, 30329), (874, 30269), (960, 30110), (982, 30056), (1023, 29972), (1024, 29966), (1031, 29954), (1077, 29858), (1109, 29804), (1112, 29801), (1128, 29777),

Gene: Bonino_40 Start: 30795, Stop: 29407, Start Num: 319

Candidate Starts for Bonino_40:

(197, 31017), (Start: 319 @30795 has 153 MA's), (405, 30651), (Start: 408 @30645 has 1 MA's), (410, 30642), (471, 30528), (511, 30501), (547, 30441), (572, 30414), (577, 30411), (622, 30315), (644, 30273), (781, 30102), (790, 30081), (797, 30066), (801, 30054), (817, 30006), (874, 29946), (927, 29850), (960, 29787), (982, 29733), (1023, 29649), (1024, 29643), (1031, 29631), (1066, 29556), (1077, 29535), (1109, 29481), (1112, 29478), (1128, 29454),

Gene: Bonum_76 Start: 56632, Stop: 54545, Start Num: 35

Candidate Starts for Bonum_76:

(Start: 35 @56632 has 35 MA's), (85, 56512), (Start: 98 @56467 has 1 MA's), (101, 56464), (198, 56209), (269, 56101), (Start: 306 @56047 has 28 MA's), (341, 55984), (394, 55894), (Start: 395 @55891 has 1 MA's), (Start: 408 @55867 has 1 MA's), (441, 55831), (542, 55693), (553, 55675), (562, 55666), (573, 55651), (627, 55528), (670, 55444), (688, 55417), (700, 55393), (777, 55294), (796, 55240), (819, 55186), (847, 55144), (876, 55105), (921, 55036), (939, 55003), (956, 54967), (977, 54922), (981, 54910), (1009, 54850), (1040, 54787), (1133, 54622), (1149, 54598),

Gene: BooTeria_97 Start: 77289, Stop: 79133, Start Num: 71

Candidate Starts for BooTeria_97:

(Start: 71 @77289 has 13 MA's), (169, 77562), (248, 77670), (Start: 293 @77736 has 5 MA's), (329, 77805), (333, 77814), (438, 77889), (601, 78198), (623, 78243), (648, 78282), (665, 78303), (693,

78348), (730, 78405), (777, 78411), (788, 78444), (793, 78456), (797, 78468), (878, 78585), (881, 78591), (940, 78681), (956, 78714), (993, 78798), (1040, 78891), (1054, 78915), (1147, 79083), (1149, 79086),

Gene: Boog_73 Start: 45873, Stop: 47102, Start Num: 295

Candidate Starts for Boog_73:

(Start: 295 @45873 has 213 MA's), (388, 46044), (455, 46176), (578, 46311), (587, 46341), (614, 46398), (677, 46503), (680, 46509), (698, 46542), (781, 46647), (993, 46827), (1107, 47040), (1140, 47085),

Gene: Boopy_169 Start: 96841, Stop: 94931, Start Num: 70

Candidate Starts for Boopy_169:

(Start: 70 @96841 has 5 MA's), (144, 96637), (165, 96589), (191, 96544), (225, 96463), (232, 96451), (299, 96346), (310, 96319), (430, 96214), (444, 96190), (533, 96025), (688, 95758), (693, 95749), (709, 95722), (788, 95653), (920, 95404), (951, 95338), (965, 95314), (1024, 95179), (1058, 95119), (1089, 95047),

Gene: Bouchard_77 Start: 48490, Stop: 49722, Start Num: 294

Candidate Starts for Bouchard_77:

(Start: 294 @48490 has 45 MA's), (Start: 297 @48496 has 15 MA's), (Start: 302 @48502 has 13 MA's), (Start: 318 @48535 has 13 MA's), (388, 48661), (455, 48793), (578, 48928), (587, 48958), (677, 49120), (680, 49126), (700, 49162), (781, 49264), (1036, 49525), (1057, 49558), (1060, 49570), (1096, 49642),

Gene: BouleyBill_39 Start: 30564, Stop: 29158, Start Num: 315

Candidate Starts for BouleyBill_39:

(226, 30711), (252, 30666), (271, 30636), (Start: 305 @30582 has 1 MA's), (Start: 315 @30564 has 2 MA's), (Start: 323 @30552 has 8 MA's), (Start: 327 @30546 has 23 MA's), (339, 30516), (405, 30408), (Start: 408 @30402 has 1 MA's), (410, 30399), (416, 30384), (547, 30198), (554, 30189), (577, 30168), (590, 30126), (622, 30072), (781, 29859), (790, 29838), (797, 29823), (801, 29811), (806, 29796), (820, 29760), (826, 29751), (857, 29736), (874, 29700), (927, 29601), (960, 29538), (972, 29511), (1005, 29436), (1009, 29430), (1013, 29421), (1020, 29406), (1023, 29400), (1024, 29394), (1031, 29382), (1093, 29259), (1099, 29247), (1152, 29172),

Gene: Bowling_82 Start: 47507, Stop: 48817, Start Num: 295

Candidate Starts for Bowling_82:

(Start: 295 @47507 has 213 MA's), (578, 47945), (587, 47975), (622, 48044), (645, 48089), (671, 48128), (677, 48137), (695, 48167), (722, 48212), (725, 48215), (776, 48269), (778, 48275), (779, 48278), (781, 48281), (785, 48293), (805, 48353), (814, 48383), (1079, 48626), (1089, 48644), (1138, 48716), (1162, 48752),

Gene: Brad_47 Start: 40996, Stop: 38747, Start Num: 94

Candidate Starts for Brad_47:

(Start: 94 @40996 has 4 MA's), (112, 40963), (132, 40879), (211, 40690), (215, 40678), (264, 40588), (285, 40561), (Start: 297 @40540 has 15 MA's), (307, 40513), (310, 40510), (Start: 318 @40498 has 13 MA's), (337, 40459), (413, 40321), (444, 40258), (451, 40243), (456, 40228), (464, 40210), (471, 40198), (476, 40186), (482, 40165), (488, 40117), (489, 40114), (493, 40090), (506, 40048), (509, 40042), (559, 39952), (577, 39928), (622, 39805), (650, 39751), (713, 39640), (728, 39619), (734, 39604), (753, 39544), (784, 39469), (785, 39466), (889, 39301), (958, 39181), (1036, 38983), (1042, 38977), (1068, 38917), (1099, 38854), (1121, 38824), (1137, 38800), (1141, 38794),

Gene: Bramble_42 Start: 26601, Stop: 28535, Start Num: 72

Candidate Starts for Bramble_42:

(13, 26361), (Start: 30 @26505 has 1 MA's), (66, 26595), (Start: 72 @26601 has 6 MA's), (122, 26748), (127, 26766), (129, 26775), (199, 26925), (283, 27051), (335, 27141), (339, 27150), (394, 27240), (415, 27282), (431, 27312), (519, 27444), (624, 27630), (637, 27648), (650, 27663), (688, 27720), (726, 27780), (798, 27852), (881, 27990), (926, 28056), (940, 28086), (942, 28089), (977, 28164), (1010, 28242), (1037, 28302), (1080, 28392), (1092, 28410),

Gene: Braxoaddie_72 Start: 53132, Stop: 51096, Start Num: 36

Candidate Starts for Braxoaddie_72:

(11, 53300), (Start: 36 @53132 has 6 MA's), (62, 53066), (85, 53024), (123, 52919), (198, 52739), (239, 52682), (269, 52631), (283, 52616), (335, 52526), (341, 52514), (394, 52421), (444, 52349), (512, 52280), (548, 52208), (583, 52151), (688, 51971), (700, 51947), (751, 51884), (777, 51848), (810, 51761), (888, 51629), (920, 51590), (921, 51587), (942, 51542), (1009, 51395), (1040, 51332), (1060, 51290), (1078, 51251), (1093, 51227),

Gene: Breezic_59 Start: 51749, Stop: 50217, Start Num: 306

Candidate Starts for Breezic_59:

(177, 52004), (201, 51953), (220, 51902), (248, 51848), (265, 51818), (Start: 290 @51785 has 3 MA's), (Start: 295 @51776 has 213 MA's), (Start: 306 @51749 has 28 MA's), (Start: 395 @51581 has 1 MA's), (416, 51539), (443, 51491), (449, 51479), (453, 51467), (455, 51461), (464, 51440), (479, 51413), (525, 51272), (580, 51185), (583, 51170), (587, 51158), (601, 51128), (622, 51077), (634, 51050), (665, 50999), (698, 50939), (700, 50936), (714, 50909), (747, 50867), (776, 50822), (857, 50687), (865, 50672), (883, 50651), (937, 50594), (951, 50570), (953, 50567), (982, 50510), (985, 50504), (988, 50498), (990, 50492), (1016, 50441), (1025, 50417), (1048, 50378), (1055, 50366), (1057, 50363), (1099, 50270), (1109, 50255), (1125, 50234),

Gene: Breylor17_68 Start: 48311, Stop: 49561, Start Num: 294

Candidate Starts for Breylor17_68:

(Start: 294 @48311 has 45 MA's), (299, 48320), (Start: 318 @48359 has 13 MA's), (388, 48485), (Start: 395 @48503 has 1 MA's), (455, 48617), (518, 48689), (578, 48752), (587, 48782), (622, 48851), (677, 48944), (680, 48950), (700, 48986), (781, 49088), (992, 49265), (998, 49271), (1036, 49346), (1057, 49379), (1060, 49391), (1061, 49394), (1096, 49463),

Gene: BronxBay_74 Start: 46145, Stop: 47383, Start Num: 295

Candidate Starts for BronxBay_74:

(Start: 295 @46145 has 213 MA's), (388, 46316), (455, 46448), (578, 46583), (587, 46613), (614, 46670), (677, 46775), (680, 46781), (698, 46814), (781, 46919), (996, 47108), (1107, 47321), (1140, 47366),

Gene: BrotherBLo_29 Start: 22106, Stop: 23506, Start Num: 295

Candidate Starts for BrotherBLo_29:

(Start: 295 @22106 has 213 MA's), (328, 22169), (Start: 387 @22274 has 1 MA's), (429, 22361), (452, 22394), (509, 22445), (512, 22451), (575, 22532), (577, 22535), (580, 22541), (590, 22577), (599, 22595), (601, 22598), (610, 22631), (620, 22652), (627, 22670), (704, 22784), (719, 22811), (754, 22841), (761, 22850), (777, 22877), (788, 22910), (794, 22925), (817, 22979), (860, 23000), (865, 23012), (904, 23024), (1009, 23240), (1010, 23243), (1012, 23246), (1017, 23255), (1019, 23261), (1034, 23297), (1063, 23357), (1072, 23384), (1140, 23474),

Gene: Brunswick_73 Start: 47755, Stop: 48990, Start Num: 294

Candidate Starts for Brunswick_73:

(Start: 292 @47749 has 28 MA's), (Start: 294 @47755 has 45 MA's), (299, 47764), (312, 47794), (Start: 318 @47803 has 13 MA's), (358, 47881), (388, 47929), (455, 48061), (518, 48133), (578, 48196), (587, 48226), (622, 48295), (677, 48388), (680, 48394), (700, 48430), (781, 48532), (998, 48718), (1036, 48793), (1047, 48808), (1057, 48826), (1061, 48841), (1096, 48910), (1107, 48928),

Gene: Bubble_51 Start: 38427, Stop: 36949, Start Num: 277

Candidate Starts for Bubble_51:

(Start: 277 @38427 has 49 MA's), (328, 38340), (330, 38334), (388, 38232), (454, 38106), (596, 37923), (599, 37917), (602, 37911), (649, 37833), (740, 37719), (772, 37692), (781, 37668), (801, 37608), (815, 37563), (830, 37542), (867, 37503), (875, 37485), (939, 37368), (964, 37320), (966, 37317), (971, 37302), (1013, 37206), (1023, 37185), (1036, 37155), (1146, 36966),

Gene: Bugg_91 Start: 53666, Stop: 54886, Start Num: 295

Candidate Starts for Bugg_91:

(Start: 295 @53666 has 213 MA's), (Start: 327 @53726 has 23 MA's), (328, 53729), (347, 53768), (359, 53792), (392, 53834), (413, 53876), (433, 53909), (452, 53948), (455, 53954), (518, 54026), (578, 54089), (623, 54191), (639, 54221), (650, 54239), (671, 54272), (673, 54275), (677, 54281), (711, 54338), (717, 54347), (722, 54356), (725, 54359), (765, 54395), (773, 54404), (776, 54413), (781, 54425), (798, 54476), (799, 54479), (814, 54530), (819, 54539), (1018, 54647), (1068, 54755), (1086, 54788), (1096, 54806), (1105, 54821),

Gene: Buggaboo_74 Start: 57198, Stop: 55111, Start Num: 35

Candidate Starts for Buggaboo_74:

(Start: 35 @57198 has 35 MA's), (85, 57078), (Start: 98 @57033 has 1 MA's), (101, 57030), (198, 56775), (269, 56667), (Start: 306 @56613 has 28 MA's), (341, 56550), (394, 56460), (Start: 395 @56457 has 1 MA's), (Start: 408 @56433 has 1 MA's), (441, 56397), (542, 56259), (553, 56241), (562, 56232), (573, 56217), (627, 56094), (670, 56010), (688, 55983), (700, 55959), (777, 55860), (796, 55806), (819, 55752), (847, 55710), (876, 55671), (921, 55602), (939, 55569), (956, 55533), (977, 55488), (981, 55476), (1009, 55416), (1012, 55410), (1040, 55353), (1133, 55188), (1149, 55164),

Gene: Burley_85 Start: 53962, Stop: 55176, Start Num: 295

Candidate Starts for Burley_85:

(Start: 295 @53962 has 213 MA's), (299, 53968), (Start: 327 @54022 has 23 MA's), (328, 54025), (333, 54037), (358, 54085), (359, 54088), (392, 54130), (413, 54172), (433, 54205), (452, 54244), (455, 54250), (518, 54322), (519, 54325), (578, 54385), (623, 54487), (639, 54517), (657, 54544), (671, 54568), (677, 54577), (695, 54607), (698, 54616), (700, 54619), (717, 54643), (725, 54655), (760, 54682), (765, 54691), (776, 54709), (779, 54718), (781, 54721), (784, 54730), (795, 54763), (799, 54775), (807, 54799), (814, 54823), (910, 54868), (1009, 54922), (1012, 54928), (1018, 54940), (1068, 55048), (1096, 55099), (1115, 55126), (1138, 55159),

Gene: Burnsey_53 Start: 38833, Stop: 37355, Start Num: 277

Candidate Starts for Burnsey_53:

(Start: 277 @38833 has 49 MA's), (328, 38746), (330, 38740), (379, 38659), (388, 38638), (453, 38515), (454, 38512), (596, 38329), (599, 38323), (602, 38317), (649, 38239), (740, 38125), (772, 38098), (781, 38074), (801, 38014), (815, 37969), (830, 37948), (867, 37909), (875, 37891), (939, 37774), (964, 37726), (966, 37723), (971, 37708), (1013, 37612), (1023, 37591), (1036, 37561),

Gene: Bustleton_39 Start: 30567, Stop: 29185, Start Num: 323

Candidate Starts for Bustleton_39:

(Start: 305 @30594 has 1 MA's), (Start: 323 @30567 has 8 MA's), (Start: 327 @30564 has 23 MA's), (339, 30534), (405, 30426), (Start: 408 @30420 has 1 MA's), (410, 30417), (416, 30402), (547, 30216), (554, 30207), (577, 30186), (590, 30144), (622, 30090), (781, 29877), (790, 29856), (797, 29841), (801, 29829), (806, 29814), (820, 29778), (826, 29769), (857, 29754), (874, 29718), (927, 29619), (960, 29556), (972, 29529), (1005, 29454), (1009, 29448), (1013, 29439), (1020, 29424), (1023, 29418), (1024, 29412), (1031, 29400), (1093, 29277), (1099, 29265),

Gene: Butterball_62 Start: 53762, Stop: 52230, Start Num: 306

Candidate Starts for Butterball_62:

(177, 54017), (201, 53966), (248, 53861), (265, 53831), (Start: 290 @53798 has 3 MA's), (Start: 295 @53789 has 213 MA's), (Start: 306 @53762 has 28 MA's), (Start: 395 @53594 has 1 MA's), (416, 53552), (426, 53534), (443, 53504), (449, 53492), (453, 53480), (455, 53474), (464, 53453), (525, 53285), (580, 53198), (583, 53183), (587, 53171), (601, 53141), (665, 53012), (679, 52988), (690, 52970), (698, 52952), (700, 52949), (705, 52940), (714, 52922), (776, 52835), (857, 52700), (865, 52685), (883, 52664), (951, 52583), (953, 52580), (982, 52523), (985, 52517), (990, 52505), (1016, 52454), (1025, 52430), (1048, 52391), (1055, 52379), (1057, 52376), (1099, 52283), (1109, 52268),

Gene: Butterscotch_52 Start: 39729, Stop: 41672, Start Num: 65

Candidate Starts for Butterscotch_52:

(Start: 65 @39729 has 24 MA's), (80, 39756), (104, 39828), (121, 39882), (140, 39942), (146, 39960), (151, 39969), (174, 40020), (193, 40062), (219, 40098), (269, 40185), (329, 40278), (335, 40293), (347, 40314), (414, 40416), (438, 40449), (450, 40473), (512, 40533), (562, 40620), (596, 40695), (652, 40785), (688, 40836), (690, 40839), (764, 40929), (777, 40947), (788, 40980), (810, 41034), (814, 41046), (824, 41064), (865, 41127), (939, 41211), (992, 41328), (1009, 41376), (1040, 41439), (1078, 41523),

Gene: Button_57 Start: 39117, Stop: 37642, Start Num: 280

Candidate Starts for Button_57:

(Start: 280 @39117 has 11 MA's), (Start: 303 @39075 has 4 MA's), (330, 39027), (Start: 343 @39000 has 1 MA's), (379, 38946), (388, 38925), (391, 38916), (443, 38826), (448, 38817), (454, 38799), (456, 38793), (577, 38670), (596, 38616), (599, 38610), (602, 38604), (628, 38559), (649, 38526), (797, 38313), (808, 38280), (825, 38241), (867, 38196), (875, 38178), (877, 38172), (904, 38127), (907, 38121), (919, 38100), (940, 38052), (942, 38049), (964, 38007), (966, 38004), (971, 37989), (981, 37962), (1013, 37893), (1036, 37842), (1047, 37827), (1093, 37731), (1099, 37719), (1104, 37710), (1143, 37656),

Gene: Buttrmlkdreams_55 Start: 39095, Stop: 37617, Start Num: 277

Candidate Starts for Buttrmlkdreams_55:

(Start: 277 @39095 has 49 MA's), (328, 39008), (330, 39002), (356, 38951), (388, 38900), (394, 38885), (443, 38801), (453, 38777), (456, 38768), (577, 38645), (596, 38591), (599, 38585), (602, 38579), (622, 38549), (649, 38501), (740, 38387), (772, 38360), (781, 38336), (808, 38255), (815, 38231), (830, 38210), (867, 38171), (875, 38153), (877, 38147), (939, 38036), (942, 38030), (964, 37988), (971, 37970), (1009, 37883), (1013, 37874), (1023, 37853), (1036, 37823), (1055, 37793), (1066, 37760), (1121, 37670),

Gene: Byron23_42 Start: 31117, Stop: 29729, Start Num: 319

Candidate Starts for Byron23_42:

(39, 31768), (163, 31414), (197, 31339), (Start: 319 @31117 has 153 MA's), (405, 30973), (Start: 408 @30967 has 1 MA's), (410, 30964), (471, 30850), (511, 30823), (547, 30763), (572, 30736), (577, 30733), (622, 30637), (644, 30595), (724, 30484), (781, 30424), (797, 30388), (801, 30376), (811, 30343), (817, 30328), (874, 30268), (927, 30172), (960, 30109), (982, 30055), (1023, 29971), (1024, 29965), (1031, 29953), (1077, 29857), (1109, 29803), (1112, 29800), (1128, 29776),

Gene: C3PO_72 Start: 52724, Stop: 50799, Start Num: 74

Candidate Starts for C3PO_72:

(32, 52817), (Start: 74 @52724 has 16 MA's), (134, 52553), (153, 52499), (176, 52445), (269, 52295), (365, 52139), (394, 52088), (Start: 395 @52085 has 1 MA's), (511, 51956), (512, 51953), (548, 51881), (555, 51872), (777, 51515), (788, 51482), (888, 51296), (1012, 51077), (1018, 51065), (1024, 51047), (1040, 51020), (1068, 50957), (1087, 50924), (1135, 50852),

Gene: CMP1_51 Start: 48836, Stop: 47235, Start Num: 282

Candidate Starts for CMP1_51:

(Start: 282 @48836 has 2 MA's), (339, 48719), (400, 48617), (424, 48572), (440, 48548), (446, 48533), (529, 48410), (580, 48326), (611, 48242), (617, 48230), (684, 48110), (732, 48029), (799, 47909), (803, 47897), (817, 47855), (862, 47828), (867, 47813), (871, 47801), (875, 47792), (907, 47747), (939, 47681), (981, 47591), (1004, 47537), (1045, 47456), (1063, 47408), (1098, 47336), (1100, 47333), (1117, 47309), (1122, 47303), (1150, 47261),

Gene: CN1A_14 Start: 6751, Stop: 8316, Start Num: 319

Candidate Starts for CN1A_14:

(Start: 319 @6751 has 153 MA's), (326, 6763), (337, 6793), (Start: 343 @6802 has 1 MA's), (356, 6826), (368, 6844), (381, 6862), (383, 6865), (Start: 387 @6877 has 1 MA's), (399, 6904), (506, 7060), (511, 7069), (520, 7093), (538, 7120), (549, 7147), (590, 7216), (594, 7222), (599, 7234), (611, 7279), (623, 7303), (626, 7309), (646, 7354), (676, 7399), (708, 7456), (772, 7540), (793, 7600), (801, 7627), (802, 7630), (803, 7633), (867, 7735), (869, 7741), (902, 7792), (989, 7984), (995, 8002), (999, 8014), (1026, 8080), (1049, 8122), (1053, 8128), (1062, 8155), (1063, 8161), (1097, 8233), (1133, 8284),

Gene: CWormy_84 Start: 53914, Stop: 55128, Start Num: 295

Candidate Starts for CWormy_84:

(Start: 295 @53914 has 213 MA's), (299, 53920), (Start: 327 @53974 has 23 MA's), (328, 53977), (333, 53989), (359, 54040), (392, 54082), (413, 54124), (433, 54157), (452, 54196), (455, 54202), (518, 54274), (519, 54277), (578, 54337), (623, 54439), (639, 54469), (657, 54496), (671, 54520), (677, 54529), (695, 54559), (698, 54568), (700, 54571), (717, 54595), (720, 54601), (725, 54607), (760, 54634), (765, 54643), (776, 54661), (779, 54670), (781, 54673), (784, 54682), (799, 54727), (807, 54751), (814, 54775), (910, 54820), (1012, 54880), (1018, 54892), (1068, 55000), (1096, 55051), (1115, 55078), (1138, 55111),

Gene: Calix_40 Start: 30802, Stop: 29414, Start Num: 319

Candidate Starts for Calix_40:

(197, 31024), (Start: 319 @30802 has 153 MA's), (405, 30658), (Start: 408 @30652 has 1 MA's), (410, 30649), (471, 30535), (511, 30508), (547, 30448), (572, 30421), (577, 30418), (622, 30322), (644, 30280), (781, 30109), (790, 30088), (797, 30073), (801, 30061), (817, 30013), (874, 29953), (927, 29857), (960, 29794), (982, 29740), (1023, 29656), (1024, 29650), (1031, 29638), (1066, 29563), (1077, 29542), (1109, 29488), (1112, 29485), (1128, 29461),

Gene: Camerico_63 Start: 54751, Stop: 53234, Start Num: 316

Candidate Starts for Camerico_63:

(Start: 316 @54751 has 5 MA's), (Start: 375 @54673 has 28 MA's), (385, 54655), (389, 54643), (Start: 395 @54628 has 1 MA's), (428, 54574), (443, 54556), (445, 54550), (469, 54496), (478, 54478), (491, 54418), (499, 54394), (536, 54313), (560, 54274), (578, 54247), (584, 54226), (595, 54199), (599, 54190), (665, 54058), (679, 54034), (690, 54016), (698, 53998), (703, 53989), (815, 53773), (819, 53767), (856, 53752), (890, 53701), (916, 53647), (990, 53506), (1022, 53440), (1025, 53431), (1045, 53398),

Gene: Camille_59 Start: 41729, Stop: 42970, Start Num: 295

Candidate Starts for Camille_59:

(251, 41660), (256, 41669), (Start: 295 @41729 has 213 MA's), (Start: 318 @41774 has 13 MA's), (358, 41852), (366, 41864), (388, 41897), (397, 41918), (426, 41972), (433, 41984), (455, 42023), (467, 42041), (518, 42095), (586, 42182), (587, 42188), (590, 42197), (677, 42350), (722, 42425), (725, 42428), (796, 42539), (797, 42542), (799, 42548), (807, 42572), (1086, 42851), (1117, 42899),

Gene: Candle_64 Start: 47961, Stop: 49721, Start Num: 183

Candidate Starts for Candle_64:

(Start: 183 @47961 has 10 MA's), (226, 48030), (Start: 294 @48126 has 45 MA's), (299, 48135), (Start: 342 @48216 has 7 MA's), (373, 48261), (509, 48462), (534, 48510), (573, 48570), (580, 48582), (605, 48648), (672, 48771), (688, 48795), (700, 48819), (777, 49023), (788, 49056), (794, 49071), (810, 49110), (811, 49113), (814, 49122), (865, 49191), (885, 49215), (965, 49323), (1009, 49446), (1010, 49449), (1023, 49476), (1037, 49506), (1042, 49512), (1044, 49515), (1054, 49533), (1059, 49545), (1137, 49680), (1159, 49710),

Gene: CanesSauce_52 Start: 38485, Stop: 37007, Start Num: 277

Candidate Starts for CanesSauce_52:

(Start: 277 @38485 has 49 MA's), (330, 38392), (Start: 343 @38365 has 1 MA's), (388, 38290), (Start: 408 @38248 has 1 MA's), (453, 38167), (577, 38035), (596, 37981), (602, 37969), (649, 37891), (740, 37777), (772, 37750), (781, 37726), (794, 37687), (815, 37621), (830, 37600), (875, 37543), (939, 37426), (964, 37378), (971, 37360), (1013, 37264), (1023, 37243), (1036, 37213),

Gene: Canowicakte_29 Start: 22165, Stop: 23559, Start Num: 295

Candidate Starts for Canowicakte_29:

(Start: 295 @22165 has 213 MA's), (328, 22222), (Start: 387 @22327 has 1 MA's), (429, 22414), (509, 22498), (511, 22501), (512, 22504), (580, 22594), (590, 22630), (595, 22639), (599, 22648), (620, 22705), (627, 22723), (650, 22756), (660, 22768), (704, 22837), (719, 22864), (742, 22888), (777, 22930), (788, 22963), (794, 22978), (797, 22987), (904, 23077), (940, 23146), (953, 23173), (963, 23191), (969, 23203), (1009, 23293), (1012, 23299), (1017, 23308), (1019, 23314), (1034, 23350), (1072, 23437), (1113, 23488), (1140, 23527), (1156, 23551),

Gene: CapnMurica_69 Start: 48472, Stop: 49704, Start Num: 294

Candidate Starts for CapnMurica_69:

(Start: 292 @48466 has 28 MA's), (Start: 294 @48472 has 45 MA's), (299, 48481), (312, 48511), (Start: 318 @48520 has 13 MA's), (358, 48598), (388, 48646), (Start: 395 @48664 has 1 MA's), (455, 48778), (518, 48850), (578, 48913), (587, 48943), (622, 49012), (677, 49105), (680, 49111), (700, 49147), (781, 49249), (992, 49426), (1036, 49507), (1057, 49540), (1060, 49552), (1061, 49555), (1096, 49624), (1107, 49642),

Gene: CaptainRex_40 Start: 29071, Stop: 27644, Start Num: 319

Candidate Starts for CaptainRex_40:

(Start: 319 @29071 has 153 MA's), (336, 29041), (339, 29035), (Start: 408 @28921 has 1 MA's), (410, 28918), (572, 28681), (577, 28678), (727, 28423), (778, 28372), (781, 28366), (801, 28318), (811, 28285), (817, 28270), (863, 28198), (874, 28171), (877, 28162), (903, 28117), (905, 28111), (920, 28084), (960, 28012), (991, 27940), (1009, 27904), (1013, 27895), (1020, 27880), (1023, 27874), (1031, 27856), (1055, 27814), (1082, 27751), (1123, 27688), (1128, 27679),

Gene: Captrips_86 Start: 53401, Stop: 54621, Start Num: 295

Candidate Starts for Captrips_86:

(Start: 295 @53401 has 213 MA's), (Start: 327 @53461 has 23 MA's), (328, 53464), (347, 53503), (359, 53527), (392, 53569), (413, 53611), (433, 53644), (452, 53683), (509, 53740), (518, 53761), (578, 53824), (623, 53926), (639, 53956), (650, 53974), (671, 54007), (677, 54016), (717, 54082), (722, 54091), (725, 54094), (765, 54130), (773, 54139), (776, 54148), (781, 54160), (798, 54211), (799, 54214), (814, 54265), (819, 54274), (992, 54343), (1018, 54382), (1068, 54490), (1086, 54523), (1096, 54541), (1105, 54556),

Gene: Capybara_86 Start: 53624, Stop: 54844, Start Num: 295

Candidate Starts for Capybara_86:

(Start: 295 @53624 has 213 MA's), (Start: 327 @53684 has 23 MA's), (328, 53687), (347, 53726), (359, 53750), (392, 53792), (413, 53834), (433, 53867), (452, 53906), (455, 53912), (509, 53963), (518, 53984), (578, 54047), (623, 54149), (639, 54179), (650, 54197), (671, 54230), (677, 54239),

(717, 54305), (722, 54314), (725, 54317), (765, 54353), (773, 54362), (776, 54371), (781, 54383), (798, 54434), (799, 54437), (814, 54488), (819, 54497), (992, 54566), (1018, 54605), (1068, 54713), (1086, 54746), (1096, 54764), (1115, 54791),

Gene: CaramellLatte_52 Start: 38485, Stop: 37007, Start Num: 277

Candidate Starts for CaramellLatte_52:

(Start: 277 @38485 has 49 MA's), (330, 38392), (Start: 343 @38365 has 1 MA's), (388, 38290), (Start: 408 @38248 has 1 MA's), (453, 38167), (577, 38035), (596, 37981), (602, 37969), (649, 37891), (740, 37777), (772, 37750), (781, 37726), (794, 37687), (815, 37621), (830, 37600), (875, 37543), (939, 37426), (964, 37378), (971, 37360), (1013, 37264), (1023, 37243), (1036, 37213),

Gene: CardboardBox_39 Start: 26376, Stop: 24544, Start Num: 75

Candidate Starts for CardboardBox_39:

(Start: 75 @26376 has 19 MA's), (90, 26319), (174, 26118), (248, 25983), (329, 25848), (341, 25821), (438, 25764), (444, 25749), (467, 25695), (519, 25599), (522, 25593), (530, 25578), (557, 25533), (583, 25485), (590, 25464), (599, 25446), (624, 25395), (687, 25302), (693, 25290), (777, 25227), (808, 25155), (840, 25095), (875, 25074), (920, 25008), (933, 24990), (940, 24972), (942, 24969), (961, 24933), (1009, 24825), (1013, 24816), (1044, 24756), (1063, 24708),

Gene: CarisSwetlik_43 Start: 32061, Stop: 30658, Start Num: 319

Candidate Starts for CarisSwetlik_43:

(189, 32295), (212, 32244), (220, 32223), (246, 32172), (256, 32154), (Start: 319 @32061 has 153 MA's), (405, 31917), (Start: 408 @31911 has 1 MA's), (443, 31848), (471, 31794), (511, 31767), (547, 31707), (572, 31680), (577, 31677), (622, 31581), (644, 31539), (777, 31377), (781, 31368), (790, 31347), (801, 31320), (820, 31269), (874, 31212), (903, 31158), (927, 31116), (948, 31071), (1012, 30939), (1023, 30915), (1024, 30909), (1031, 30897), (1077, 30801), (1093, 30774), (1109, 30747), (1152, 30690),

Gene: Carostasia_39 Start: 30625, Stop: 29213, Start Num: 327

Candidate Starts for Carostasia_39:

(Start: 323 @30628 has 8 MA's), (Start: 327 @30625 has 23 MA's), (339, 30595), (Start: 343 @30589 has 1 MA's), (364, 30556), (Start: 408 @30481 has 1 MA's), (411, 30475), (471, 30364), (511, 30337), (540, 30286), (547, 30277), (572, 30250), (577, 30247), (590, 30205), (622, 30151), (727, 29995), (778, 29944), (781, 29938), (790, 29917), (794, 29911), (797, 29902), (801, 29890), (805, 29878), (846, 29800), (874, 29740), (876, 29734), (903, 29686), (925, 29644), (960, 29581), (967, 29569), (976, 29545), (977, 29542), (1009, 29473), (1013, 29464), (1020, 29449), (1023, 29443), (1024, 29437), (1031, 29425), (1082, 29320), (1093, 29302), (1099, 29290), (1131, 29245),

Gene: Carpal_29 Start: 22107, Stop: 23507, Start Num: 295

Candidate Starts for Carpal_29:

(Start: 295 @22107 has 213 MA's), (328, 22170), (Start: 387 @22275 has 1 MA's), (388, 22278), (429, 22362), (452, 22395), (509, 22446), (512, 22452), (575, 22533), (577, 22536), (580, 22542), (590, 22578), (599, 22596), (601, 22599), (610, 22632), (620, 22653), (627, 22671), (650, 22704), (704, 22785), (719, 22812), (754, 22842), (761, 22851), (777, 22878), (788, 22911), (794, 22926), (817, 22980), (860, 23001), (865, 23013), (904, 23025), (1012, 23247), (1017, 23256), (1019, 23262), (1034, 23298), (1063, 23358), (1072, 23385), (1140, 23475),

Gene: Carsonalex_56 Start: 38706, Stop: 37321, Start Num: 330

Candidate Starts for Carsonalex_56:

(271, 38805), (Start: 280 @38796 has 11 MA's), (328, 38712), (330, 38706), (379, 38625), (388, 38604), (454, 38478), (596, 38295), (599, 38289), (602, 38283), (649, 38205), (740, 38091), (772, 38064), (781, 38040), (801, 37980), (815, 37935), (830, 37914), (867, 37875), (875, 37857), (877, 37851), (939, 37740), (964, 37692), (966, 37689), (971, 37674), (1013, 37578), (1023, 37557), (1036,

37527),

Gene: Casablanacas_85 Start: 49567, Stop: 48047, Start Num: 292

Candidate Starts for Casablanacas_85:

(265, 49600), (Start: 292 @49567 has 28 MA's), (Start: 315 @49516 has 2 MA's), (383, 49408), (412, 49342), (449, 49276), (535, 49153), (541, 49138), (578, 49081), (590, 49048), (592, 49045), (623, 48982), (653, 48931), (661, 48922), (665, 48913), (697, 48859), (723, 48820), (745, 48805), (787, 48736), (798, 48706), (821, 48643), (865, 48571), (962, 48385), (1019, 48277), (1032, 48247), (1057, 48202), (1077, 48151), (1120, 48088),

Gene: Casey_37 Start: 29766, Stop: 28396, Start Num: 327

Candidate Starts for Casey_37:

(Start: 327 @29766 has 23 MA's), (400, 29637), (411, 29616), (471, 29505), (472, 29502), (542, 29418), (547, 29412), (563, 29400), (577, 29382), (583, 29361), (622, 29286), (639, 29253), (777, 29082), (778, 29079), (781, 29073), (782, 29070), (797, 29037), (817, 28977), (874, 28917), (876, 28911), (877, 28908), (878, 28905), (925, 28821), (990, 28689), (1009, 28650), (1020, 28626), (1023, 28620), (1031, 28602), (1077, 28506), (1093, 28479), (1099, 28467), (1123, 28434), (1131, 28422),

Gene: Casserole_47 Start: 42008, Stop: 39894, Start Num: 130

Candidate Starts for Casserole_47:

(Start: 130 @42008 has 2 MA's), (143, 41975), (Start: 183 @41894 has 10 MA's), (211, 41837), (215, 41825), (264, 41735), (285, 41708), (Start: 297 @41687 has 15 MA's), (307, 41660), (310, 41657), (337, 41606), (444, 41405), (451, 41390), (456, 41375), (464, 41357), (471, 41345), (476, 41333), (482, 41312), (488, 41264), (489, 41261), (493, 41237), (506, 41195), (509, 41189), (577, 41075), (622, 40952), (650, 40898), (713, 40787), (728, 40766), (734, 40751), (753, 40691), (784, 40616), (785, 40613), (889, 40448), (958, 40328), (1036, 40130), (1042, 40124), (1068, 40064), (1099, 40001), (1121, 39971), (1137, 39947), (1141, 39941),

Gene: Cassita_89 Start: 50170, Stop: 48713, Start Num: 293

Candidate Starts for Cassita_89:

(Start: 293 @50170 has 5 MA's), (Start: 305 @50140 has 1 MA's), (371, 50026), (410, 49954), (414, 49942), (443, 49894), (460, 49852), (506, 49816), (517, 49792), (565, 49720), (569, 49714), (576, 49702), (585, 49675), (594, 49654), (631, 49579), (641, 49561), (699, 49465), (707, 49456), (785, 49351), (808, 49321), (809, 49318), (810, 49312), (814, 49300), (815, 49297), (853, 49237), (860, 49228), (906, 49138), (936, 49084), (954, 49048), (1005, 48967), (1006, 48964), (1010, 48961), (1015, 48952), (1054, 48874), (1057, 48868), (1095, 48790), (1108, 48769), (1127, 48742), (1130, 48739),

Gene: CastorTray_75 Start: 48503, Stop: 49753, Start Num: 294

Candidate Starts for CastorTray_75:

(Start: 294 @48503 has 45 MA's), (299, 48512), (Start: 318 @48551 has 13 MA's), (358, 48629), (388, 48677), (Start: 395 @48695 has 1 MA's), (455, 48809), (518, 48881), (578, 48944), (587, 48974), (622, 49043), (677, 49136), (680, 49142), (700, 49178), (781, 49280), (992, 49457), (998, 49463), (1013, 49487), (1036, 49538), (1057, 49571), (1060, 49583), (1096, 49655),

Gene: Caterpillar_71 Start: 47189, Stop: 48424, Start Num: 294

Candidate Starts for Caterpillar_71:

(Start: 294 @47189 has 45 MA's), (Start: 318 @47237 has 13 MA's), (519, 47570), (578, 47630), (587, 47660), (655, 47786), (677, 47822), (680, 47828), (700, 47864), (781, 47966), (1036, 48227), (1060, 48272), (1061, 48275), (1096, 48344),

Gene: CathyBurgh_59 Start: 52326, Stop: 50794, Start Num: 306

Candidate Starts for CathyBurgh_59:

(177, 52581), (201, 52530), (220, 52479), (248, 52425), (265, 52395), (Start: 290 @52362 has 3 MA's), (Start: 295 @52353 has 213 MA's), (Start: 306 @52326 has 28 MA's), (Start: 395 @52158 has 1 MA's), (416, 52116), (443, 52068), (449, 52056), (453, 52044), (455, 52038), (464, 52017), (479, 51990), (525, 51849), (580, 51762), (583, 51747), (587, 51735), (601, 51705), (622, 51654), (634, 51627), (665, 51576), (679, 51552), (690, 51534), (698, 51516), (700, 51513), (714, 51486), (747, 51444), (776, 51399), (857, 51264), (865, 51249), (883, 51228), (937, 51171), (951, 51147), (982, 51087), (985, 51081), (988, 51075), (990, 51069), (1016, 51018), (1025, 50994), (1048, 50955), (1055, 50943), (1057, 50940), (1099, 50847), (1109, 50832), (1125, 50811),

Gene: Cborch11_63 Start: 46091, Stop: 48148, Start Num: 51

Candidate Starts for Cborch11_63:

(Start: 51 @46091 has 11 MA's), (85, 46151), (86, 46154), (119, 46247), (124, 46259), (129, 46280), (177, 46403), (179, 46406), (182, 46415), (199, 46448), (208, 46469), (225, 46517), (251, 46559), (Start: 297 @46622 has 15 MA's), (Start: 306 @46643 has 28 MA's), (310, 46649), (Start: 342 @46703 has 7 MA's), (453, 46889), (457, 46901), (470, 46919), (509, 46934), (512, 46940), (688, 47258), (690, 47261), (716, 47306), (773, 47357), (777, 47369), (810, 47459), (814, 47471), (835, 47504), (851, 47528), (856, 47537), (942, 47627), (958, 47660), (1008, 47771), (1009, 47774), (1010, 47777), (1012, 47780), (1027, 47816), (1037, 47834), (1068, 47900), (1078, 47918), (1171, 48095),

Gene: Cece_97 Start: 81318, Stop: 79462, Start Num: 67

Candidate Starts for Cece_97:

(Start: 67 @81318 has 1 MA's), (90, 81255), (118, 81186), (156, 81078), (222, 80991), (279, 80901), (299, 80868), (Start: 302 @80862 has 13 MA's), (337, 80790), (430, 80709), (435, 80703), (519, 80544), (596, 80400), (626, 80340), (645, 80310), (688, 80250), (693, 80241), (730, 80184), (777, 80178), (788, 80145), (793, 80133), (808, 80100), (839, 80040), (942, 79911), (944, 79908), (956, 79881), (976, 79839), (984, 79818), (1024, 79731), (1063, 79650), (1084, 79608), (1097, 79584), (1137, 79527),

Gene: Chako_40 Start: 30803, Stop: 29415, Start Num: 319

Candidate Starts for Chako_40:

(39, 31454), (163, 31100), (197, 31025), (Start: 319 @30803 has 153 MA's), (405, 30659), (Start: 408 @30653 has 1 MA's), (410, 30650), (471, 30536), (511, 30509), (547, 30449), (572, 30422), (577, 30419), (622, 30323), (644, 30281), (781, 30110), (790, 30089), (797, 30074), (817, 30014), (874, 29954), (927, 29858), (960, 29795), (982, 29741), (1023, 29657), (1024, 29651), (1031, 29639), (1077, 29543), (1109, 29489), (1112, 29486), (1128, 29462),

Gene: ChamoyPickle_40 Start: 26916, Stop: 25084, Start Num: 75

Candidate Starts for ChamoyPickle_40:

(Start: 75 @26916 has 19 MA's), (90, 26859), (174, 26658), (248, 26523), (329, 26388), (341, 26361), (438, 26304), (444, 26289), (467, 26235), (519, 26139), (522, 26133), (530, 26118), (557, 26073), (583, 26025), (590, 26004), (599, 25986), (624, 25935), (687, 25842), (693, 25830), (777, 25767), (808, 25695), (840, 25635), (875, 25614), (920, 25548), (933, 25530), (940, 25512), (942, 25509), (961, 25473), (1009, 25365), (1013, 25356), (1044, 25296), (1063, 25248),

Gene: Chamuel_40 Start: 30828, Stop: 29407, Start Num: 319

Candidate Starts for Chamuel_40:

(197, 31050), (Start: 319 @30828 has 153 MA's), (405, 30684), (Start: 408 @30678 has 1 MA's), (410, 30675), (471, 30561), (511, 30534), (547, 30474), (572, 30447), (577, 30444), (622, 30348), (644, 30306), (777, 30144), (781, 30135), (790, 30114), (801, 30087), (811, 30054), (817, 30039), (866, 29964), (874, 29946), (927, 29850), (960, 29787), (982, 29733), (1023, 29649), (1024, 29643), (1031, 29631), (1066, 29556), (1077, 29535), (1109, 29481), (1112, 29478), (1128, 29454),

Gene: Charianelly_57 Start: 52738, Stop: 51197, Start Num: 290

Candidate Starts for Charianelly_57:

(177, 52957), (233, 52828), (Start: 290 @52738 has 3 MA's), (Start: 375 @52609 has 28 MA's), (Start: 395 @52564 has 1 MA's), (443, 52474), (444, 52471), (448, 52465), (455, 52444), (483, 52381), (503, 52303), (516, 52273), (525, 52255), (580, 52168), (583, 52153), (601, 52111), (635, 52030), (665, 51982), (690, 51940), (698, 51922), (700, 51919), (714, 51892), (758, 51841), (776, 51805), (794, 51754), (857, 51670), (867, 51649), (982, 51493), (985, 51487), (990, 51475), (1055, 51349), (1109, 51235),

Gene: Charminar_59 Start: 39177, Stop: 41090, Start Num: 58

Candidate Starts for Charminar_59:

(Start: 55 @39174 has 13 MA's), (Start: 58 @39177 has 23 MA's), (Start: 76 @39189 has 2 MA's), (Start: 89 @39237 has 2 MA's), (Start: 103 @39270 has 1 MA's), (155, 39429), (172, 39456), (175, 39465), (219, 39537), (Start: 297 @39657 has 15 MA's), (331, 39720), (Start: 387 @39810 has 1 MA's), (401, 39837), (509, 39966), (519, 39990), (542, 40032), (548, 40044), (562, 40059), (577, 40080), (583, 40101), (590, 40122), (620, 40179), (627, 40197), (652, 40233), (679, 40275), (716, 40335), (788, 40431), (790, 40434), (915, 40611), (951, 40662), (992, 40752), (1009, 40788), (1012, 40794), (1037, 40848), (1059, 40887), (1112, 40989), (1123, 41004), (1137, 41025),

Gene: Cheesy_80 Start: 46569, Stop: 47879, Start Num: 295

Candidate Starts for Cheesy_80:

(Start: 295 @46569 has 213 MA's), (455, 46872), (578, 47007), (587, 47037), (622, 47106), (645, 47151), (671, 47190), (677, 47199), (695, 47229), (722, 47274), (725, 47277), (776, 47331), (778, 47337), (779, 47340), (781, 47343), (785, 47355), (805, 47415), (814, 47445), (1079, 47688), (1089, 47706), (1138, 47778), (1162, 47814),

Gene: Cheeto1_42 Start: 31179, Stop: 29788, Start Num: 319

Candidate Starts for Cheeto1_42:

(Start: 319 @31179 has 153 MA's), (405, 31035), (Start: 408 @31029 has 1 MA's), (443, 30966), (511, 30885), (547, 30825), (572, 30798), (577, 30795), (622, 30699), (644, 30657), (724, 30546), (781, 30486), (790, 30465), (801, 30438), (820, 30387), (863, 30357), (874, 30330), (878, 30318), (927, 30231), (960, 30168), (967, 30156), (991, 30096), (1009, 30060), (1012, 30054), (1020, 30036), (1023, 30030), (1024, 30024), (1055, 29970), (1077, 29916), (1093, 29889), (1099, 29877),

Gene: Chelms_59 Start: 52169, Stop: 50760, Start Num: 375

Candidate Starts for Chelms_59:

(177, 52547), (201, 52496), (220, 52445), (248, 52391), (265, 52361), (Start: 290 @52328 has 3 MA's), (Start: 295 @52319 has 213 MA's), (Start: 306 @52292 has 28 MA's), (Start: 375 @52169 has 28 MA's), (Start: 395 @52124 has 1 MA's), (416, 52082), (443, 52034), (444, 52031), (448, 52025), (449, 52022), (453, 52010), (455, 52004), (479, 51956), (480, 51953), (516, 51833), (525, 51815), (564, 51752), (580, 51728), (583, 51713), (601, 51671), (622, 51620), (634, 51593), (665, 51542), (698, 51482), (700, 51479), (705, 51470), (714, 51452), (747, 51410), (776, 51365), (777, 51362), (857, 51230), (865, 51215), (883, 51194), (951, 51113), (953, 51110), (982, 51053), (985, 51047), (990, 51035), (1016, 50984), (1022, 50969), (1025, 50960), (1048, 50921), (1055, 50909), (1099, 50813), (1109, 50798),

Gene: Chepli_42 Start: 30524, Stop: 29118, Start Num: 319

Candidate Starts for Chepli_42:

(Start: 319 @30524 has 153 MA's), (336, 30494), (407, 30377), (Start: 408 @30374 has 1 MA's), (410, 30371), (424, 30344), (443, 30311), (452, 30290), (471, 30248), (511, 30221), (572, 30134), (577, 30131), (590, 30089), (615, 30038), (727, 29876), (781, 29819), (805, 29759), (808, 29750), (811, 29738), (857, 29699), (860, 29696), (869, 29672), (870, 29669), (874, 29663), (920, 29576), (927, 29567), (929, 29564), (1009, 29396), (1013, 29387), (1020, 29372), (1023, 29366), (1024, 29360), (1031, 29348), (1093, 29225), (1106, 29201), (1128, 29171),

Gene: CherryBlossom_81 Start: 49244, Stop: 50428, Start Num: 295

Candidate Starts for CherryBlossom_81:

(Start: 295 @49244 has 213 MA's), (Start: 318 @49289 has 13 MA's), (333, 49319), (455, 49490), (518, 49562), (547, 49601), (587, 49664), (677, 49826), (698, 49865), (701, 49871), (720, 49898), (781, 49970), (799, 50024), (807, 50048), (814, 50072), (817, 50078), (909, 50102), (978, 50108), (1036, 50222), (1086, 50321), (1089, 50327), (1107, 50357), (1115, 50366), (1153, 50420),

Gene: CherryonLim_57 Start: 41741, Stop: 40263, Start Num: 277

Candidate Starts for CherryonLim_57:

(217, 41822), (Start: 250 @41768 has 2 MA's), (Start: 277 @41741 has 49 MA's), (312, 41678), (330, 41651), (Start: 343 @41624 has 1 MA's), (379, 41570), (388, 41549), (394, 41534), (401, 41519), (456, 41414), (577, 41291), (596, 41237), (599, 41231), (602, 41225), (649, 41147), (740, 41033), (794, 40943), (797, 40934), (801, 40922), (808, 40901), (812, 40886), (815, 40877), (830, 40856), (867, 40817), (870, 40808), (877, 40793), (919, 40721), (940, 40673), (942, 40670), (964, 40628), (971, 40610), (1013, 40514), (1036, 40463), (1055, 40433), (1066, 40400), (1097, 40343), (1106, 40328),

Gene: ChewChew_25 Start: 20575, Stop: 21969, Start Num: 295

Candidate Starts for ChewChew_25:

(Start: 295 @20575 has 213 MA's), (328, 20632), (Start: 387 @20737 has 1 MA's), (388, 20740), (429, 20824), (452, 20857), (509, 20908), (512, 20914), (575, 20995), (577, 20998), (580, 21004), (590, 21040), (599, 21058), (601, 21061), (610, 21094), (620, 21115), (704, 21247), (719, 21274), (761, 21313), (775, 21334), (777, 21340), (788, 21373), (794, 21388), (797, 21397), (817, 21442), (866, 21478), (924, 21520), (953, 21583), (963, 21601), (1009, 21703), (1010, 21706), (1019, 21724), (1020, 21727), (1031, 21751), (1034, 21760), (1072, 21847), (1140, 21937), (1156, 21961),

Gene: ChewyVIII_83 Start: 61890, Stop: 59662, Start Num: 38

Candidate Starts for ChewyVIII_83:

(Start: 38 @61890 has 1 MA's), (153, 61581), (175, 61530), (198, 61485), (269, 61377), (Start: 306 @61323 has 28 MA's), (325, 61293), (336, 61269), (356, 61233), (372, 61212), (391, 61173), (394, 61167), (490, 60918), (548, 60777), (555, 60768), (580, 60735), (583, 60720), (606, 60666), (629, 60621), (648, 60597), (751, 60450), (764, 60432), (777, 60414), (790, 60378), (811, 60324), (819, 60306), (888, 60195), (921, 60153), (965, 60063), (1009, 59958), (1018, 59940), (1060, 59853), (1071, 59823), (1078, 59814), (1109, 59763), (1126, 59739), (1133, 59730), (1149, 59706), (1163, 59688),

Gene: ChickenKing_40 Start: 31093, Stop: 29702, Start Num: 319

Candidate Starts for ChickenKing_40:

(Start: 319 @31093 has 153 MA's), (405, 30949), (Start: 408 @30943 has 1 MA's), (443, 30880), (511, 30799), (547, 30739), (572, 30712), (577, 30709), (580, 30703), (622, 30613), (644, 30571), (781, 30400), (790, 30379), (797, 30364), (801, 30352), (820, 30301), (874, 30244), (878, 30232), (960, 30082), (967, 30070), (991, 30010), (1009, 29974), (1012, 29968), (1020, 29950), (1023, 29944), (1024, 29938), (1055, 29884), (1066, 29851), (1077, 29830), (1099, 29791),

Gene: ChickenTender_56 Start: 38517, Stop: 37042, Start Num: 277

Candidate Starts for ChickenTender_56:

(Start: 277 @38517 has 49 MA's), (330, 38427), (379, 38346), (388, 38325), (453, 38202), (454, 38199), (596, 38016), (599, 38010), (602, 38004), (649, 37926), (740, 37812), (772, 37785), (781, 37761), (801, 37701), (815, 37656), (830, 37635), (875, 37578), (939, 37461), (964, 37413), (966, 37410), (1013, 37299), (1023, 37278), (1028, 37266), (1036, 37248),

Gene: ChickyNuggy_89 Start: 53792, Stop: 55012, Start Num: 295

Candidate Starts for ChickyNuggy_89:

(Start: 295 @53792 has 213 MA's), (Start: 327 @53852 has 23 MA's), (328, 53855), (347, 53894), (359, 53918), (392, 53960), (413, 54002), (429, 54029), (433, 54035), (452, 54074), (455, 54080), (518, 54152), (578, 54215), (623, 54317), (639, 54347), (650, 54365), (671, 54398), (677, 54407), (717, 54473), (722, 54482), (725, 54485), (765, 54521), (773, 54530), (776, 54539), (781, 54551), (798, 54602), (799, 54605), (814, 54656), (819, 54665), (992, 54734), (1018, 54773), (1068, 54881), (1096, 54932), (1105, 54947),

Gene: ChikPic_40 Start: 30953, Stop: 29541, Start Num: 327

Candidate Starts for ChikPic_40:

(Start: 323 @30956 has 8 MA's), (Start: 327 @30953 has 23 MA's), (339, 30923), (Start: 343 @30917 has 1 MA's), (364, 30884), (471, 30692), (511, 30665), (547, 30605), (572, 30578), (577, 30575), (590, 30533), (622, 30479), (644, 30437), (727, 30323), (781, 30266), (790, 30245), (797, 30230), (801, 30218), (805, 30206), (806, 30203), (811, 30185), (857, 30104), (874, 30068), (903, 30014), (925, 29972), (940, 29942), (953, 29918), (957, 29912), (977, 29870), (1009, 29801), (1020, 29777), (1023, 29771), (1024, 29765), (1031, 29753), (1077, 29657), (1082, 29648), (1093, 29630), (1099, 29618), (1131, 29573),

Gene: Chikenjars_87 Start: 55382, Stop: 56596, Start Num: 295

Candidate Starts for Chikenjars_87:

(Start: 295 @55382 has 213 MA's), (299, 55388), (Start: 327 @55442 has 23 MA's), (328, 55445), (333, 55457), (347, 55484), (349, 55487), (359, 55508), (392, 55550), (413, 55592), (433, 55625), (452, 55664), (518, 55742), (519, 55745), (578, 55805), (623, 55907), (657, 55964), (673, 55991), (677, 55997), (698, 56036), (717, 56063), (720, 56069), (725, 56075), (760, 56102), (765, 56111), (776, 56129), (779, 56138), (781, 56141), (784, 56150), (807, 56219), (814, 56243), (865, 56273), (1068, 56468), (1096, 56519), (1115, 56546), (1138, 56579),

Gene: Chill_55 Start: 39836, Stop: 41779, Start Num: 65

Candidate Starts for Chill_55:

(Start: 65 @39836 has 24 MA's), (80, 39863), (104, 39935), (121, 39989), (140, 40049), (146, 40067), (151, 40076), (174, 40127), (193, 40169), (219, 40205), (269, 40292), (329, 40385), (335, 40400), (347, 40421), (414, 40523), (438, 40556), (450, 40580), (512, 40640), (562, 40727), (596, 40802), (652, 40892), (688, 40943), (690, 40946), (764, 41036), (777, 41054), (788, 41087), (810, 41141), (814, 41153), (824, 41171), (865, 41234), (939, 41318), (992, 41435), (1009, 41483), (1040, 41546), (1078, 41630),

Gene: Chilliams_99 Start: 73536, Stop: 75392, Start Num: 71

Candidate Starts for Chilliams_99:

(Start: 71 @73536 has 13 MA's), (150, 73752), (169, 73794), (172, 73800), (208, 73833), (239, 73902), (248, 73917), (269, 73953), (Start: 297 @73992 has 15 MA's), (337, 74073), (435, 74133), (509, 74268), (665, 74550), (693, 74595), (777, 74658), (788, 74691), (793, 74703), (811, 74751), (819, 74769), (862, 74814), (878, 74835), (888, 74856), (920, 74895), (939, 74928), (956, 74964), (965, 74979), (976, 75006), (991, 75042), (993, 75048), (1054, 75165), (1063, 75195), (1149, 75336),

Gene: Chipper1996_910 Start: 59054, Stop: 60799, Start Num: 158

Candidate Starts for Chipper1996_910:

(Start: 158 @59054 has 18 MA's), (168, 59075), (205, 59153), (214, 59177), (236, 59222), (251, 59246), (Start: 278 @59285 has 3 MA's), (366, 59444), (Start: 375 @59453 has 28 MA's), (394, 59495), (405, 59516), (430, 59549), (435, 59555), (438, 59558), (444, 59573), (452, 59588), (527, 59675), (534, 59687), (538, 59693), (563, 59729), (578, 59753), (582, 59765), (652, 59897), (710, 59981), (724, 60002), (741, 60014), (759, 60029), (761, 60032), (777, 60056), (787, 60080), (793, 60092), (812, 60149), (856, 60194), (885, 60260), (893, 60272), (898, 60281), (907, 60305), (909, 60308), (928, 60344), (932, 60350), (940, 60374), (980, 60455), (981, 60461), (989, 60479), (998, 60506), (1002, 60512), (1019, 60542), (1021, 60548), (1053, 60608), (1073, 60659), (1076, 60665),

(1099, 60704),

Gene: ChipsNGuac_38 Start: 26376, Stop: 24544, Start Num: 75

Candidate Starts for ChipsNGuac_38:

(Start: 75 @26376 has 19 MA's), (90, 26319), (174, 26118), (248, 25983), (329, 25848), (341, 25821), (438, 25764), (444, 25749), (467, 25695), (519, 25599), (522, 25593), (530, 25578), (557, 25533), (583, 25485), (590, 25464), (599, 25446), (624, 25395), (687, 25302), (693, 25290), (777, 25227), (808, 25155), (840, 25095), (875, 25074), (920, 25008), (933, 24990), (940, 24972), (942, 24969), (961, 24933), (1009, 24825), (1013, 24816), (1044, 24756), (1063, 24708),

Gene: Chivey_40 Start: 25169, Stop: 27076, Start Num: 68

Candidate Starts for Chivey_40:

(17, 24995), (Start: 68 @25169 has 36 MA's), (93, 25232), (106, 25253), (122, 25307), (176, 25442), (199, 25484), (229, 25529), (335, 25703), (339, 25712), (394, 25802), (415, 25844), (422, 25859), (543, 26045), (620, 26180), (624, 26192), (650, 26225), (777, 26354), (824, 26471), (993, 26744), (1010, 26783), (1037, 26843), (1080, 26933), (1097, 26963), (1126, 27005), (1163, 27056),

Gene: Chlochlo_78 Start: 48038, Stop: 49270, Start Num: 294

Candidate Starts for Chlochlo_78:

(Start: 294 @48038 has 45 MA's), (Start: 297 @48044 has 15 MA's), (Start: 302 @48050 has 13 MA's), (Start: 318 @48083 has 13 MA's), (388, 48209), (455, 48341), (578, 48476), (587, 48506), (677, 48668), (680, 48674), (700, 48710), (781, 48812), (998, 48998), (1036, 49073), (1057, 49106), (1060, 49118), (1096, 49190),

Gene: ChocoMunchkin_52 Start: 38485, Stop: 37007, Start Num: 277

Candidate Starts for ChocoMunchkin_52:

(Start: 277 @38485 has 49 MA's), (330, 38392), (Start: 343 @38365 has 1 MA's), (388, 38290), (Start: 408 @38248 has 1 MA's), (453, 38167), (577, 38035), (596, 37981), (602, 37969), (649, 37891), (740, 37777), (772, 37750), (781, 37726), (794, 37687), (815, 37621), (830, 37600), (875, 37543), (939, 37426), (964, 37378), (971, 37360), (1013, 37264), (1023, 37243), (1036, 37213),

Gene: Chocolat_90 Start: 58761, Stop: 60506, Start Num: 158

Candidate Starts for Chocolat_90:

(Start: 158 @58761 has 18 MA's), (168, 58782), (205, 58860), (214, 58884), (236, 58929), (251, 58953), (Start: 278 @58992 has 3 MA's), (366, 59151), (Start: 375 @59160 has 28 MA's), (394, 59202), (405, 59223), (430, 59256), (435, 59262), (438, 59265), (444, 59280), (452, 59295), (527, 59382), (534, 59394), (538, 59400), (563, 59436), (578, 59460), (582, 59472), (652, 59604), (710, 59688), (724, 59709), (741, 59721), (759, 59736), (761, 59739), (777, 59763), (787, 59787), (793, 59799), (812, 59856), (856, 59901), (885, 59967), (893, 59979), (898, 59988), (907, 60012), (909, 60015), (928, 60051), (932, 60057), (940, 60081), (980, 60162), (981, 60168), (989, 60186), (998, 60213), (1002, 60219), (1019, 60249), (1021, 60255), (1053, 60315), (1073, 60366), (1076, 60372), (1099, 60411),

Gene: Cholula_29 Start: 22153, Stop: 23553, Start Num: 295

Candidate Starts for Cholula_29:

(Start: 295 @22153 has 213 MA's), (328, 22216), (Start: 387 @22321 has 1 MA's), (388, 22324), (429, 22408), (452, 22441), (509, 22492), (512, 22498), (575, 22579), (577, 22582), (580, 22588), (590, 22624), (599, 22642), (601, 22645), (620, 22699), (650, 22750), (704, 22831), (719, 22858), (754, 22888), (761, 22897), (777, 22924), (788, 22957), (794, 22972), (817, 23026), (860, 23047), (865, 23059), (904, 23071), (1012, 23293), (1017, 23302), (1019, 23308), (1034, 23344), (1063, 23404), (1072, 23431), (1140, 23521),

Gene: Chridison_26 Start: 21746, Stop: 23140, Start Num: 295

Candidate Starts for Chridison_26:

(Start: 295 @21746 has 213 MA's), (328, 21803), (379, 21890), (Start: 387 @21908 has 1 MA's), (388, 21911), (429, 21995), (452, 22028), (509, 22079), (512, 22085), (547, 22145), (580, 22175), (590, 22211), (599, 22229), (620, 22286), (627, 22304), (630, 22310), (650, 22337), (704, 22418), (719, 22445), (742, 22469), (761, 22484), (777, 22511), (788, 22544), (794, 22559), (808, 22586), (940, 22727), (953, 22754), (961, 22766), (969, 22784), (985, 22826), (1009, 22874), (1012, 22880), (1019, 22895), (1020, 22898), (1034, 22931), (1063, 22991), (1072, 23018), (1117, 23075), (1140, 23108), (1156, 23132),

Gene: Christian_25 Start: 20576, Stop: 21970, Start Num: 295

Candidate Starts for Christian_25:

(Start: 295 @20576 has 213 MA's), (328, 20633), (Start: 387 @20738 has 1 MA's), (388, 20741), (429, 20825), (452, 20858), (512, 20915), (575, 20996), (577, 20999), (580, 21005), (590, 21041), (599, 21059), (601, 21062), (610, 21095), (620, 21116), (704, 21248), (719, 21275), (761, 21314), (775, 21335), (777, 21341), (788, 21374), (794, 21389), (797, 21398), (817, 21443), (866, 21479), (924, 21521), (953, 21584), (963, 21602), (1009, 21704), (1010, 21707), (1019, 21725), (1020, 21728), (1031, 21752), (1034, 21761), (1072, 21848), (1140, 21938), (1156, 21962),

Gene: Christoph_40 Start: 30815, Stop: 29427, Start Num: 319

Candidate Starts for Christoph_40:

(197, 31037), (Start: 319 @30815 has 153 MA's), (405, 30671), (Start: 408 @30665 has 1 MA's), (410, 30662), (471, 30548), (511, 30521), (547, 30461), (572, 30434), (577, 30431), (622, 30335), (644, 30293), (781, 30122), (790, 30101), (797, 30086), (817, 30026), (874, 29966), (927, 29870), (960, 29807), (982, 29753), (1023, 29669), (1024, 29663), (1031, 29651), (1077, 29555), (1109, 29501), (1112, 29498), (1128, 29474),

Gene: Chubster_90 Start: 58968, Stop: 60713, Start Num: 158

Candidate Starts for Chubster_90:

(Start: 158 @58968 has 18 MA's), (168, 58989), (205, 59067), (214, 59091), (236, 59136), (251, 59160), (Start: 278 @59199 has 3 MA's), (366, 59358), (Start: 375 @59367 has 28 MA's), (394, 59409), (405, 59430), (430, 59463), (435, 59469), (438, 59472), (444, 59487), (452, 59502), (527, 59589), (534, 59601), (538, 59607), (563, 59643), (578, 59667), (582, 59679), (652, 59811), (710, 59895), (724, 59916), (741, 59928), (759, 59943), (761, 59946), (777, 59970), (787, 59994), (790, 60000), (793, 60006), (812, 60063), (856, 60108), (885, 60174), (893, 60186), (898, 60195), (907, 60219), (909, 60222), (928, 60258), (932, 60264), (940, 60288), (980, 60369), (981, 60375), (989, 60393), (998, 60420), (1002, 60426), (1019, 60456), (1021, 60462), (1053, 60522), (1073, 60573), (1076, 60579), (1099, 60618),

Gene: Cicada_35 Start: 23458, Stop: 24885, Start Num: 298

Candidate Starts for Cicada_35:

(Start: 298 @23458 has 19 MA's), (464, 23776), (511, 23815), (547, 23878), (583, 23923), (590, 23944), (630, 24043), (740, 24211), (777, 24259), (785, 24280), (794, 24307), (807, 24334), (817, 24364), (819, 24367), (821, 24370), (903, 24406), (944, 24484), (981, 24568), (991, 24586), (992, 24589), (1034, 24676), (1043, 24688), (1061, 24727), (1072, 24763), (1075, 24769), (1113, 24814), (1134, 24844),

Gene: CinnamonToast_65 Start: 53852, Stop: 52284, Start Num: 290

Candidate Starts for CinnamonToast_65:

(177, 54071), (201, 54020), (233, 53942), (248, 53915), (265, 53885), (Start: 290 @53852 has 3 MA's), (Start: 295 @53843 has 213 MA's), (Start: 306 @53816 has 28 MA's), (Start: 395 @53648 has 1 MA's), (416, 53606), (426, 53588), (443, 53558), (449, 53546), (455, 53528), (479, 53480), (525, 53339), (580, 53252), (583, 53237), (587, 53225), (601, 53195), (622, 53144), (665, 53066), (679, 53042), (690, 53024), (698, 53006), (700, 53003), (705, 52994), (714, 52976), (776, 52889), (857,

52754), (865, 52739), (883, 52718), (937, 52661), (951, 52637), (953, 52634), (982, 52577), (985, 52571), (990, 52559), (1016, 52508), (1025, 52484), (1048, 52445), (1055, 52433), (1057, 52430), (1099, 52337), (1109, 52322), (1125, 52301),

Gene: Circum_80 Start: 47002, Stop: 48312, Start Num: 295

Candidate Starts for Circum_80:

(Start: 295 @47002 has 213 MA's), (578, 47440), (587, 47470), (622, 47539), (645, 47584), (671, 47623), (677, 47632), (695, 47662), (701, 47677), (722, 47707), (725, 47710), (765, 47746), (776, 47764), (778, 47770), (779, 47773), (781, 47776), (785, 47788), (798, 47827), (805, 47848), (814, 47878), (1009, 47974), (1079, 48121), (1089, 48139), (1138, 48211), (1162, 48247),

Gene: Citrus_85 Start: 54975, Stop: 56189, Start Num: 295

Candidate Starts for Citrus_85:

(Start: 295 @54975 has 213 MA's), (299, 54981), (Start: 327 @55035 has 23 MA's), (333, 55050), (347, 55077), (349, 55080), (359, 55101), (392, 55143), (413, 55185), (433, 55218), (452, 55257), (518, 55335), (519, 55338), (578, 55398), (623, 55500), (639, 55530), (657, 55557), (671, 55581), (677, 55590), (695, 55620), (698, 55629), (700, 55632), (717, 55656), (725, 55668), (760, 55695), (765, 55704), (776, 55722), (779, 55731), (781, 55734), (784, 55743), (799, 55788), (807, 55812), (814, 55836), (865, 55866), (1018, 55953), (1068, 56061), (1096, 56112), (1115, 56139), (1138, 56172),

Gene: Clancy_40 Start: 30848, Stop: 29460, Start Num: 319

Candidate Starts for Clancy_40:

(39, 31499), (163, 31145), (197, 31070), (Start: 319 @30848 has 153 MA's), (405, 30704), (Start: 408 @30698 has 1 MA's), (410, 30695), (471, 30581), (511, 30554), (547, 30494), (572, 30467), (577, 30464), (622, 30368), (644, 30326), (781, 30155), (790, 30134), (797, 30119), (817, 30059), (874, 29999), (927, 29903), (960, 29840), (982, 29786), (1023, 29702), (1024, 29696), (1031, 29684), (1077, 29588), (1109, 29534), (1112, 29531), (1128, 29507),

Gene: Cleo_47 Start: 37658, Stop: 36168, Start Num: 277

Candidate Starts for Cleo_47:

(Start: 277 @37658 has 49 MA's), (Start: 303 @37616 has 4 MA's), (328, 37574), (330, 37568), (Start: 343 @37541 has 1 MA's), (379, 37487), (383, 37481), (394, 37451), (Start: 408 @37424 has 1 MA's), (453, 37343), (454, 37340), (456, 37334), (465, 37313), (532, 37247), (577, 37211), (584, 37187), (596, 37157), (599, 37151), (602, 37145), (649, 37067), (762, 36935), (772, 36926), (799, 36848), (811, 36809), (815, 36797), (817, 36794), (857, 36758), (866, 36740), (867, 36737), (868, 36734), (875, 36719), (886, 36692), (894, 36680), (907, 36647), (940, 36578), (964, 36533), (966, 36530), (981, 36488), (988, 36473), (1010, 36425), (1013, 36419), (1036, 36368), (1085, 36272), (1097, 36248), (1121, 36215), (1143, 36182), (1146, 36179),

Gene: Clock_40 Start: 31950, Stop: 30520, Start Num: 318

Candidate Starts for Clock_40:

(Start: 318 @31950 has 13 MA's), (336, 31917), (364, 31872), (Start: 408 @31797 has 1 MA's), (410, 31794), (504, 31662), (508, 31650), (572, 31557), (577, 31554), (778, 31248), (781, 31242), (790, 31221), (801, 31194), (805, 31182), (806, 31179), (811, 31161), (848, 31104), (874, 31047), (878, 31035), (903, 30993), (920, 30960), (927, 30951), (937, 30927), (960, 30888), (982, 30834), (1009, 30780), (1013, 30771), (1020, 30756), (1023, 30750), (1082, 30627), (1093, 30609), (1106, 30585),

Gene: ClubPenguin_86 Start: 50065, Stop: 51252, Start Num: 297

Candidate Starts for ClubPenguin_86:

(Start: 297 @50065 has 15 MA's), (347, 50164), (578, 50455), (594, 50500), (622, 50554), (677, 50647), (725, 50725), (781, 50791), (784, 50800), (785, 50803), (799, 50845), (807, 50869), (814, 50893), (1086, 51142), (1105, 51175), (1107, 51178), (1147, 51232), (1157, 51247),

Gene: CocoaPuff_56 Start: 40198, Stop: 38810, Start Num: 330

Candidate Starts for CocoaPuff_56:

(217, 40366), (248, 40315), (Start: 250 @40312 has 2 MA's), (Start: 277 @40288 has 49 MA's), (312, 40225), (328, 40204), (330, 40198), (Start: 343 @40171 has 1 MA's), (379, 40117), (394, 40081), (401, 40066), (453, 39970), (456, 39961), (465, 39940), (532, 39874), (577, 39838), (596, 39784), (599, 39778), (602, 39772), (649, 39694), (661, 39679), (740, 39580), (788, 39505), (797, 39481), (801, 39469), (808, 39448), (812, 39433), (815, 39424), (830, 39403), (867, 39364), (870, 39355), (877, 39340), (907, 39289), (942, 39217), (964, 39175), (966, 39172), (971, 39157), (1013, 39061), (1036, 39010), (1055, 38980), (1066, 38947), (1097, 38890), (1106, 38875),

Gene: CoffeeBean_72 Start: 53090, Stop: 51054, Start Num: 36

Candidate Starts for CoffeeBean_72:

(11, 53258), (Start: 36 @53090 has 6 MA's), (62, 53024), (85, 52982), (123, 52877), (198, 52697), (239, 52640), (269, 52589), (283, 52574), (335, 52484), (341, 52472), (394, 52379), (444, 52307), (512, 52238), (548, 52166), (583, 52109), (688, 51929), (700, 51905), (751, 51842), (777, 51806), (810, 51719), (888, 51587), (920, 51548), (921, 51545), (942, 51500), (1009, 51353), (1040, 51290), (1060, 51248), (1078, 51209), (1093, 51185),

Gene: ColaCorta_40 Start: 31099, Stop: 29687, Start Num: 327

Candidate Starts for ColaCorta_40:

(Start: 327 @31099 has 23 MA's), (339, 31069), (Start: 343 @31063 has 1 MA's), (364, 31030), (471, 30838), (511, 30811), (547, 30751), (572, 30724), (577, 30721), (590, 30679), (622, 30625), (644, 30583), (727, 30469), (781, 30412), (790, 30391), (797, 30376), (801, 30364), (805, 30352), (806, 30349), (811, 30331), (857, 30250), (874, 30214), (903, 30160), (925, 30118), (940, 30088), (953, 30064), (957, 30058), (977, 30016), (1009, 29947), (1020, 29923), (1023, 29917), (1024, 29911), (1031, 29899), (1077, 29803), (1082, 29794), (1093, 29776), (1099, 29764), (1131, 29719),

Gene: Colucci_93 Start: 59340, Stop: 61085, Start Num: 158

Candidate Starts for Colucci_93:

(113, 59187), (Start: 158 @59340 has 18 MA's), (168, 59361), (171, 59367), (205, 59439), (214, 59463), (236, 59508), (Start: 278 @59571 has 3 MA's), (366, 59730), (Start: 375 @59739 has 28 MA's), (394, 59781), (405, 59802), (435, 59841), (438, 59844), (444, 59859), (452, 59874), (527, 59961), (534, 59973), (538, 59979), (578, 60039), (582, 60051), (652, 60183), (667, 60207), (710, 60267), (724, 60288), (741, 60300), (759, 60315), (761, 60318), (777, 60342), (787, 60366), (793, 60378), (795, 60384), (804, 60414), (812, 60435), (856, 60480), (898, 60567), (907, 60591), (928, 60630), (932, 60636), (940, 60660), (980, 60741), (989, 60765), (1002, 60798), (1019, 60828), (1021, 60834), (1053, 60894), (1073, 60945), (1076, 60951), (1099, 60990),

Gene: Commandaria_72 Start: 56463, Stop: 54385, Start Num: 35

Candidate Starts for Commandaria_72:

(Start: 35 @56463 has 35 MA's), (64, 56391), (108, 56277), (193, 56058), (198, 56049), (199, 56046), (269, 55941), (Start: 306 @55887 has 28 MA's), (341, 55824), (394, 55734), (441, 55671), (443, 55665), (542, 55533), (553, 55515), (688, 55260), (700, 55236), (777, 55134), (796, 55080), (805, 55065), (807, 55059), (847, 54984), (876, 54945), (921, 54876), (940, 54840), (942, 54837), (956, 54807), (976, 54765), (1009, 54690), (1040, 54627), (1078, 54546), (1133, 54462), (1149, 54438),

Gene: Commonplace_74 Start: 46896, Stop: 45316, Start Num: 242

Candidate Starts for Commonplace_74:

(Start: 242 @46896 has 2 MA's), (274, 46845), (285, 46830), (333, 46737), (339, 46722), (357, 46692), (370, 46677), (390, 46653), (404, 46626), (435, 46581), (454, 46542), (460, 46527), (511, 46485), (539, 46431), (580, 46368), (619, 46278), (636, 46242), (679, 46185), (692, 46164), (759, 46080), (785, 46029), (822, 45936), (833, 45921), (849, 45897), (860, 45882), (862, 45879), (870, 45855),

(872, 45849), (878, 45834), (929, 45750), (936, 45729), (938, 45726), (952, 45696), (954, 45693), (983, 45624), (989, 45612), (1007, 45570), (1010, 45564), (1027, 45525), (1040, 45501), (1077, 45420), (1103, 45378), (1105, 45375),

Gene: Conboy_88 Start: 58510, Stop: 60255, Start Num: 158

Candidate Starts for Conboy_88:

(Start: 158 @58510 has 18 MA's), (168, 58531), (205, 58609), (214, 58633), (236, 58678), (251, 58702), (Start: 278 @58741 has 3 MA's), (366, 58900), (Start: 375 @58909 has 28 MA's), (394, 58951), (405, 58972), (430, 59005), (435, 59011), (438, 59014), (444, 59029), (452, 59044), (527, 59131), (534, 59143), (538, 59149), (563, 59185), (578, 59209), (582, 59221), (652, 59353), (710, 59437), (724, 59458), (741, 59470), (759, 59485), (761, 59488), (777, 59512), (787, 59536), (793, 59548), (812, 59605), (856, 59650), (885, 59716), (893, 59728), (898, 59737), (907, 59761), (909, 59764), (928, 59800), (932, 59806), (940, 59830), (980, 59911), (981, 59917), (989, 59935), (998, 59962), (1002, 59968), (1019, 59998), (1021, 60004), (1053, 60064), (1073, 60115), (1076, 60121), (1099, 60160),

Gene: Conley_84 Start: 53935, Stop: 55155, Start Num: 295

Candidate Starts for Conley_84:

(Start: 295 @53935 has 213 MA's), (328, 53998), (413, 54145), (452, 54217), (467, 54241), (580, 54361), (590, 54397), (623, 54460), (639, 54490), (650, 54508), (671, 54541), (677, 54550), (682, 54559), (717, 54616), (722, 54625), (765, 54664), (773, 54673), (776, 54682), (781, 54694), (798, 54745), (799, 54748), (814, 54799), (819, 54808), (992, 54877), (1018, 54916), (1068, 55024), (1096, 55075),

Gene: Convict_41 Start: 31118, Stop: 29730, Start Num: 319

Candidate Starts for Convict_41:

(39, 31769), (163, 31415), (197, 31340), (Start: 319 @31118 has 153 MA's), (405, 30974), (Start: 408 @30968 has 1 MA's), (410, 30965), (471, 30851), (511, 30824), (547, 30764), (572, 30737), (577, 30734), (622, 30638), (644, 30596), (781, 30425), (790, 30404), (801, 30377), (817, 30329), (874, 30269), (960, 30110), (982, 30056), (1023, 29972), (1024, 29966), (1031, 29954), (1077, 29858), (1109, 29804), (1112, 29801), (1128, 29777),

Gene: CoolCookie_40 Start: 25941, Stop: 27848, Start Num: 68

Candidate Starts for CoolCookie_40:

(Start: 68 @25941 has 36 MA's), (93, 26004), (106, 26025), (122, 26079), (199, 26256), (229, 26301), (335, 26475), (339, 26484), (394, 26574), (422, 26631), (543, 26817), (620, 26952), (624, 26964), (650, 26997), (777, 27126), (824, 27243), (888, 27318), (1009, 27552), (1010, 27555), (1037, 27615), (1080, 27705), (1097, 27735), (1126, 27777), (1163, 27828),

Gene: CoraRita_40 Start: 30818, Stop: 29430, Start Num: 319

Candidate Starts for CoraRita_40:

(39, 31469), (163, 31115), (197, 31040), (Start: 319 @30818 has 153 MA's), (405, 30674), (Start: 408 @30668 has 1 MA's), (410, 30665), (471, 30551), (511, 30524), (547, 30464), (572, 30437), (577, 30434), (622, 30338), (644, 30296), (781, 30125), (790, 30104), (797, 30089), (817, 30029), (874, 29969), (927, 29873), (960, 29810), (982, 29756), (1023, 29672), (1024, 29666), (1031, 29654), (1077, 29558), (1109, 29504), (1112, 29501), (1128, 29477),

Gene: Correa_77 Start: 45960, Stop: 47270, Start Num: 295

Candidate Starts for Correa_77:

(Start: 295 @45960 has 213 MA's), (578, 46398), (587, 46428), (622, 46497), (645, 46542), (671, 46581), (677, 46590), (695, 46620), (722, 46665), (725, 46668), (765, 46704), (776, 46722), (778, 46728), (779, 46731), (781, 46734), (785, 46746), (805, 46806), (814, 46836), (1079, 47079), (1089, 47097), (1138, 47169), (1162, 47205),

Gene: Count_93 Start: 60037, Stop: 61344, Start Num: 297

Candidate Starts for Count_93:

(Start: 297 @60037 has 15 MA's), (Start: 303 @60049 has 4 MA's), (Start: 318 @60079 has 13 MA's), (355, 60151), (366, 60169), (376, 60178), (388, 60202), (392, 60214), (Start: 395 @60220 has 1 MA's), (419, 60268), (452, 60322), (587, 60493), (639, 60595), (645, 60607), (677, 60655), (700, 60697), (725, 60733), (805, 60871), (814, 60901), (1012, 61003), (1117, 61204), (1170, 61306),

Gene: Cozz_51 Start: 38430, Stop: 36952, Start Num: 277

Candidate Starts for Cozz_51:

(Start: 277 @38430 has 49 MA's), (328, 38343), (330, 38337), (379, 38256), (388, 38235), (454, 38109), (596, 37926), (599, 37920), (602, 37914), (649, 37836), (740, 37722), (772, 37695), (781, 37671), (801, 37611), (815, 37566), (830, 37545), (867, 37506), (875, 37488), (939, 37371), (964, 37323), (966, 37320), (971, 37305), (1013, 37209), (1023, 37188), (1036, 37158), (1146, 36969),

Gene: Crestdrop_40 Start: 25203, Stop: 27110, Start Num: 68

Candidate Starts for Crestdrop_40:

(17, 25029), (Start: 68 @25203 has 36 MA's), (93, 25266), (106, 25287), (122, 25341), (176, 25476), (199, 25518), (229, 25563), (335, 25737), (339, 25746), (394, 25836), (415, 25878), (422, 25893), (543, 26079), (620, 26214), (624, 26226), (650, 26259), (777, 26388), (824, 26505), (993, 26778), (1010, 26817), (1037, 26877), (1080, 26967), (1097, 26997), (1126, 27039), (1163, 27090),

Gene: Crete_60 Start: 52291, Stop: 50882, Start Num: 375

Candidate Starts for Crete_60:

(177, 52669), (201, 52618), (220, 52567), (248, 52513), (265, 52483), (Start: 290 @52450 has 3 MA's), (Start: 295 @52441 has 213 MA's), (Start: 306 @52414 has 28 MA's), (Start: 375 @52291 has 28 MA's), (Start: 395 @52246 has 1 MA's), (416, 52204), (443, 52156), (444, 52153), (448, 52147), (449, 52144), (453, 52132), (455, 52126), (479, 52078), (480, 52075), (516, 51955), (525, 51937), (564, 51874), (580, 51850), (583, 51835), (601, 51793), (622, 51742), (634, 51715), (665, 51664), (698, 51604), (700, 51601), (705, 51592), (714, 51574), (747, 51532), (776, 51487), (783, 51469), (857, 51352), (865, 51337), (883, 51316), (951, 51235), (953, 51232), (982, 51175), (985, 51169), (990, 51157), (1016, 51106), (1022, 51091), (1025, 51082), (1048, 51043), (1055, 51031), (1099, 50935), (1109, 50920),

Gene: CricKo_89 Start: 51423, Stop: 52613, Start Num: 295

Candidate Starts for CricKo_89:

(Start: 295 @51423 has 213 MA's), (349, 51528), (413, 51597), (519, 51750), (536, 51768), (594, 51855), (622, 51909), (677, 52002), (693, 52029), (784, 52155), (805, 52218), (814, 52248), (824, 52266), (1047, 52413), (1077, 52482), (1086, 52497), (1095, 52512), (1105, 52530), (1107, 52533), (1115, 52542),

Gene: CristinaYang_25 Start: 20580, Stop: 21974, Start Num: 295

Candidate Starts for CristinaYang_25:

(Start: 295 @20580 has 213 MA's), (328, 20637), (Start: 387 @20742 has 1 MA's), (388, 20745), (429, 20829), (452, 20862), (509, 20913), (512, 20919), (575, 21000), (577, 21003), (580, 21009), (590, 21045), (599, 21063), (601, 21066), (610, 21099), (620, 21120), (704, 21252), (719, 21279), (761, 21318), (775, 21339), (777, 21345), (788, 21378), (794, 21393), (797, 21402), (817, 21447), (866, 21483), (924, 21525), (953, 21588), (963, 21606), (1009, 21708), (1010, 21711), (1019, 21729), (1020, 21732), (1031, 21756), (1034, 21765), (1072, 21852), (1140, 21942), (1156, 21966),

Gene: Crocheter_86 Start: 54405, Stop: 55619, Start Num: 295

Candidate Starts for Crocheter_86:

(Start: 295 @54405 has 213 MA's), (299, 54411), (Start: 327 @54465 has 23 MA's), (328, 54468), (333, 54480), (358, 54528), (359, 54531), (392, 54573), (413, 54615), (433, 54648), (452, 54687), (518, 54765), (519, 54768), (578, 54828), (669, 55008), (671, 55011), (673, 55014), (677, 55020), (698, 55059), (717, 55086), (725, 55098), (760, 55125), (765, 55134), (776, 55152), (779, 55161), (781, 55164), (784, 55173), (799, 55218), (807, 55242), (814, 55266), (1009, 55365), (1012, 55371), (1018, 55383), (1036, 55425), (1068, 55491), (1079, 55512), (1096, 55542), (1138, 55602),

Gene: Crosby_42 Start: 31144, Stop: 32538, Start Num: 302

Candidate Starts for Crosby_42:

(Start: 302 @31144 has 13 MA's), (Start: 303 @31147 has 4 MA's), (339, 31222), (353, 31246), (356, 31252), (381, 31276), (Start: 387 @31291 has 1 MA's), (388, 31294), (424, 31366), (440, 31381), (459, 31417), (547, 31516), (596, 31594), (651, 31717), (740, 31852), (764, 31879), (777, 31900), (808, 31978), (821, 32011), (827, 32020), (912, 32062), (942, 32128), (944, 32131), (953, 32152), (963, 32170), (971, 32188), (992, 32242), (1009, 32272), (1034, 32329), (1036, 32332), (1061, 32380), (1074, 32419), (1082, 32434), (1138, 32503), (1150, 32521), (1156, 32530),

Gene: Cruella_72 Start: 52724, Stop: 50799, Start Num: 74

Candidate Starts for Cruella_72:

(32, 52817), (Start: 74 @52724 has 16 MA's), (134, 52553), (153, 52499), (176, 52445), (269, 52295), (365, 52139), (394, 52088), (Start: 395 @52085 has 1 MA's), (511, 51956), (512, 51953), (548, 51881), (555, 51872), (777, 51515), (788, 51482), (888, 51296), (1012, 51077), (1018, 51065), (1024, 51047), (1040, 51020), (1068, 50957), (1087, 50924), (1135, 50852),

Gene: Cuke_73 Start: 42303, Stop: 44156, Start Num: 95

Candidate Starts for Cuke_73:

(Start: 95 @42303 has 3 MA's), (141, 42423), (182, 42516), (199, 42549), (258, 42642), (263, 42651), (269, 42660), (Start: 295 @42690 has 213 MA's), (Start: 297 @42693 has 15 MA's), (329, 42750), (Start: 348 @42786 has 1 MA's), (354, 42798), (Start: 375 @42825 has 28 MA's), (Start: 387 @42849 has 1 MA's), (405, 42888), (438, 42942), (451, 42972), (457, 42990), (466, 43002), (580, 43143), (638, 43269), (679, 43326), (688, 43338), (777, 43440), (788, 43473), (794, 43488), (806, 43512), (807, 43515), (814, 43539), (841, 43578), (977, 43773), (1009, 43863), (1012, 43869), (1024, 43899), (1071, 43998), (1106, 44058), (1121, 44076), (1128, 44088), (1162, 44133), (1165, 44139),

Gene: Cybele_40 Start: 25911, Stop: 27818, Start Num: 68

Candidate Starts for Cybele_40:

(Start: 68 @25911 has 36 MA's), (93, 25974), (106, 25995), (122, 26049), (199, 26226), (229, 26271), (335, 26445), (339, 26454), (394, 26544), (543, 26787), (620, 26922), (624, 26934), (650, 26967), (777, 27096), (824, 27213), (888, 27288), (1009, 27522), (1010, 27525), (1037, 27585), (1080, 27675), (1097, 27705), (1126, 27747), (1163, 27798),

Gene: Daddyjeff_74 Start: 46083, Stop: 47339, Start Num: 295

Candidate Starts for Daddyjeff_74:

(Start: 295 @46083 has 213 MA's), (Start: 327 @46143 has 23 MA's), (328, 46146), (333, 46158), (347, 46185), (370, 46221), (519, 46458), (578, 46518), (580, 46521), (587, 46548), (645, 46662), (655, 46674), (673, 46704), (677, 46710), (722, 46785), (776, 46842), (785, 46866), (796, 46899), (799, 46908), (817, 46962), (1036, 47112), (1038, 47115), (1047, 47127), (1068, 47178),

Gene: Daiboju_26 Start: 21732, Stop: 23129, Start Num: 295

Candidate Starts for Daiboju_26:

(Start: 295 @21732 has 213 MA's), (328, 21792), (379, 21879), (Start: 387 @21897 has 1 MA's), (388, 21900), (429, 21984), (433, 21990), (452, 22017), (509, 22068), (512, 22074), (540, 22125), (547, 22134), (575, 22155), (580, 22164), (590, 22200), (601, 22221), (610, 22254), (620, 22275), (627, 22293), (630, 22299), (650, 22326), (660, 22338), (667, 22353), (704, 22407), (742, 22458), (754,

22464), (761, 22473), (764, 22479), (777, 22500), (788, 22533), (794, 22548), (797, 22557), (924, 22680), (942, 22719), (953, 22743), (961, 22755), (1009, 22863), (1012, 22869), (1017, 22878), (1019, 22884), (1034, 22920), (1072, 23007), (1140, 23097), (1156, 23121),

Gene: Dakiti_60 Start: 53037, Stop: 51628, Start Num: 375

Candidate Starts for Dakiti_60:

(177, 53415), (201, 53364), (220, 53313), (248, 53259), (265, 53229), (Start: 290 @53196 has 3 MA's), (Start: 295 @53187 has 213 MA's), (Start: 306 @53160 has 28 MA's), (Start: 375 @53037 has 28 MA's), (Start: 395 @52992 has 1 MA's), (416, 52950), (443, 52902), (444, 52899), (448, 52893), (449, 52890), (453, 52878), (455, 52872), (479, 52824), (480, 52821), (516, 52701), (525, 52683), (564, 52620), (580, 52596), (583, 52581), (601, 52539), (622, 52488), (634, 52461), (665, 52410), (698, 52350), (700, 52347), (705, 52338), (714, 52320), (747, 52278), (776, 52233), (777, 52230), (857, 52098), (865, 52083), (883, 52062), (951, 51981), (953, 51978), (982, 51921), (985, 51915), (990, 51903), (1016, 51852), (1022, 51837), (1025, 51828), (1048, 51789), (1055, 51777), (1099, 51681), (1109, 51666),

Gene: Dalilpop_75 Start: 57466, Stop: 55409, Start Num: 35

Candidate Starts for Dalilpop_75:

(Start: 35 @57466 has 35 MA's), (269, 56953), (Start: 306 @56899 has 28 MA's), (339, 56839), (341, 56836), (394, 56746), (403, 56728), (441, 56683), (443, 56677), (459, 56638), (520, 56584), (553, 56527), (627, 56380), (645, 56347), (666, 56317), (670, 56311), (688, 56284), (690, 56281), (777, 56161), (805, 56092), (810, 56074), (876, 55969), (879, 55960), (921, 55900), (942, 55861), (956, 55831), (981, 55774), (1009, 55714), (1023, 55684), (1040, 55651), (1060, 55609), (1157, 55453),

Gene: Damascus_61 Start: 43136, Stop: 44377, Start Num: 295

Candidate Starts for Damascus_61:

(Start: 295 @43136 has 213 MA's), (Start: 318 @43181 has 13 MA's), (358, 43259), (388, 43304), (392, 43316), (397, 43325), (450, 43418), (452, 43424), (519, 43505), (587, 43595), (677, 43757), (701, 43802), (715, 43820), (722, 43832), (725, 43835), (785, 43913), (792, 43934), (796, 43946), (797, 43949), (807, 43979), (819, 44012), (1012, 44105), (1086, 44258), (1117, 44306),

Gene: Damien_61 Start: 46053, Stop: 48110, Start Num: 51

Candidate Starts for Damien_61:

(Start: 51 @46053 has 11 MA's), (85, 46113), (86, 46116), (119, 46209), (124, 46221), (129, 46242), (177, 46365), (179, 46368), (182, 46377), (199, 46410), (208, 46431), (225, 46479), (251, 46521), (Start: 297 @46584 has 15 MA's), (Start: 306 @46605 has 28 MA's), (310, 46611), (Start: 342 @46665 has 7 MA's), (453, 46851), (457, 46863), (470, 46881), (509, 46896), (512, 46902), (688, 47220), (690, 47223), (716, 47268), (773, 47319), (777, 47331), (810, 47421), (814, 47433), (835, 47466), (851, 47490), (856, 47499), (942, 47589), (958, 47622), (1008, 47733), (1009, 47736), (1010, 47739), (1012, 47742), (1027, 47778), (1037, 47796), (1068, 47862), (1078, 47880), (1171, 48057),

Gene: Damp_57 Start: 51773, Stop: 50361, Start Num: 375

Candidate Starts for Damp_57:

(177, 52121), (233, 51992), (288, 51905), (Start: 290 @51902 has 3 MA's), (Start: 375 @51773 has 28 MA's), (Start: 395 @51728 has 1 MA's), (443, 51638), (444, 51635), (448, 51629), (455, 51608), (483, 51545), (516, 51437), (525, 51419), (580, 51332), (583, 51317), (601, 51275), (635, 51194), (665, 51146), (690, 51104), (698, 51086), (700, 51083), (714, 51056), (758, 51005), (776, 50969), (794, 50918), (857, 50834), (867, 50813), (982, 50657), (985, 50651), (990, 50639), (1055, 50513), (1109, 50399),

Gene: Dancer_87 Start: 53358, Stop: 54578, Start Num: 295

Candidate Starts for Dancer_87:

(Start: 295 @53358 has 213 MA's), (Start: 327 @53418 has 23 MA's), (328, 53421), (347, 53460), (359, 53484), (392, 53526), (413, 53568), (433, 53601), (452, 53640), (455, 53646), (518, 53718), (578, 53781), (623, 53883), (639, 53913), (650, 53931), (671, 53964), (673, 53967), (677, 53973), (711, 54030), (717, 54039), (722, 54048), (725, 54051), (765, 54087), (773, 54096), (776, 54105), (781, 54117), (798, 54168), (799, 54171), (814, 54222), (819, 54231), (1018, 54339), (1068, 54447), (1086, 54480), (1096, 54498), (1105, 54513),

Gene: DannyDe_40 Start: 25175, Stop: 27082, Start Num: 68

Candidate Starts for DannyDe_40:

(17, 25001), (Start: 68 @25175 has 36 MA's), (93, 25238), (122, 25313), (176, 25448), (199, 25490), (229, 25535), (335, 25709), (339, 25718), (394, 25808), (415, 25850), (422, 25865), (543, 26051), (620, 26186), (624, 26198), (650, 26231), (777, 26360), (824, 26477), (993, 26750), (1010, 26789), (1037, 26849), (1080, 26939), (1097, 26969), (1126, 27011), (1163, 27062),

Gene: Darby_69 Start: 47502, Stop: 48734, Start Num: 294

Candidate Starts for Darby_69:

(Start: 294 @47502 has 45 MA's), (299, 47511), (Start: 318 @47550 has 13 MA's), (388, 47676), (455, 47808), (518, 47880), (578, 47943), (587, 47973), (622, 48042), (677, 48135), (680, 48141), (700, 48177), (781, 48279), (1013, 48486), (1036, 48537), (1041, 48543), (1047, 48552), (1061, 48585), (1096, 48654),

Gene: Darwin_73 Start: 51965, Stop: 50040, Start Num: 74

Candidate Starts for Darwin_73:

(32, 52058), (Start: 74 @51965 has 16 MA's), (134, 51794), (153, 51740), (269, 51536), (365, 51380), (394, 51329), (Start: 395 @51326 has 1 MA's), (427, 51284), (511, 51197), (512, 51194), (548, 51122), (555, 51113), (777, 50756), (788, 50723), (811, 50666), (981, 50384), (1012, 50318), (1018, 50306), (1024, 50288), (1027, 50282), (1040, 50261), (1068, 50198), (1087, 50165), (1112, 50126),

Gene: Dauntless_39 Start: 25497, Stop: 27404, Start Num: 68

Candidate Starts for Dauntless_39:

(17, 25323), (Start: 68 @25497 has 36 MA's), (93, 25560), (106, 25581), (122, 25635), (176, 25770), (191, 25797), (199, 25812), (229, 25857), (335, 26031), (339, 26040), (394, 26130), (415, 26172), (422, 26187), (543, 26373), (620, 26508), (624, 26520), (650, 26553), (777, 26682), (810, 26769), (824, 26799), (993, 27072), (1010, 27111), (1037, 27171), (1080, 27261), (1097, 27291), (1126, 27333), (1163, 27384),

Gene: Dave_41 Start: 31109, Stop: 29721, Start Num: 319

Candidate Starts for Dave_41:

(197, 31331), (Start: 319 @31109 has 153 MA's), (405, 30965), (Start: 408 @30959 has 1 MA's), (410, 30956), (471, 30842), (511, 30815), (547, 30755), (572, 30728), (577, 30725), (622, 30629), (644, 30587), (781, 30416), (790, 30395), (797, 30380), (801, 30368), (817, 30320), (874, 30260), (927, 30164), (960, 30101), (982, 30047), (1023, 29963), (1024, 29957), (1031, 29945), (1066, 29870), (1077, 29849), (1109, 29795), (1112, 29792), (1128, 29768),

Gene: DaviePasture_60 Start: 40751, Stop: 42664, Start Num: 58

Candidate Starts for DaviePasture_60:

(Start: 51 @40736 has 11 MA's), (Start: 55 @40748 has 13 MA's), (Start: 58 @40751 has 23 MA's), (Start: 76 @40763 has 2 MA's), (Start: 89 @40811 has 2 MA's), (125, 40913), (155, 41003), (172, 41030), (175, 41039), (219, 41111), (269, 41198), (Start: 297 @41231 has 15 MA's), (331, 41294), (340, 41312), (Start: 387 @41384 has 1 MA's), (401, 41411), (509, 41540), (519, 41564), (542, 41606), (577, 41654), (583, 41675), (590, 41696), (620, 41753), (627, 41771), (652, 41807), (679, 41849), (716, 41909), (788, 42005), (790, 42008), (951, 42236), (992, 42326), (1009, 42362), (1012, 42368), (1037, 42422), (1059, 42461), (1112, 42563), (1123, 42578), (1137, 42599),

Gene: DejaVu_80 Start: 49301, Stop: 47778, Start Num: 292

Candidate Starts for DejaVu_80:

(159, 49562), (177, 49520), (Start: 292 @49301 has 28 MA's), (347, 49190), (374, 49151), (383, 49142), (429, 49046), (451, 49004), (457, 48986), (511, 48932), (535, 48887), (537, 48884), (592, 48782), (661, 48659), (683, 48623), (707, 48584), (767, 48518), (781, 48491), (787, 48473), (798, 48443), (819, 48383), (840, 48353), (848, 48341), (850, 48335), (1010, 48026), (1019, 48008), (1037, 47966), (1042, 47960), (1053, 47942), (1054, 47939), (1124, 47813),

Gene: Delphidian_41 Start: 31117, Stop: 29729, Start Num: 319

Candidate Starts for Delphidian_41:

(197, 31339), (Start: 319 @31117 has 153 MA's), (405, 30973), (Start: 408 @30967 has 1 MA's), (410, 30964), (471, 30850), (511, 30823), (547, 30763), (572, 30736), (577, 30733), (580, 30727), (622, 30637), (644, 30595), (781, 30424), (797, 30388), (801, 30376), (811, 30343), (817, 30328), (874, 30268), (927, 30172), (960, 30109), (982, 30055), (1023, 29971), (1024, 29965), (1031, 29953), (1077, 29857), (1109, 29803), (1112, 29800), (1128, 29776),

Gene: Delton_54 Start: 40127, Stop: 42070, Start Num: 65

Candidate Starts for Delton_54:

(34, 40058), (Start: 65 @40127 has 24 MA's), (80, 40154), (87, 40178), (104, 40226), (121, 40280), (140, 40340), (151, 40367), (174, 40418), (175, 40421), (193, 40460), (219, 40496), (269, 40583), (329, 40676), (335, 40691), (347, 40712), (414, 40814), (438, 40847), (450, 40871), (512, 40931), (562, 41018), (596, 41093), (652, 41183), (688, 41234), (690, 41237), (764, 41327), (777, 41345), (788, 41378), (810, 41432), (814, 41444), (824, 41462), (865, 41525), (939, 41609), (992, 41726), (1009, 41774), (1040, 41837), (1078, 41921),

Gene: Demikore_78 Start: 49350, Stop: 51383, Start Num: 54

Candidate Starts for Demikore_78:

(Start: 54 @49350 has 3 MA's), (78, 49374), (Start: 94 @49437 has 4 MA's), (122, 49503), (138, 49554), (139, 49557), (182, 49665), (199, 49698), (225, 49737), (241, 49761), (283, 49824), (Start: 297 @49842 has 15 MA's), (299, 49845), (Start: 306 @49863 has 28 MA's), (310, 49869), (351, 49938), (371, 49965), (380, 49977), (399, 50010), (453, 50112), (548, 50235), (573, 50265), (620, 50370), (627, 50388), (687, 50478), (688, 50481), (738, 50583), (761, 50622), (773, 50649), (777, 50661), (794, 50709), (802, 50727), (810, 50754), (814, 50766), (819, 50775), (942, 50913), (965, 50958), (1008, 51063), (1068, 51192), (1087, 51225), (1097, 51243), (1135, 51297), (1160, 51336),

Gene: Demosthenes_55 Start: 52768, Stop: 51074, Start Num: 209

Candidate Starts for Demosthenes_55:

(Start: 206 @52780 has 9 MA's), (Start: 209 @52768 has 2 MA's), (259, 52669), (Start: 273 @52648 has 1 MA's), (Start: 316 @52582 has 5 MA's), (381, 52483), (Start: 395 @52447 has 1 MA's), (Start: 408 @52423 has 1 MA's), (412, 52414), (416, 52405), (443, 52357), (453, 52333), (472, 52291), (480, 52276), (483, 52261), (496, 52204), (498, 52201), (521, 52141), (523, 52138), (564, 52072), (568, 52069), (583, 52033), (584, 52030), (590, 52012), (595, 52003), (601, 51991), (621, 51943), (635, 51910), (648, 51886), (665, 51862), (679, 51838), (714, 51772), (776, 51673), (856, 51541), (857, 51538), (926, 51472), (951, 51421), (953, 51418), (982, 51361), (990, 51343), (1048, 51226), (1050, 51223), (1057, 51211), (1109, 51112), (1125, 51091),

Gene: Demure_83 Start: 54483, Stop: 55622, Start Num: 333

Candidate Starts for Demure_83:

(Start: 295 @54408 has 213 MA's), (299, 54414), (Start: 327 @54468 has 23 MA's), (328, 54471), (333, 54483), (358, 54531), (359, 54534), (392, 54576), (413, 54618), (429, 54645), (433, 54651), (452, 54690), (518, 54768), (519, 54771), (578, 54831), (623, 54933), (639, 54963), (657, 54990), (671, 55014), (677, 55023), (698, 55062), (700, 55065), (715, 55086), (717, 55089), (720, 55095),

(725, 55101), (760, 55128), (765, 55137), (776, 55155), (779, 55164), (781, 55167), (784, 55176), (795, 55209), (807, 55245), (814, 55269), (865, 55299), (910, 55314), (1009, 55368), (1012, 55374), (1018, 55386), (1036, 55428), (1068, 55494), (1096, 55545), (1115, 55572), (1138, 55605),

Gene: Den3_41 Start: 31123, Stop: 29735, Start Num: 319

Candidate Starts for Den3_41:

(39, 31774), (163, 31420), (197, 31345), (Start: 319 @31123 has 153 MA's), (405, 30979), (Start: 408 @30973 has 1 MA's), (410, 30970), (471, 30856), (511, 30829), (547, 30769), (572, 30742), (577, 30739), (622, 30643), (644, 30601), (781, 30430), (790, 30409), (801, 30382), (817, 30334), (874, 30274), (960, 30115), (982, 30061), (1023, 29977), (1024, 29971), (1031, 29959), (1077, 29863), (1109, 29809), (1112, 29806), (1128, 29782),

Gene: Deschain_85 Start: 50231, Stop: 48711, Start Num: 292

Candidate Starts for Deschain_85:

(265, 50264), (Start: 292 @50231 has 28 MA's), (Start: 315 @50180 has 2 MA's), (383, 50072), (412, 50006), (449, 49940), (535, 49817), (541, 49802), (578, 49745), (590, 49712), (592, 49709), (623, 49646), (653, 49595), (661, 49586), (665, 49577), (697, 49523), (723, 49484), (745, 49469), (787, 49400), (798, 49370), (821, 49307), (865, 49235), (962, 49049), (1019, 48941), (1032, 48911), (1057, 48866), (1077, 48815), (1120, 48752),

Gene: DevitoJr_71 Start: 47884, Stop: 49134, Start Num: 294

Candidate Starts for DevitoJr_71:

(Start: 294 @47884 has 45 MA's), (299, 47893), (Start: 318 @47932 has 13 MA's), (358, 48010), (388, 48058), (Start: 395 @48076 has 1 MA's), (455, 48190), (518, 48262), (578, 48325), (587, 48355), (622, 48424), (677, 48517), (680, 48523), (700, 48559), (781, 48661), (1013, 48868), (1036, 48919), (1047, 48934), (1057, 48952), (1060, 48964), (1061, 48967), (1096, 49036),

Gene: Diabla_63 Start: 53692, Stop: 52283, Start Num: 375

Candidate Starts for Diabla_63:

(177, 54070), (201, 54019), (248, 53914), (265, 53884), (Start: 290 @53851 has 3 MA's), (Start: 295 @53842 has 213 MA's), (Start: 306 @53815 has 28 MA's), (Start: 375 @53692 has 28 MA's), (Start: 395 @53647 has 1 MA's), (416, 53605), (443, 53557), (444, 53554), (448, 53548), (449, 53545), (455, 53527), (464, 53506), (479, 53479), (516, 53356), (525, 53338), (580, 53251), (583, 53236), (622, 53143), (665, 53065), (679, 53041), (698, 53005), (700, 53002), (714, 52975), (747, 52933), (776, 52888), (783, 52870), (807, 52804), (857, 52753), (865, 52738), (883, 52717), (937, 52660), (953, 52633), (982, 52576), (985, 52570), (990, 52558), (1016, 52507), (1025, 52483), (1048, 52444), (1055, 52432), (1057, 52429), (1099, 52336), (1109, 52321), (1125, 52300),

Gene: Dialga_86 Start: 54247, Stop: 55461, Start Num: 295

Candidate Starts for Dialga_86:

(Start: 295 @54247 has 213 MA's), (299, 54253), (Start: 327 @54307 has 23 MA's), (328, 54310), (333, 54322), (358, 54370), (359, 54373), (392, 54415), (413, 54457), (429, 54484), (433, 54490), (452, 54529), (518, 54607), (519, 54610), (578, 54670), (623, 54772), (639, 54802), (671, 54853), (677, 54862), (695, 54892), (698, 54901), (715, 54925), (717, 54928), (720, 54934), (725, 54940), (760, 54967), (765, 54976), (776, 54994), (779, 55003), (781, 55006), (784, 55015), (799, 55060), (807, 55084), (814, 55108), (865, 55138), (910, 55153), (1009, 55207), (1012, 55213), (1018, 55225), (1068, 55333), (1096, 55384), (1115, 55411), (1138, 55444),

Gene: Dina_47 Start: 36338, Stop: 37714, Start Num: 342

Candidate Starts for Dina_47:

(Start: 342 @36338 has 7 MA's), (Start: 387 @36407 has 1 MA's), (394, 36425), (444, 36518), (471, 36578), (500, 36584), (502, 36587), (574, 36707), (582, 36725), (642, 36842), (755, 36980), (780, 37019), (793, 37052), (795, 37058), (800, 37073), (811, 37112), (864, 37172), (875, 37196), (897,

37232), (940, 37301), (944, 37307), (982, 37388), (1026, 37484), (1033, 37496), (1039, 37508), (1064, 37565), (1067, 37571), (1073, 37583), (1091, 37613), (1125, 37664),

Gene: Dinallo_67 Start: 48764, Stop: 49996, Start Num: 294

Candidate Starts for Dinallo_67:

(Start: 292 @48758 has 28 MA's), (Start: 294 @48764 has 45 MA's), (299, 48773), (312, 48803), (Start: 318 @48812 has 13 MA's), (358, 48890), (388, 48938), (Start: 395 @48956 has 1 MA's), (455, 49070), (518, 49142), (578, 49205), (587, 49235), (622, 49304), (677, 49397), (680, 49403), (700, 49439), (781, 49541), (1013, 49748), (1036, 49799), (1047, 49814), (1060, 49844), (1061, 49847), (1096, 49916), (1107, 49934),

Gene: Ditters_52 Start: 37846, Stop: 39018, Start Num: 297

Candidate Starts for Ditters_52:

(Start: 297 @37846 has 15 MA's), (312, 37879), (Start: 318 @37888 has 13 MA's), (347, 37945), (426, 38038), (433, 38050), (519, 38167), (587, 38257), (614, 38314), (622, 38326), (673, 38413), (677, 38419), (690, 38440), (701, 38464), (725, 38497), (773, 38542), (781, 38563), (792, 38596), (795, 38605), (807, 38641), (1009, 38755), (1013, 38764), (1086, 38914), (1098, 38935), (1105, 38947), (1107, 38950),

Gene: DizzyRudy_65 Start: 43023, Stop: 44264, Start Num: 295

Candidate Starts for DizzyRudy_65:

(Start: 295 @43023 has 213 MA's), (Start: 318 @43068 has 13 MA's), (358, 43146), (366, 43158), (388, 43191), (392, 43203), (397, 43212), (450, 43305), (452, 43311), (540, 43422), (587, 43482), (594, 43497), (596, 43503), (677, 43644), (701, 43689), (715, 43707), (722, 43719), (725, 43722), (785, 43800), (792, 43821), (796, 43833), (797, 43836), (807, 43866), (1086, 44145), (1117, 44193),

Gene: Djokovic_50 Start: 36614, Stop: 38668, Start Num: 74

Candidate Starts for Djokovic_50:

(Start: 74 @36614 has 16 MA's), (82, 36638), (106, 36701), (131, 36785), (144, 36827), (266, 37049), (Start: 297 @37085 has 15 MA's), (337, 37160), (359, 37199), (Start: 395 @37241 has 1 MA's), (405, 37259), (414, 37280), (421, 37292), (456, 37352), (468, 37367), (509, 37385), (548, 37463), (562, 37478), (564, 37481), (583, 37520), (590, 37541), (650, 37643), (688, 37700), (698, 37721), (700, 37724), (709, 37736), (736, 37784), (737, 37790), (749, 37838), (759, 37871), (770, 37895), (774, 37913), (785, 37943), (833, 38066), (856, 38099), (863, 38111), (876, 38126), (905, 38165), (939, 38210), (951, 38237), (990, 38321), (1018, 38384), (1037, 38426), (1044, 38435), (1049, 38444), (1068, 38492), (1071, 38501), (1078, 38513), (1087, 38528), (1114, 38570),

Gene: Djungelskog_73 Start: 46147, Stop: 47385, Start Num: 295

Candidate Starts for Djungelskog_73:

(Start: 295 @46147 has 213 MA's), (388, 46318), (455, 46450), (578, 46585), (587, 46615), (614, 46672), (677, 46777), (680, 46783), (698, 46816), (781, 46921), (996, 47110), (1107, 47323), (1140, 47368),

Gene: DocB7_048 Start: 43676, Stop: 42174, Start Num: 316

Candidate Starts for DocB7_048:

(Start: 316 @43676 has 5 MA's), (385, 43580), (Start: 395 @43553 has 1 MA's), (412, 43520), (424, 43496), (443, 43466), (478, 43391), (499, 43310), (503, 43295), (564, 43184), (578, 43163), (590, 43124), (658, 42986), (665, 42974), (666, 42971), (679, 42950), (721, 42872), (776, 42812), (856, 42677), (857, 42674), (900, 42623), (911, 42602), (929, 42575), (963, 42509), (978, 42482), (981, 42473), (990, 42452), (1006, 42416), (1025, 42377), (1060, 42311), (1106, 42215),

Gene: DoctorPepper_73 Start: 45849, Stop: 47078, Start Num: 295

Candidate Starts for DoctorPepper_73:

(Start: 295 @45849 has 213 MA's), (388, 46020), (455, 46152), (578, 46287), (587, 46317), (614, 46374), (677, 46479), (680, 46485), (698, 46518), (781, 46623), (993, 46803), (1107, 47016), (1140, 47061),

Gene: Dodo_116 Start: 79498, Stop: 77648, Start Num: 75

Candidate Starts for Dodo_116:

(42, 79567), (43, 79561), (Start: 75 @79498 has 19 MA's), (88, 79453), (90, 79441), (139, 79315), (165, 79252), (222, 79177), (Start: 292 @79069 has 28 MA's), (301, 79051), (335, 78982), (350, 78955), (430, 78895), (519, 78730), (596, 78586), (643, 78499), (665, 78472), (688, 78436), (693, 78427), (730, 78370), (777, 78364), (793, 78319), (797, 78307), (808, 78286), (815, 78262), (839, 78226), (884, 78181), (942, 78097), (944, 78094), (947, 78088), (976, 78025), (1023, 77923), (1063, 77836), (1084, 77794), (1116, 77743),

Gene: DoobyDoo_59 Start: 39773, Stop: 41686, Start Num: 58

Candidate Starts for DoobyDoo_59:

(Start: 55 @39770 has 13 MA's), (Start: 58 @39773 has 23 MA's), (Start: 76 @39785 has 2 MA's), (Start: 89 @39833 has 2 MA's), (Start: 103 @39866 has 1 MA's), (125, 39935), (155, 40025), (172, 40052), (175, 40061), (219, 40133), (269, 40220), (Start: 297 @40253 has 15 MA's), (331, 40316), (Start: 387 @40406 has 1 MA's), (509, 40562), (519, 40586), (542, 40628), (577, 40676), (583, 40697), (590, 40718), (620, 40775), (652, 40829), (679, 40871), (716, 40931), (788, 41027), (790, 41030), (915, 41207), (951, 41258), (992, 41348), (1009, 41384), (1012, 41390), (1027, 41426), (1037, 41444), (1059, 41483), (1112, 41585), (1123, 41600), (1137, 41621),

Gene: Dothraki_41 Start: 31114, Stop: 29726, Start Num: 319

Candidate Starts for Dothraki_41:

(39, 31765), (163, 31411), (197, 31336), (Start: 319 @31114 has 153 MA's), (405, 30970), (Start: 408 @30964 has 1 MA's), (410, 30961), (471, 30847), (511, 30820), (547, 30760), (572, 30733), (577, 30730), (622, 30634), (644, 30592), (724, 30481), (781, 30421), (797, 30385), (801, 30373), (811, 30340), (817, 30325), (874, 30265), (927, 30169), (960, 30106), (982, 30052), (1023, 29968), (1024, 29962), (1031, 29950), (1077, 29854), (1109, 29800), (1112, 29797), (1128, 29773),

Gene: Doxi13_55 Start: 37508, Stop: 38686, Start Num: 297

Candidate Starts for Doxi13_55:

(Start: 297 @37508 has 15 MA's), (312, 37541), (Start: 318 @37550 has 13 MA's), (347, 37607), (399, 37649), (426, 37700), (519, 37829), (587, 37919), (590, 37928), (614, 37976), (622, 37988), (677, 38081), (690, 38102), (701, 38126), (713, 38141), (765, 38195), (773, 38204), (781, 38225), (782, 38228), (784, 38234), (978, 38369), (1013, 38432), (1018, 38441), (1047, 38498), (1057, 38516), (1086, 38582), (1098, 38603), (1141, 38663),

Gene: DrGrey_77 Start: 49757, Stop: 50941, Start Num: 295

Candidate Starts for DrGrey_77:

(Start: 295 @49757 has 213 MA's), (Start: 318 @49802 has 13 MA's), (328, 49820), (333, 49832), (455, 50003), (587, 50177), (673, 50333), (677, 50339), (698, 50378), (701, 50384), (720, 50411), (781, 50483), (799, 50537), (807, 50561), (814, 50585), (817, 50591), (909, 50615), (978, 50621), (1036, 50735), (1086, 50834), (1089, 50840), (1107, 50870), (1115, 50879), (1147, 50924),

Gene: DrLupo_67 Start: 46291, Stop: 48255, Start Num: 49

Candidate Starts for DrLupo_67:

(15, 46123), (22, 46198), (23, 46204), (Start: 49 @46291 has 1 MA's), (Start: 58 @46312 has 23 MA's), (Start: 70 @46318 has 5 MA's), (Start: 74 @46324 has 16 MA's), (85, 46357), (93, 46390), (117, 46438), (122, 46459), (129, 46486), (138, 46510), (162, 46573), (170, 46591), (177, 46609), (182, 46621), (199, 46654), (225, 46696), (239, 46717), (241, 46720), (251, 46738), (Start: 275 @46771 has 1 MA's), (Start: 280 @46777 has 11 MA's), (Start: 297 @46801 has 15 MA's), (299, 46804), (338,

46876), (470, 47095), (509, 47110), (548, 47188), (590, 47266), (627, 47341), (648, 47374), (764, 47536), (773, 47542), (814, 47668), (815, 47671), (856, 47707), (860, 47713), (942, 47797), (958, 47830), (1008, 47941), (1009, 47944), (1013, 47953), (1027, 47986), (1040, 48007), (1060, 48049), (1093, 48112), (1109, 48139), (1165, 48223),

Gene: DrRobert_25 Start: 20576, Stop: 21970, Start Num: 295

Candidate Starts for DrRobert_25:

(Start: 295 @20576 has 213 MA's), (328, 20633), (Start: 387 @20738 has 1 MA's), (388, 20741), (429, 20825), (452, 20858), (509, 20909), (512, 20915), (575, 20996), (577, 20999), (580, 21005), (590, 21041), (599, 21059), (601, 21062), (610, 21095), (620, 21116), (704, 21248), (719, 21275), (761, 21314), (775, 21335), (777, 21341), (788, 21374), (794, 21389), (797, 21398), (817, 21443), (866, 21479), (924, 21521), (953, 21584), (963, 21602), (1009, 21704), (1010, 21707), (1019, 21725), (1020, 21728), (1031, 21752), (1034, 21761), (1072, 21848), (1140, 21938), (1156, 21962),

Gene: DrYang_86 Start: 58563, Stop: 60308, Start Num: 158

Candidate Starts for DrYang_86:

(113, 58410), (Start: 158 @58563 has 18 MA's), (168, 58584), (199, 58647), (205, 58662), (212, 58680), (226, 58716), (236, 58731), (238, 58737), (248, 58749), (251, 58755), (Start: 278 @58794 has 3 MA's), (328, 58881), (366, 58953), (Start: 375 @58962 has 28 MA's), (385, 58980), (405, 59025), (430, 59058), (435, 59064), (438, 59067), (471, 59133), (527, 59184), (534, 59196), (538, 59202), (578, 59262), (582, 59274), (741, 59523), (761, 59541), (790, 59595), (793, 59601), (795, 59607), (812, 59658), (856, 59703), (885, 59769), (893, 59781), (898, 59790), (905, 59811), (920, 59838), (933, 59862), (939, 59880), (976, 59955), (980, 59964), (981, 59970), (989, 59988), (998, 60015), (1002, 60021), (1019, 60051), (1021, 60057), (1053, 60117), (1058, 60129), (1076, 60174), (1099, 60213),

Gene: Dre3_48 Start: 37401, Stop: 35911, Start Num: 278

Candidate Starts for Dre3_48:

(Start: 278 @37401 has 3 MA's), (Start: 303 @37359 has 4 MA's), (328, 37317), (330, 37311), (Start: 343 @37284 has 1 MA's), (379, 37230), (383, 37224), (394, 37194), (Start: 408 @37167 has 1 MA's), (453, 37086), (454, 37083), (456, 37077), (465, 37056), (532, 36990), (577, 36954), (584, 36930), (596, 36900), (599, 36894), (602, 36888), (639, 36825), (649, 36810), (661, 36795), (772, 36669), (799, 36591), (811, 36552), (815, 36540), (817, 36537), (857, 36501), (866, 36483), (867, 36480), (868, 36477), (875, 36462), (886, 36435), (894, 36423), (940, 36321), (964, 36276), (966, 36273), (981, 36231), (988, 36216), (1010, 36168), (1013, 36162), (1036, 36111), (1085, 36015), (1097, 35991), (1121, 35958), (1143, 35925), (1146, 35922),

Gene: DreamTeam_25 Start: 20615, Stop: 22009, Start Num: 295

Candidate Starts for DreamTeam_25:

(Start: 295 @20615 has 213 MA's), (328, 20672), (Start: 387 @20777 has 1 MA's), (388, 20780), (429, 20864), (452, 20897), (511, 20951), (512, 20954), (580, 21044), (590, 21080), (601, 21101), (610, 21134), (620, 21155), (704, 21287), (719, 21314), (761, 21353), (777, 21380), (788, 21413), (794, 21428), (797, 21437), (817, 21482), (866, 21518), (942, 21599), (953, 21623), (963, 21641), (969, 21653), (992, 21713), (1003, 21737), (1009, 21743), (1010, 21746), (1019, 21764), (1020, 21767), (1031, 21791), (1034, 21800), (1072, 21887), (1113, 21938), (1140, 21977),

Gene: Dryad_74 Start: 51068, Stop: 49182, Start Num: 61

Candidate Starts for Dryad_74:

(34, 51137), (Start: 38 @51128 has 1 MA's), (39, 51125), (Start: 61 @51068 has 8 MA's), (93, 50990), (97, 50981), (119, 50921), (126, 50900), (137, 50876), (161, 50813), (199, 50738), (219, 50714), (335, 50516), (339, 50507), (402, 50399), (512, 50243), (577, 50138), (595, 50087), (624, 50027), (687, 49940), (688, 49937), (721, 49883), (788, 49832), (792, 49823), (796, 49811), (810, 49778), (865, 49712), (885, 49685), (888, 49682), (958, 49583), (971, 49556), (1010, 49466), (1037, 49406), (1044,

49397), (1053, 49382), (1078, 49322), (1087, 49307), (1112, 49268),

Gene: Duffington_87 Start: 55182, Stop: 56396, Start Num: 295

Candidate Starts for Duffington_87:

(Start: 295 @55182 has 213 MA's), (299, 55188), (Start: 327 @55242 has 23 MA's), (328, 55245), (333, 55257), (347, 55284), (349, 55287), (359, 55308), (392, 55350), (413, 55392), (433, 55425), (452, 55464), (518, 55542), (519, 55545), (578, 55605), (623, 55707), (639, 55737), (671, 55788), (677, 55797), (698, 55836), (700, 55839), (717, 55863), (720, 55869), (725, 55875), (765, 55911), (776, 55929), (779, 55938), (781, 55941), (784, 55950), (798, 55992), (807, 56019), (814, 56043), (865, 56073), (1018, 56160), (1096, 56319), (1115, 56346),

Gene: DumpTruck_58 Start: 39261, Stop: 41165, Start Num: 76

Candidate Starts for DumpTruck_58:

(20, 39126), (26, 39147), (31, 39168), (41, 39198), (Start: 55 @39243 has 13 MA's), (Start: 58 @39246 has 23 MA's), (Start: 76 @39261 has 2 MA's), (Start: 89 @39309 has 2 MA's), (Start: 103 @39342 has 1 MA's), (105, 39345), (138, 39450), (172, 39528), (175, 39537), (219, 39609), (225, 39624), (231, 39633), (Start: 295 @39726 has 213 MA's), (299, 39732), (331, 39792), (457, 40005), (509, 40038), (562, 40131), (573, 40146), (583, 40173), (590, 40194), (652, 40308), (679, 40350), (687, 40359), (709, 40398), (716, 40410), (764, 40455), (773, 40461), (788, 40506), (794, 40521), (859, 40614), (939, 40707), (1009, 40860), (1027, 40902), (1037, 40920), (1040, 40923), (1112, 41061), (1137, 41097), (1167, 41151),

Gene: DunneganBoMo_90 Start: 76558, Stop: 78402, Start Num: 71

Candidate Starts for DunneganBoMo_90:

(Start: 71 @76558 has 13 MA's), (169, 76831), (248, 76939), (Start: 293 @77005 has 5 MA's), (329, 77074), (333, 77083), (438, 77158), (601, 77467), (623, 77512), (648, 77551), (665, 77572), (693, 77617), (730, 77674), (777, 77680), (788, 77713), (793, 77725), (797, 77737), (878, 77854), (881, 77860), (940, 77950), (956, 77983), (993, 78067), (1040, 78160), (1054, 78184), (1147, 78352), (1149, 78355),

Gene: Duocatuli_40 Start: 30803, Stop: 29415, Start Num: 319

Candidate Starts for Duocatuli_40:

(163, 31100), (197, 31025), (Start: 319 @30803 has 153 MA's), (405, 30659), (Start: 408 @30653 has 1 MA's), (410, 30650), (471, 30536), (511, 30509), (547, 30449), (572, 30422), (577, 30419), (622, 30323), (644, 30281), (781, 30110), (790, 30089), (797, 30074), (817, 30014), (874, 29954), (927, 29858), (960, 29795), (982, 29741), (1023, 29657), (1024, 29651), (1031, 29639), (1066, 29564), (1077, 29543), (1109, 29489), (1112, 29486), (1128, 29462),

Gene: DustyDino_88 Start: 50790, Stop: 49270, Start Num: 292

Candidate Starts for DustyDino_88:

(265, 50823), (Start: 292 @50790 has 28 MA's), (Start: 315 @50739 has 2 MA's), (383, 50631), (412, 50565), (449, 50499), (535, 50376), (541, 50361), (578, 50304), (590, 50271), (592, 50268), (623, 50205), (653, 50154), (661, 50145), (665, 50136), (697, 50082), (723, 50043), (745, 50028), (787, 49959), (798, 49929), (821, 49866), (865, 49794), (962, 49608), (1019, 49500), (1032, 49470), (1057, 49425), (1077, 49374), (1120, 49311),

Gene: Dynamite_80 Start: 46764, Stop: 48074, Start Num: 295

Candidate Starts for Dynamite_80:

(Start: 295 @46764 has 213 MA's), (347, 46866), (578, 47202), (587, 47232), (622, 47301), (645, 47346), (671, 47385), (677, 47394), (695, 47424), (722, 47469), (725, 47472), (776, 47526), (778, 47532), (779, 47535), (781, 47538), (796, 47583), (805, 47610), (814, 47640), (1009, 47736), (1089, 47901), (1138, 47973), (1162, 48009),

Gene: Eddiemania_87 Start: 55301, Stop: 56515, Start Num: 295

Candidate Starts for Eddiemania_87:

(Start: 295 @55301 has 213 MA's), (299, 55307), (Start: 327 @55361 has 23 MA's), (328, 55364), (333, 55376), (359, 55427), (392, 55469), (413, 55511), (429, 55538), (433, 55544), (452, 55583), (518, 55661), (519, 55664), (578, 55724), (623, 55826), (639, 55856), (671, 55907), (677, 55916), (695, 55946), (698, 55955), (700, 55958), (715, 55979), (717, 55982), (720, 55988), (725, 55994), (760, 56021), (765, 56030), (776, 56048), (779, 56057), (781, 56060), (784, 56069), (798, 56111), (799, 56114), (807, 56138), (814, 56162), (865, 56192), (910, 56207), (1012, 56267), (1018, 56279), (1093, 56432), (1096, 56438), (1115, 56465), (1138, 56498),

Gene: EdgarPoe_89 Start: 58918, Stop: 60663, Start Num: 158

Candidate Starts for EdgarPoe_89:

(Start: 158 @58918 has 18 MA's), (168, 58939), (205, 59017), (214, 59041), (236, 59086), (251, 59110), (Start: 278 @59149 has 3 MA's), (366, 59308), (Start: 375 @59317 has 28 MA's), (405, 59380), (430, 59413), (435, 59419), (438, 59422), (444, 59437), (452, 59452), (527, 59539), (534, 59551), (538, 59557), (563, 59593), (578, 59617), (582, 59629), (652, 59761), (710, 59845), (741, 59878), (759, 59893), (761, 59896), (777, 59920), (787, 59944), (790, 59950), (793, 59956), (812, 60013), (856, 60058), (885, 60124), (893, 60136), (898, 60145), (907, 60169), (909, 60172), (928, 60208), (932, 60214), (940, 60238), (980, 60319), (981, 60325), (989, 60343), (998, 60370), (1002, 60376), (1019, 60406), (1021, 60412), (1053, 60472), (1073, 60523), (1076, 60529), (1099, 60568),

Gene: Edmundo_94 Start: 55295, Stop: 56959, Start Num: 185

Candidate Starts for Edmundo_94:

(Start: 185 @55295 has 9 MA's), (216, 55358), (219, 55367), (265, 55454), (Start: 295 @55499 has 213 MA's), (361, 55619), (421, 55712), (438, 55736), (443, 55748), (471, 55802), (531, 55853), (550, 55889), (577, 55916), (583, 55937), (586, 55943), (603, 55985), (677, 56102), (728, 56180), (755, 56198), (783, 56249), (796, 56282), (806, 56315), (852, 56372), (866, 56399), (882, 56441), (921, 56522), (939, 56552), (948, 56570), (963, 56597), (975, 56624), (1006, 56699), (1020, 56726), (1024, 56738), (1062, 56807), (1065, 56816), (1067, 56819), (1086, 56852), (1109, 56888), (1122, 56903), (1132, 56918), (1147, 56939),

Gene: Eevee_75 Start: 49395, Stop: 50672, Start Num: 295

Candidate Starts for Eevee_75:

(Start: 295 @49395 has 213 MA's), (333, 49470), (362, 49524), (455, 49698), (504, 49734), (519, 49773), (578, 49833), (587, 49863), (677, 50025), (776, 50157), (784, 50178), (796, 50214), (799, 50223), (817, 50277), (910, 50313), (1013, 50376), (1036, 50427), (1047, 50442), (1068, 50493), (1086, 50526),

Gene: Egad_74 Start: 46123, Stop: 47352, Start Num: 295

Candidate Starts for Egad_74:

(Start: 295 @46123 has 213 MA's), (388, 46294), (455, 46426), (578, 46561), (587, 46591), (614, 46648), (677, 46753), (680, 46759), (698, 46792), (781, 46897), (993, 47077), (1107, 47290), (1140, 47335),

Gene: Eggsie_57 Start: 51628, Stop: 50060, Start Num: 290

Candidate Starts for Eggsie_57:

(177, 51847), (220, 51745), (233, 51718), (248, 51691), (261, 51670), (265, 51661), (Start: 290 @51628 has 3 MA's), (Start: 295 @51619 has 213 MA's), (Start: 306 @51592 has 28 MA's), (Start: 375 @51469 has 28 MA's), (Start: 395 @51424 has 1 MA's), (416, 51382), (443, 51334), (444, 51331), (448, 51325), (449, 51322), (455, 51304), (464, 51283), (479, 51256), (516, 51133), (525, 51115), (580, 51028), (583, 51013), (622, 50920), (665, 50842), (679, 50818), (698, 50782), (700, 50779), (714, 50752), (747, 50710), (776, 50665), (783, 50647), (807, 50581), (857, 50530), (865, 50515), (883, 50494), (937, 50437), (953, 50410), (982, 50353), (985, 50347), (990, 50335), (1016, 50284),

(1025, 50260), (1048, 50221), (1055, 50209), (1057, 50206), (1099, 50113), (1109, 50098), (1125, 50077),

Gene: EhyElimayoE_125 Start: 82183, Stop: 80540, Start Num: 255

Candidate Starts for EhyElimayoE_125:

(Start: 255 @82183 has 9 MA's), (271, 82159), (332, 82051), (393, 81946), (413, 81907), (443, 81856), (510, 81763), (540, 81703), (558, 81679), (561, 81676), (578, 81649), (618, 81556), (712, 81403), (729, 81379), (731, 81376), (763, 81343), (773, 81331), (798, 81259), (830, 81181), (856, 81136), (925, 80989), (943, 80950), (946, 80944), (962, 80914), (974, 80884), (979, 80872), (1009, 80806), (1056, 80716), (1057, 80713), (1105, 80617), (1110, 80611), (1117, 80602), (1129, 80584),

Gene: Ekhein_59 Start: 51454, Stop: 49922, Start Num: 306

Candidate Starts for Ekhein_59:

(177, 51709), (201, 51658), (220, 51607), (248, 51553), (265, 51523), (Start: 290 @51490 has 3 MA's), (Start: 295 @51481 has 213 MA's), (Start: 306 @51454 has 28 MA's), (Start: 395 @51286 has 1 MA's), (416, 51244), (443, 51196), (449, 51184), (453, 51172), (455, 51166), (464, 51145), (479, 51118), (525, 50977), (580, 50890), (583, 50875), (587, 50863), (601, 50833), (622, 50782), (634, 50755), (665, 50704), (690, 50662), (698, 50644), (700, 50641), (714, 50614), (747, 50572), (776, 50527), (857, 50392), (865, 50377), (883, 50356), (937, 50299), (951, 50275), (953, 50272), (982, 50215), (985, 50209), (988, 50203), (990, 50197), (1016, 50146), (1025, 50122), (1048, 50083), (1055, 50071), (1057, 50068), (1099, 49975), (1109, 49960), (1125, 49939),

Gene: ElJefes_58 Start: 40827, Stop: 39349, Start Num: 277

Candidate Starts for ElJefes_58:

(217, 40908), (Start: 250 @40854 has 2 MA's), (Start: 277 @40827 has 49 MA's), (312, 40764), (328, 40743), (330, 40737), (Start: 343 @40710 has 1 MA's), (379, 40656), (388, 40635), (394, 40620), (401, 40605), (448, 40524), (456, 40500), (532, 40413), (577, 40377), (596, 40323), (599, 40317), (602, 40311), (649, 40233), (661, 40218), (724, 40128), (740, 40119), (772, 40092), (794, 40029), (797, 40020), (801, 40008), (808, 39987), (812, 39972), (815, 39963), (830, 39942), (867, 39903), (870, 39894), (877, 39879), (903, 39837), (919, 39807), (940, 39759), (942, 39756), (964, 39714), (971, 39696), (1013, 39600), (1036, 39549), (1055, 39519), (1066, 39486), (1097, 39429), (1106, 39414),

Gene: ElephantMan_72 Start: 48385, Stop: 49617, Start Num: 294

Candidate Starts for ElephantMan_72:

(Start: 292 @48379 has 28 MA's), (Start: 294 @48385 has 45 MA's), (299, 48394), (312, 48424), (Start: 318 @48433 has 13 MA's), (358, 48511), (388, 48559), (455, 48691), (518, 48763), (578, 48826), (587, 48856), (622, 48925), (677, 49018), (680, 49024), (700, 49060), (781, 49162), (1013, 49369), (1036, 49420), (1047, 49435), (1057, 49453), (1060, 49465), (1061, 49468), (1096, 49537), (1107, 49555),

Gene: Eleri_40 Start: 30943, Stop: 29531, Start Num: 327

Candidate Starts for Eleri_40:

(Start: 327 @30943 has 23 MA's), (339, 30913), (Start: 343 @30907 has 1 MA's), (364, 30874), (471, 30682), (511, 30655), (547, 30595), (572, 30568), (577, 30565), (590, 30523), (622, 30469), (644, 30427), (781, 30256), (790, 30235), (797, 30220), (801, 30208), (805, 30196), (806, 30193), (811, 30175), (857, 30094), (874, 30058), (903, 30004), (925, 29962), (940, 29932), (953, 29908), (957, 29902), (977, 29860), (1009, 29791), (1020, 29767), (1023, 29761), (1024, 29755), (1031, 29743), (1077, 29647), (1082, 29638), (1093, 29620), (1099, 29608), (1131, 29563),

Gene: Elinal_60 Start: 40792, Stop: 39314, Start Num: 277

Candidate Starts for Elinal_60:

(Start: 277 @40792 has 49 MA's), (312, 40729), (328, 40708), (330, 40702), (Start: 343 @40675 has 1 MA's), (379, 40621), (394, 40585), (401, 40570), (453, 40474), (456, 40465), (465, 40444), (532,

40378), (577, 40342), (596, 40288), (599, 40282), (602, 40276), (649, 40198), (661, 40183), (740, 40084), (788, 40009), (797, 39985), (801, 39973), (808, 39952), (812, 39937), (815, 39928), (830, 39907), (867, 39868), (870, 39859), (877, 39844), (907, 39793), (942, 39721), (964, 39679), (966, 39676), (971, 39661), (1013, 39565), (1036, 39514), (1055, 39484), (1066, 39451), (1097, 39394), (1106, 39379),

Gene: Elliott_53 Start: 38726, Stop: 37248, Start Num: 277

Candidate Starts for Elliott_53:

(Start: 277 @38726 has 49 MA's), (328, 38639), (330, 38633), (379, 38552), (388, 38531), (453, 38408), (454, 38405), (596, 38222), (599, 38216), (602, 38210), (649, 38132), (740, 38018), (772, 37991), (781, 37967), (801, 37907), (815, 37862), (830, 37841), (867, 37802), (875, 37784), (939, 37667), (964, 37619), (966, 37616), (971, 37601), (1013, 37505), (1023, 37484), (1036, 37454),

Gene: Ellewin_89 Start: 75969, Stop: 77813, Start Num: 71

Candidate Starts for Ellewin_89:

(Start: 71 @75969 has 13 MA's), (169, 76242), (248, 76350), (Start: 293 @76416 has 5 MA's), (329, 76485), (333, 76494), (438, 76569), (497, 76665), (601, 76878), (623, 76923), (648, 76962), (665, 76983), (693, 77028), (777, 77091), (788, 77124), (793, 77136), (797, 77148), (878, 77265), (881, 77271), (924, 77334), (947, 77373), (956, 77394), (993, 77478), (1040, 77571), (1054, 77595), (1147, 77763), (1149, 77766),

Gene: Elsa_79 Start: 46777, Stop: 48087, Start Num: 295

Candidate Starts for Elsa_79:

(Start: 295 @46777 has 213 MA's), (578, 47215), (587, 47245), (622, 47314), (645, 47359), (671, 47398), (677, 47407), (695, 47437), (722, 47482), (725, 47485), (765, 47521), (776, 47539), (778, 47545), (779, 47548), (781, 47551), (785, 47563), (805, 47623), (814, 47653), (1079, 47896), (1089, 47914), (1138, 47986), (1162, 48022),

Gene: Elver_140 Start: 72768, Stop: 74012, Start Num: 294

Candidate Starts for Elver_140:

(Start: 294 @72768 has 45 MA's), (312, 72807), (Start: 318 @72816 has 13 MA's), (388, 72942), (413, 72996), (578, 73209), (587, 73239), (622, 73308), (677, 73401), (773, 73524), (781, 73545), (805, 73617), (824, 73665), (867, 73683), (1012, 73749), (1047, 73818), (1068, 73869), (1096, 73920), (1107, 73938),

Gene: Emalyn_52 Start: 37827, Stop: 36349, Start Num: 277

Candidate Starts for Emalyn_52:

(Start: 277 @37827 has 49 MA's), (328, 37740), (330, 37734), (388, 37632), (Start: 408 @37590 has 1 MA's), (443, 37533), (451, 37515), (453, 37509), (577, 37377), (596, 37323), (599, 37317), (602, 37311), (649, 37233), (740, 37119), (772, 37092), (781, 37068), (794, 37029), (808, 36987), (815, 36963), (830, 36942), (867, 36903), (875, 36885), (877, 36879), (919, 36813), (939, 36768), (964, 36720), (966, 36717), (971, 36702), (1013, 36606), (1023, 36585), (1036, 36555), (1055, 36525), (1131, 36387),

Gene: Emianna_72 Start: 56707, Stop: 54641, Start Num: 35

Candidate Starts for Emianna_72:

(2, 57205), (5, 57004), (8, 56911), (9, 56899), (11, 56881), (Start: 35 @56707 has 35 MA's), (Start: 89 @56569 has 2 MA's), (96, 56545), (175, 56341), (198, 56296), (269, 56188), (339, 56074), (341, 56071), (394, 55981), (Start: 395 @55978 has 1 MA's), (441, 55918), (542, 55780), (553, 55762), (573, 55738), (627, 55615), (688, 55510), (777, 55384), (796, 55330), (865, 55204), (876, 55195), (885, 55171), (939, 55099), (942, 55093), (956, 55063), (981, 55006), (1009, 54946), (1040, 54883), (1078, 54802),

Gene: Emmetator_93 Start: 76561, Stop: 78405, Start Num: 71

Candidate Starts for Emmetator_93:

(Start: 71 @76561 has 13 MA's), (169, 76834), (248, 76942), (Start: 293 @77008 has 5 MA's), (329, 77077), (333, 77086), (438, 77161), (601, 77470), (623, 77515), (648, 77554), (665, 77575), (693, 77620), (730, 77677), (777, 77683), (788, 77716), (793, 77728), (797, 77740), (878, 77857), (881, 77863), (940, 77953), (956, 77986), (993, 78070), (1040, 78163), (1054, 78187), (1147, 78355), (1149, 78358),

Gene: EndAve_88 Start: 55092, Stop: 56306, Start Num: 295

Candidate Starts for EndAve_88:

(Start: 295 @55092 has 213 MA's), (299, 55098), (Start: 327 @55152 has 23 MA's), (333, 55167), (347, 55194), (349, 55197), (359, 55218), (392, 55260), (413, 55302), (429, 55329), (433, 55335), (452, 55374), (518, 55452), (519, 55455), (578, 55515), (623, 55617), (639, 55647), (657, 55674), (673, 55701), (677, 55707), (698, 55746), (700, 55749), (717, 55773), (720, 55779), (725, 55785), (760, 55812), (765, 55821), (776, 55839), (779, 55848), (781, 55851), (784, 55860), (795, 55893), (799, 55905), (807, 55929), (814, 55953), (865, 55983), (910, 55998), (1068, 56178), (1096, 56229), (1115, 56256), (1138, 56289),

Gene: Endor_41 Start: 31504, Stop: 30116, Start Num: 319

Candidate Starts for Endor_41:

(Start: 243 @31618 has 1 MA's), (257, 31597), (Start: 319 @31504 has 153 MA's), (405, 31360), (Start: 408 @31354 has 1 MA's), (410, 31351), (471, 31237), (511, 31210), (547, 31150), (572, 31123), (577, 31120), (622, 31024), (644, 30982), (781, 30811), (790, 30790), (817, 30715), (874, 30655), (927, 30559), (982, 30442), (991, 30424), (1023, 30358), (1024, 30352), (1031, 30340), (1077, 30244), (1109, 30190), (1112, 30187), (1128, 30163), (1151, 30133),

Gene: Ennea_79 Start: 57918, Stop: 55861, Start Num: 35

Candidate Starts for Ennea_79:

(6, 58206), (10, 58098), (Start: 35 @57918 has 35 MA's), (182, 57543), (Start: 275 @57402 has 1 MA's), (Start: 306 @57351 has 28 MA's), (339, 57291), (341, 57288), (Start: 387 @57216 has 1 MA's), (394, 57198), (441, 57135), (443, 57129), (454, 57102), (520, 57036), (542, 56997), (553, 56979), (573, 56955), (627, 56832), (645, 56799), (688, 56736), (777, 56613), (805, 56544), (810, 56526), (876, 56421), (879, 56412), (921, 56352), (939, 56319), (942, 56313), (956, 56283), (981, 56226), (1009, 56166), (1023, 56136), (1040, 56103), (1133, 55938),

Gene: Erasmago_105 Start: 76053, Stop: 74113, Start Num: 75

Candidate Starts for Erasmago_105:

(Start: 75 @76053 has 19 MA's), (118, 75927), (165, 75807), (222, 75732), (269, 75651), (281, 75639), (299, 75609), (519, 75189), (596, 75045), (630, 74976), (645, 74955), (688, 74895), (693, 74886), (700, 74871), (777, 74823), (788, 74790), (793, 74778), (808, 74745), (839, 74685), (860, 74670), (884, 74640), (944, 74553), (947, 74547), (976, 74484), (987, 74457), (1024, 74376), (1037, 74352), (1063, 74295), (1084, 74253), (1104, 74217),

Gene: Erenyeager_84 Start: 49578, Stop: 48058, Start Num: 292

Candidate Starts for Erenyeager_84:

(265, 49611), (Start: 292 @49578 has 28 MA's), (Start: 315 @49527 has 2 MA's), (374, 49428), (383, 49419), (412, 49353), (449, 49287), (535, 49164), (541, 49149), (578, 49092), (590, 49059), (592, 49056), (623, 48993), (653, 48942), (661, 48933), (665, 48924), (686, 48894), (697, 48870), (723, 48831), (745, 48816), (781, 48765), (787, 48747), (798, 48717), (821, 48654), (865, 48582), (1019, 48288), (1032, 48258), (1037, 48246), (1057, 48213), (1120, 48099),

Gene: Erk16_52 Start: 39875, Stop: 41818, Start Num: 65

Candidate Starts for Erk16_52:

(40, 39812), (Start: 65 @39875 has 24 MA's), (80, 39902), (104, 39974), (121, 40028), (140, 40088), (151, 40115), (174, 40166), (193, 40208), (219, 40244), (269, 40331), (329, 40424), (335, 40439), (347, 40460), (414, 40562), (438, 40595), (450, 40619), (512, 40679), (562, 40766), (596, 40841), (652, 40931), (688, 40982), (690, 40985), (764, 41075), (777, 41093), (788, 41126), (814, 41192), (824, 41210), (865, 41273), (939, 41357), (992, 41474), (1009, 41522), (1040, 41585), (1078, 41669),

Gene: Erla_40 Start: 30799, Stop: 29411, Start Num: 319

Candidate Starts for Erla_40:

(197, 31021), (Start: 319 @30799 has 153 MA's), (405, 30655), (Start: 408 @30649 has 1 MA's), (410, 30646), (471, 30532), (511, 30505), (547, 30445), (572, 30418), (577, 30415), (622, 30319), (644, 30277), (781, 30106), (790, 30085), (797, 30070), (801, 30058), (817, 30010), (874, 29950), (927, 29854), (960, 29791), (982, 29737), (1023, 29653), (1024, 29647), (1031, 29635), (1066, 29560), (1077, 29539), (1109, 29485), (1112, 29482), (1128, 29458),

Gene: Erudite_39 Start: 25497, Stop: 27404, Start Num: 68

Candidate Starts for Erudite_39:

(17, 25323), (Start: 68 @25497 has 36 MA's), (93, 25560), (106, 25581), (122, 25635), (176, 25770), (191, 25797), (199, 25812), (229, 25857), (335, 26031), (339, 26040), (394, 26130), (415, 26172), (422, 26187), (543, 26373), (620, 26508), (624, 26520), (650, 26553), (777, 26682), (810, 26769), (824, 26799), (993, 27072), (1010, 27111), (1037, 27171), (1080, 27261), (1097, 27291), (1126, 27333), (1163, 27384),

Gene: Erutan_60 Start: 40423, Stop: 42336, Start Num: 58

Candidate Starts for Erutan_60:

(18, 40297), (21, 40306), (24, 40318), (33, 40351), (Start: 55 @40420 has 13 MA's), (Start: 58 @40423 has 23 MA's), (Start: 76 @40435 has 2 MA's), (Start: 89 @40483 has 2 MA's), (Start: 103 @40516 has 1 MA's), (155, 40675), (172, 40702), (175, 40711), (219, 40783), (269, 40870), (Start: 297 @40903 has 15 MA's), (331, 40966), (Start: 387 @41056 has 1 MA's), (401, 41083), (509, 41212), (519, 41236), (542, 41278), (577, 41326), (583, 41347), (590, 41368), (620, 41425), (652, 41479), (679, 41521), (716, 41581), (788, 41677), (790, 41680), (951, 41908), (992, 41998), (1009, 42034), (1012, 42040), (1037, 42094), (1059, 42133), (1112, 42235), (1123, 42250), (1137, 42271),

Gene: Esketit_77 Start: 48345, Stop: 49529, Start Num: 295

Candidate Starts for Esketit_77:

(Start: 295 @48345 has 213 MA's), (Start: 318 @48390 has 13 MA's), (333, 48420), (455, 48591), (518, 48663), (547, 48702), (587, 48765), (677, 48927), (698, 48966), (701, 48972), (720, 48999), (781, 49071), (799, 49125), (807, 49149), (814, 49173), (817, 49179), (909, 49203), (978, 49209), (1036, 49323), (1086, 49422), (1089, 49428), (1107, 49458), (1115, 49467), (1153, 49521),

Gene: Espinosa_40 Start: 30814, Stop: 29426, Start Num: 319

Candidate Starts for Espinosa_40:

(197, 31036), (Start: 319 @30814 has 153 MA's), (405, 30670), (Start: 408 @30664 has 1 MA's), (410, 30661), (471, 30547), (511, 30520), (547, 30460), (572, 30433), (577, 30430), (622, 30334), (644, 30292), (781, 30121), (790, 30100), (797, 30085), (817, 30025), (874, 29965), (927, 29869), (960, 29806), (982, 29752), (1023, 29668), (1024, 29662), (1031, 29650), (1077, 29554), (1109, 29500), (1112, 29497), (1128, 29473),

Gene: Espio_79 Start: 50128, Stop: 51312, Start Num: 295

Candidate Starts for Espio_79:

(Start: 295 @50128 has 213 MA's), (Start: 318 @50173 has 13 MA's), (333, 50203), (455, 50374), (587, 50548), (673, 50704), (677, 50710), (698, 50749), (701, 50755), (720, 50782), (781, 50854), (799, 50908), (807, 50932), (814, 50956), (817, 50962), (909, 50986), (978, 50992), (1036, 51106), (1086, 51205), (1089, 51211), (1107, 51241), (1115, 51250), (1147, 51295),

Gene: EstebanJulior_26 Start: 21743, Stop: 23140, Start Num: 295

Candidate Starts for EstebanJulior_26:

(Start: 295 @21743 has 213 MA's), (328, 21803), (Start: 387 @21908 has 1 MA's), (388, 21911), (429, 21995), (452, 22028), (509, 22079), (512, 22085), (575, 22166), (580, 22175), (590, 22211), (599, 22229), (601, 22232), (610, 22265), (620, 22286), (704, 22418), (754, 22475), (761, 22484), (775, 22505), (777, 22511), (788, 22544), (794, 22559), (821, 22619), (866, 22649), (942, 22730), (963, 22772), (977, 22805), (1003, 22868), (1010, 22877), (1017, 22889), (1019, 22895), (1024, 22910), (1031, 22922), (1034, 22931), (1072, 23018), (1117, 23075), (1140, 23108),

Gene: Etna_40 Start: 31284, Stop: 29893, Start Num: 319

Candidate Starts for Etna_40:

(Start: 243 @31398 has 1 MA's), (Start: 302 @31314 has 13 MA's), (Start: 319 @31284 has 153 MA's), (405, 31137), (Start: 408 @31131 has 1 MA's), (410, 31128), (471, 31014), (511, 30987), (547, 30927), (572, 30900), (577, 30897), (622, 30801), (644, 30759), (781, 30588), (790, 30567), (874, 30432), (927, 30336), (982, 30219), (991, 30201), (1023, 30135), (1024, 30129), (1031, 30117), (1077, 30021), (1109, 29967), (1112, 29964), (1128, 29940), (1151, 29910),

Gene: Etta_40 Start: 30803, Stop: 29415, Start Num: 319

Candidate Starts for Etta_40:

(197, 31025), (Start: 319 @30803 has 153 MA's), (405, 30659), (Start: 408 @30653 has 1 MA's), (410, 30650), (471, 30536), (511, 30509), (547, 30449), (572, 30422), (577, 30419), (622, 30323), (644, 30281), (781, 30110), (790, 30089), (797, 30074), (801, 30062), (817, 30014), (874, 29954), (927, 29858), (960, 29795), (982, 29741), (1023, 29657), (1024, 29651), (1031, 29639), (1066, 29564), (1077, 29543), (1109, 29489), (1112, 29486), (1128, 29462),

Gene: Eunoia_26 Start: 21745, Stop: 23139, Start Num: 295

Candidate Starts for Eunoia_26:

(Start: 295 @21745 has 213 MA's), (328, 21802), (379, 21889), (Start: 387 @21907 has 1 MA's), (388, 21910), (429, 21994), (452, 22027), (509, 22078), (512, 22084), (547, 22144), (580, 22174), (590, 22210), (599, 22228), (620, 22285), (627, 22303), (630, 22309), (650, 22336), (704, 22417), (719, 22444), (742, 22468), (761, 22483), (777, 22510), (788, 22543), (794, 22558), (924, 22690), (940, 22726), (953, 22753), (961, 22765), (969, 22783), (1009, 22873), (1012, 22879), (1019, 22894), (1020, 22897), (1034, 22930), (1063, 22990), (1072, 23017), (1117, 23074), (1140, 23107), (1156, 23131),

Gene: Exiguo_58 Start: 51466, Stop: 49934, Start Num: 306

Candidate Starts for Exiguo_58:

(177, 51721), (201, 51670), (220, 51619), (248, 51565), (265, 51535), (Start: 290 @51502 has 3 MA's), (Start: 295 @51493 has 213 MA's), (Start: 306 @51466 has 28 MA's), (Start: 395 @51298 has 1 MA's), (416, 51256), (443, 51208), (449, 51196), (453, 51184), (455, 51178), (464, 51157), (479, 51130), (525, 50989), (580, 50902), (583, 50887), (587, 50875), (601, 50845), (622, 50794), (634, 50767), (665, 50716), (690, 50674), (698, 50656), (700, 50653), (714, 50626), (747, 50584), (776, 50539), (857, 50404), (865, 50389), (883, 50368), (937, 50311), (951, 50287), (953, 50284), (982, 50227), (985, 50221), (988, 50215), (990, 50209), (1016, 50158), (1025, 50134), (1048, 50095), (1055, 50083), (1057, 50080), (1099, 49987), (1109, 49972), (1125, 49951),

Gene: Exploradora_40 Start: 30803, Stop: 29415, Start Num: 319

Candidate Starts for Exploradora_40:

(197, 31025), (Start: 319 @30803 has 153 MA's), (405, 30659), (Start: 408 @30653 has 1 MA's), (410, 30650), (471, 30536), (511, 30509), (547, 30449), (572, 30422), (577, 30419), (622, 30323), (644, 30281), (781, 30110), (790, 30089), (797, 30074), (817, 30014), (874, 29954), (927, 29858), (960, 29795), (982, 29741), (1023, 29657), (1024, 29651), (1031, 29639), (1077, 29543), (1109, 29489), (1112, 29486), (1128, 29462),

Gene: Ezurina_37 Start: 27463, Stop: 25631, Start Num: 75

Candidate Starts for Ezurina_37:

(Start: 75 @27463 has 19 MA's), (90, 27406), (174, 27205), (248, 27070), (341, 26908), (438, 26851), (444, 26836), (519, 26686), (522, 26680), (530, 26665), (557, 26620), (583, 26572), (590, 26551), (599, 26533), (624, 26482), (693, 26377), (777, 26314), (808, 26242), (875, 26161), (903, 26128), (920, 26095), (933, 26077), (940, 26059), (942, 26056), (961, 26020), (1009, 25912), (1013, 25903), (1044, 25843), (1063, 25795), (1087, 25747),

Gene: FF47_48 Start: 38882, Stop: 37371, Start Num: 250

Candidate Starts for FF47_48:

(Start: 250 @38882 has 2 MA's), (279, 38846), (329, 38756), (330, 38753), (355, 38705), (394, 38636), (455, 38522), (578, 38393), (596, 38342), (599, 38336), (602, 38330), (615, 38306), (649, 38252), (772, 38111), (773, 38108), (793, 38051), (815, 37979), (817, 37976), (940, 37781), (964, 37736), (1009, 37631), (1036, 37571), (1131, 37403), (1146, 37382),

Gene: FarmerDoug_40 Start: 31139, Stop: 29748, Start Num: 319

Candidate Starts for FarmerDoug_40:

(157, 31427), (167, 31406), (Start: 319 @31139 has 153 MA's), (405, 30992), (Start: 408 @30986 has 1 MA's), (410, 30983), (443, 30923), (471, 30869), (511, 30842), (547, 30782), (572, 30755), (577, 30752), (622, 30656), (644, 30614), (781, 30443), (790, 30422), (801, 30395), (817, 30347), (866, 30305), (874, 30287), (927, 30191), (982, 30074), (991, 30056), (1012, 30014), (1023, 29990), (1024, 29984), (1031, 29972), (1077, 29876), (1109, 29822), (1112, 29819), (1128, 29795), (1151, 29765),

Gene: Fazel_87 Start: 53972, Stop: 55189, Start Num: 295

Candidate Starts for Fazel_87:

(Start: 295 @53972 has 213 MA's), (Start: 327 @54032 has 23 MA's), (328, 54035), (333, 54047), (349, 54077), (359, 54098), (392, 54140), (413, 54182), (455, 54260), (512, 54317), (518, 54332), (519, 54335), (578, 54395), (604, 54461), (671, 54578), (673, 54581), (677, 54587), (711, 54644), (715, 54650), (717, 54653), (720, 54659), (725, 54665), (755, 54686), (765, 54701), (773, 54710), (776, 54719), (781, 54731), (799, 54785), (819, 54842), (1012, 54938), (1018, 54950), (1036, 54992), (1068, 55058), (1079, 55079), (1086, 55091), (1115, 55136), (1142, 55175),

Gene: Feastonyeet_56 Start: 40283, Stop: 38805, Start Num: 277

Candidate Starts for Feastonyeet_56:

(217, 40361), (248, 40310), (Start: 250 @40307 has 2 MA's), (Start: 277 @40283 has 49 MA's), (312, 40220), (328, 40199), (330, 40193), (Start: 343 @40166 has 1 MA's), (379, 40112), (394, 40076), (401, 40061), (453, 39965), (456, 39956), (465, 39935), (532, 39869), (577, 39833), (596, 39779), (599, 39773), (602, 39767), (649, 39689), (661, 39674), (740, 39575), (788, 39500), (797, 39476), (801, 39464), (808, 39443), (812, 39428), (815, 39419), (830, 39398), (867, 39359), (870, 39350), (877, 39335), (907, 39284), (942, 39212), (964, 39170), (971, 39152), (1013, 39056), (1036, 39005), (1055, 38975), (1066, 38942), (1097, 38885), (1106, 38870),

Gene: FelixAlejandro_64 Start: 54160, Stop: 52628, Start Num: 306

Candidate Starts for FelixAlejandro_64:

(177, 54415), (201, 54364), (248, 54259), (265, 54229), (Start: 290 @54196 has 3 MA's), (Start: 295 @54187 has 213 MA's), (Start: 306 @54160 has 28 MA's), (381, 54028), (Start: 395 @53992 has 1 MA's), (416, 53950), (426, 53932), (443, 53902), (449, 53890), (453, 53878), (455, 53872), (464, 53851), (525, 53683), (580, 53596), (583, 53581), (587, 53569), (601, 53539), (622, 53488), (665, 53410), (679, 53386), (690, 53368), (698, 53350), (700, 53347), (705, 53338), (714, 53320), (776, 53233), (857, 53098), (865, 53083), (883, 53062), (951, 52981), (953, 52978), (982, 52921), (985, 52915), (990, 52903), (1016, 52852), (1025, 52828), (1048, 52789), (1055, 52777), (1057, 52774), (1099, 52681), (1109, 52666), (1125, 52645),

Gene: FidgetOrca_83 Start: 49795, Stop: 50979, Start Num: 295

Candidate Starts for FidgetOrca_83:

(Start: 295 @49795 has 213 MA's), (Start: 318 @49840 has 13 MA's), (333, 49870), (455, 50041), (518, 50113), (547, 50152), (587, 50215), (677, 50377), (698, 50416), (701, 50422), (720, 50449), (781, 50521), (799, 50575), (807, 50599), (814, 50623), (817, 50629), (909, 50653), (978, 50659), (1036, 50773), (1086, 50872), (1089, 50878), (1107, 50908), (1115, 50917), (1153, 50971),

Gene: Figliar_85 Start: 54986, Stop: 56200, Start Num: 295

Candidate Starts for Figliar_85:

(Start: 295 @54986 has 213 MA's), (299, 54992), (Start: 327 @55046 has 23 MA's), (328, 55049), (333, 55061), (347, 55088), (349, 55091), (359, 55112), (392, 55154), (413, 55196), (433, 55229), (452, 55268), (518, 55346), (519, 55349), (578, 55409), (623, 55511), (639, 55541), (671, 55592), (677, 55601), (698, 55640), (700, 55643), (717, 55667), (720, 55673), (725, 55679), (765, 55715), (776, 55733), (779, 55742), (781, 55745), (784, 55754), (798, 55796), (805, 55817), (807, 55823), (814, 55847), (865, 55877), (1018, 55964), (1068, 56072), (1087, 56108), (1096, 56123), (1115, 56150), (1138, 56183),

Gene: Figueroism_41 Start: 31108, Stop: 29720, Start Num: 319

Candidate Starts for Figueroism_41:

(197, 31330), (Start: 319 @31108 has 153 MA's), (405, 30964), (Start: 408 @30958 has 1 MA's), (410, 30955), (471, 30841), (511, 30814), (547, 30754), (572, 30727), (577, 30724), (622, 30628), (644, 30586), (781, 30415), (790, 30394), (797, 30379), (801, 30367), (817, 30319), (874, 30259), (927, 30163), (960, 30100), (982, 30046), (1023, 29962), (1024, 29956), (1031, 29944), (1077, 29848), (1109, 29794), (1112, 29791), (1128, 29767),

Gene: Finny_41 Start: 30901, Stop: 29525, Start Num: 343

Candidate Starts for Finny_41:

(Start: 323 @30940 has 8 MA's), (Start: 327 @30937 has 23 MA's), (339, 30907), (Start: 343 @30901 has 1 MA's), (364, 30868), (471, 30676), (511, 30649), (547, 30589), (572, 30562), (577, 30559), (590, 30517), (622, 30463), (644, 30421), (727, 30307), (781, 30250), (790, 30229), (801, 30202), (805, 30190), (806, 30187), (811, 30169), (857, 30088), (874, 30052), (903, 29998), (925, 29956), (940, 29926), (953, 29902), (957, 29896), (977, 29854), (1009, 29785), (1020, 29761), (1023, 29755), (1024, 29749), (1031, 29737), (1093, 29614), (1099, 29602), (1131, 29557),

Gene: FireCastle_33 Start: 23203, Stop: 24633, Start Num: 296

Candidate Starts for FireCastle_33:

(247, 23134), (Start: 296 @23203 has 1 MA's), (Start: 298 @23206 has 19 MA's), (464, 23524), (511, 23563), (519, 23584), (583, 23671), (590, 23692), (777, 24007), (785, 24028), (794, 24055), (807, 24082), (808, 24085), (817, 24112), (821, 24118), (903, 24154), (932, 24202), (944, 24232), (981, 24316), (992, 24337), (1020, 24391), (1027, 24409), (1034, 24424), (1043, 24436), (1061, 24475), (1072, 24511), (1075, 24517), (1082, 24529), (1134, 24592), (1158, 24628),

Gene: Flakey_58 Start: 52330, Stop: 50798, Start Num: 306

Candidate Starts for Flakey_58:

(177, 52585), (201, 52534), (220, 52483), (248, 52429), (265, 52399), (Start: 290 @52366 has 3 MA's), (Start: 295 @52357 has 213 MA's), (Start: 306 @52330 has 28 MA's), (Start: 395 @52162 has 1 MA's), (416, 52120), (443, 52072), (449, 52060), (453, 52048), (455, 52042), (464, 52021), (479, 51994), (525, 51853), (580, 51766), (583, 51751), (587, 51739), (601, 51709), (622, 51658), (634, 51631), (665, 51580), (690, 51538), (698, 51520), (700, 51517), (714, 51490), (747, 51448), (776, 51403), (857, 51268), (865, 51253), (883, 51232), (937, 51175), (951, 51151), (953, 51148), (982, 51091), (985, 51085), (988, 51079), (990, 51073), (1016, 51022), (1025, 50998), (1048, 50959), (1055, 50947), (1057, 50944), (1099, 50851), (1109, 50836), (1125, 50815),

Gene: Flapper_75 Start: 57019, Stop: 54962, Start Num: 35

Candidate Starts for Flapper_75:

(6, 57304), (11, 57187), (14, 57169), (Start: 35 @57019 has 35 MA's), (123, 56794), (269, 56506), (Start: 306 @56452 has 28 MA's), (329, 56416), (339, 56392), (341, 56389), (389, 56311), (394, 56299), (403, 56281), (441, 56236), (443, 56230), (459, 56191), (520, 56137), (542, 56098), (553, 56080), (627, 55933), (645, 55900), (666, 55870), (670, 55864), (688, 55837), (777, 55714), (805, 55645), (810, 55627), (876, 55522), (879, 55513), (888, 55495), (921, 55453), (942, 55414), (956, 55384), (968, 55366), (981, 55327), (1009, 55267), (1023, 55237), (1040, 55204), (1060, 55162), (1157, 55006),

Gene: Float294_74 Start: 57824, Stop: 55767, Start Num: 35

Candidate Starts for Float294_74:

(10, 58004), (Start: 35 @57824 has 35 MA's), (182, 57449), (251, 57341), (Start: 275 @57308 has 1 MA's), (Start: 306 @57257 has 28 MA's), (339, 57197), (341, 57194), (Start: 387 @57122 has 1 MA's), (394, 57104), (441, 57041), (443, 57035), (454, 57008), (520, 56942), (542, 56903), (553, 56885), (573, 56861), (627, 56738), (645, 56705), (688, 56642), (777, 56519), (805, 56450), (810, 56432), (876, 56327), (921, 56258), (942, 56219), (953, 56195), (956, 56189), (981, 56132), (1009, 56072), (1023, 56042), (1040, 56009), (1133, 55844),

Gene: FloraSnap32_101 Start: 79635, Stop: 81473, Start Num: 71

Candidate Starts for FloraSnap32_101:

(Start: 71 @79635 has 13 MA's), (127, 79794), (169, 79890), (222, 79950), (239, 79980), (310, 80100), (337, 80151), (435, 80211), (648, 80607), (665, 80628), (693, 80673), (730, 80730), (777, 80736), (788, 80769), (793, 80781), (797, 80793), (805, 80808), (814, 80838), (839, 80877), (888, 80934), (903, 80940), (920, 80973), (956, 81042), (993, 81126), (1027, 81198), (1054, 81243), (1152, 81417), (1169, 81459),

Gene: Fluke_29 Start: 22148, Stop: 23548, Start Num: 295

Candidate Starts for Fluke_29:

(Start: 295 @22148 has 213 MA's), (328, 22211), (Start: 387 @22316 has 1 MA's), (388, 22319), (429, 22403), (452, 22436), (509, 22487), (512, 22493), (575, 22574), (577, 22577), (580, 22583), (590, 22619), (599, 22637), (601, 22640), (610, 22673), (620, 22694), (627, 22712), (650, 22745), (704, 22826), (719, 22853), (754, 22883), (761, 22892), (777, 22919), (788, 22952), (794, 22967), (817, 23021), (860, 23042), (865, 23054), (904, 23066), (1012, 23288), (1017, 23297), (1019, 23303), (1034, 23339), (1063, 23399), (1072, 23426), (1140, 23516),

Gene: Football_91 Start: 53701, Stop: 54921, Start Num: 295

Candidate Starts for Football_91:

(Start: 295 @53701 has 213 MA's), (312, 53737), (Start: 318 @53746 has 13 MA's), (329, 53767), (349, 53806), (359, 53827), (433, 53944), (445, 53968), (452, 53983), (590, 54163), (623, 54226), (639, 54256), (650, 54274), (671, 54307), (677, 54316), (717, 54382), (722, 54391), (725, 54394), (765, 54430), (773, 54439), (776, 54448), (781, 54460), (798, 54511), (799, 54514), (814, 54565), (819, 54574), (992, 54643), (1018, 54682), (1068, 54790), (1086, 54823), (1096, 54841), (1115, 54868),

Gene: Fork_80 Start: 49528, Stop: 48008, Start Num: 292

Candidate Starts for Fork_80:

(265, 49561), (Start: 292 @49528 has 28 MA's), (Start: 315 @49477 has 2 MA's), (383, 49369), (412, 49303), (449, 49237), (535, 49114), (541, 49099), (578, 49042), (590, 49009), (592, 49006), (623, 48943), (653, 48892), (661, 48883), (665, 48874), (668, 48868), (686, 48844), (697, 48820), (723, 48781), (745, 48766), (781, 48715), (787, 48697), (798, 48667), (840, 48577), (865, 48532), (962, 48346), (1019, 48238), (1032, 48208), (1057, 48163), (1077, 48112), (1105, 48067), (1120, 48049),

Gene: FortCran_87 Start: 53621, Stop: 54841, Start Num: 295

Candidate Starts for FortCran_87:

(Start: 295 @53621 has 213 MA's), (Start: 327 @53681 has 23 MA's), (328, 53684), (347, 53723), (359, 53747), (392, 53789), (413, 53831), (433, 53864), (452, 53903), (455, 53909), (518, 53981), (578, 54044), (623, 54146), (639, 54176), (650, 54194), (671, 54227), (673, 54230), (677, 54236), (711, 54293), (717, 54302), (722, 54311), (725, 54314), (765, 54350), (773, 54359), (776, 54368), (781, 54380), (798, 54431), (799, 54434), (814, 54485), (819, 54494), (1018, 54602), (1068, 54710), (1086, 54743), (1096, 54761), (1105, 54776),

Gene: Forza_170 Start: 96758, Stop: 94848, Start Num: 70

Candidate Starts for Forza_170:

(Start: 70 @96758 has 5 MA's), (144, 96554), (165, 96506), (191, 96461), (225, 96380), (232, 96368), (299, 96263), (310, 96236), (430, 96131), (444, 96107), (533, 95942), (688, 95675), (693, 95666), (709, 95639), (788, 95570), (920, 95321), (951, 95255), (965, 95231), (1024, 95096), (1058, 95036), (1089, 94964),

Gene: FountainFog_39 Start: 25221, Stop: 27128, Start Num: 68

Candidate Starts for FountainFog_39:

(Start: 68 @25221 has 36 MA's), (93, 25284), (106, 25305), (122, 25359), (191, 25521), (199, 25536), (229, 25581), (335, 25755), (339, 25764), (394, 25854), (Start: 395 @25857 has 1 MA's), (415, 25896), (422, 25911), (543, 26097), (603, 26205), (620, 26232), (624, 26244), (777, 26406), (824, 26523), (1009, 26832), (1010, 26835), (1037, 26895), (1080, 26985), (1097, 27015), (1126, 27057), (1163, 27108),

Gene: Fowlmouth_74 Start: 44820, Stop: 46667, Start Num: 95

Candidate Starts for Fowlmouth_74:

(Start: 95 @44820 has 3 MA's), (108, 44838), (118, 44874), (136, 44925), (182, 45033), (199, 45066), (239, 45126), (263, 45168), (Start: 295 @45207 has 213 MA's), (Start: 348 @45303 has 1 MA's), (354, 45315), (Start: 375 @45342 has 28 MA's), (Start: 384 @45357 has 1 MA's), (Start: 387 @45366 has 1 MA's), (405, 45405), (412, 45420), (457, 45507), (466, 45519), (548, 45618), (553, 45624), (573, 45648), (596, 45708), (638, 45786), (660, 45813), (679, 45843), (688, 45855), (700, 45879), (775, 45951), (777, 45957), (788, 45990), (794, 46005), (806, 46029), (807, 46032), (814, 46056), (1009, 46380), (1013, 46389), (1024, 46416), (1037, 46440), (1060, 46485), (1078, 46527), (1106, 46575), (1121, 46593), (1162, 46650),

Gene: Foxboro_72 Start: 56919, Stop: 54853, Start Num: 35

Candidate Starts for Foxboro_72:

(8, 57123), (9, 57111), (11, 57093), (Start: 35 @56919 has 35 MA's), (Start: 89 @56781 has 2 MA's), (96, 56757), (175, 56553), (198, 56508), (269, 56400), (339, 56286), (341, 56283), (394, 56193), (Start: 395 @56190 has 1 MA's), (441, 56130), (542, 55992), (553, 55974), (573, 55950), (627, 55827), (688, 55722), (777, 55596), (796, 55542), (865, 55416), (876, 55407), (885, 55383), (939, 55311), (942, 55305), (956, 55275), (981, 55218), (1009, 55158), (1040, 55095), (1078, 55014),

Gene: Frankenweenie_134 Start: 87252, Stop: 85606, Start Num: 255

Candidate Starts for Frankenweenie_134:

(195, 87378), (Start: 255 @87252 has 9 MA's), (332, 87120), (443, 86925), (514, 86823), (558, 86748), (561, 86745), (649, 86571), (678, 86529), (712, 86472), (752, 86427), (828, 86253), (844, 86229), (860, 86199), (865, 86187), (870, 86172), (892, 86124), (946, 86010), (962, 85980), (970, 85959), (974, 85950), (979, 85938), (1005, 85878), (1056, 85782), (1057, 85779), (1110, 85677), (1129, 85650),

Gene: FreddieHg_40 Start: 25185, Stop: 27092, Start Num: 68

Candidate Starts for FreddieHg_40:

(17, 25011), (Start: 68 @25185 has 36 MA's), (93, 25248), (106, 25269), (122, 25323), (176, 25458), (199, 25500), (229, 25545), (335, 25719), (339, 25728), (394, 25818), (415, 25860), (422, 25875), (543, 26061), (620, 26196), (624, 26208), (650, 26241), (777, 26370), (824, 26487), (993, 26760), (1010, 26799), (1037, 26859), (1080, 26949), (1097, 26979), (1126, 27021), (1163, 27072),

Gene: Fribs8_48 Start: 37679, Stop: 36189, Start Num: 278

Candidate Starts for Fribs8_48:

(Start: 278 @37679 has 3 MA's), (328, 37595), (330, 37589), (Start: 343 @37562 has 1 MA's), (379, 37508), (383, 37502), (394, 37472), (Start: 408 @37445 has 1 MA's), (453, 37364), (454, 37361), (456, 37355), (465, 37334), (532, 37268), (577, 37232), (584, 37208), (596, 37178), (597, 37175), (599, 37172), (602, 37166), (639, 37103), (649, 37088), (661, 37073), (772, 36947), (788, 36899), (808, 36842), (811, 36830), (815, 36818), (817, 36815), (857, 36779), (867, 36758), (868, 36755), (875, 36740), (886, 36713), (903, 36677), (907, 36668), (940, 36599), (964, 36554), (981, 36509), (988, 36494), (998, 36464), (1013, 36440), (1036, 36389), (1055, 36359), (1085, 36293), (1097, 36269), (1121, 36236), (1146, 36200),

Gene: Frizzle_34 Start: 32091, Stop: 30688, Start Num: 303

Candidate Starts for Frizzle_34:

(180, 32331), (181, 32328), (228, 32217), (Start: 303 @32091 has 4 MA's), (339, 32016), (353, 31992), (355, 31989), (381, 31959), (383, 31956), (438, 31845), (511, 31770), (512, 31767), (519, 31749), (540, 31716), (542, 31713), (575, 31686), (583, 31662), (594, 31635), (651, 31509), (654, 31506), (740, 31383), (741, 31380), (772, 31350), (773, 31347), (806, 31263), (827, 31218), (963, 31071), (976, 31041), (977, 31038), (1075, 30819), (1100, 30777),

Gene: FrodoSwaggins_79 Start: 50151, Stop: 51335, Start Num: 295

Candidate Starts for FrodoSwaggins_79:

(Start: 295 @50151 has 213 MA's), (Start: 318 @50196 has 13 MA's), (328, 50214), (333, 50226), (455, 50397), (587, 50571), (673, 50727), (677, 50733), (698, 50772), (701, 50778), (720, 50805), (781, 50877), (799, 50931), (807, 50955), (814, 50979), (817, 50985), (909, 51009), (978, 51015), (1036, 51129), (1086, 51228), (1089, 51234), (1107, 51264), (1115, 51273), (1147, 51318),

Gene: FromIndy_87 Start: 50623, Stop: 51813, Start Num: 295

Candidate Starts for FromIndy_87:

(Start: 295 @50623 has 213 MA's), (349, 50728), (413, 50797), (519, 50950), (536, 50968), (594, 51055), (622, 51109), (677, 51202), (693, 51229), (784, 51355), (805, 51418), (814, 51448), (824, 51466), (1047, 51613), (1077, 51682), (1086, 51697), (1095, 51712), (1105, 51730), (1107, 51733), (1115, 51742),

Gene: FrostedClock_104 Start: 80935, Stop: 82773, Start Num: 71

Candidate Starts for FrostedClock_104:

(Start: 71 @80935 has 13 MA's), (Start: 94 @81016 has 4 MA's), (127, 81094), (169, 81190), (222, 81250), (239, 81280), (310, 81400), (337, 81451), (435, 81511), (613, 81850), (648, 81907), (665, 81928), (693, 81973), (730, 82030), (777, 82036), (788, 82069), (793, 82081), (797, 82093), (814, 82138), (839, 82177), (888, 82234), (903, 82240), (920, 82273), (956, 82342), (993, 82426), (1054, 82543), (1152, 82717), (1169, 82759),

Gene: Fulcrum_60 Start: 40439, Stop: 42352, Start Num: 58

Candidate Starts for Fulcrum_60:

(18, 40313), (21, 40322), (24, 40334), (33, 40367), (Start: 55 @40436 has 13 MA's), (Start: 58 @40439 has 23 MA's), (Start: 76 @40451 has 2 MA's), (Start: 89 @40499 has 2 MA's), (Start: 103 @40532 has 1 MA's), (125, 40601), (155, 40691), (172, 40718), (175, 40727), (219, 40799), (Start: 297 @40919 has 15 MA's), (331, 40982), (Start: 387 @41072 has 1 MA's), (401, 41099), (509, 41228), (519, 41252),

(542, 41294), (562, 41321), (577, 41342), (583, 41363), (590, 41384), (620, 41441), (627, 41459), (652, 41495), (679, 41537), (716, 41597), (788, 41693), (790, 41696), (951, 41924), (992, 42014), (1009, 42050), (1012, 42056), (1037, 42110), (1059, 42149), (1112, 42251), (1123, 42266), (1137, 42287),

Gene: Fulton_40 Start: 29072, Stop: 27645, Start Num: 319

Candidate Starts for Fulton_40:

(Start: 319 @29072 has 153 MA's), (336, 29042), (339, 29036), (Start: 408 @28922 has 1 MA's), (410, 28919), (572, 28682), (577, 28679), (727, 28424), (778, 28373), (781, 28367), (801, 28319), (811, 28286), (817, 28271), (863, 28199), (874, 28172), (877, 28163), (903, 28118), (905, 28112), (920, 28085), (960, 28013), (991, 27941), (1009, 27905), (1013, 27896), (1020, 27881), (1023, 27875), (1031, 27857), (1055, 27815), (1082, 27752), (1123, 27689), (1128, 27680),

Gene: Fury_82 Start: 56141, Stop: 54093, Start Num: 35

Candidate Starts for Fury_82:

(Start: 35 @56141 has 35 MA's), (92, 55988), (105, 55973), (129, 55892), (182, 55769), (198, 55739), (269, 55631), (Start: 297 @55598 has 15 MA's), (325, 55547), (341, 55514), (394, 55424), (412, 55391), (441, 55361), (511, 55286), (553, 55205), (583, 55154), (627, 55058), (645, 55025), (670, 54989), (688, 54962), (775, 54845), (777, 54839), (805, 54770), (810, 54752), (814, 54740), (921, 54578), (942, 54545), (956, 54515), (965, 54500), (981, 54458), (1040, 54335), (1078, 54254), (1093, 54230), (1133, 54170),

Gene: GMA2_64 Start: 67776, Stop: 65812, Start Num: 71

Candidate Starts for GMA2_64:

(Start: 71 @67776 has 13 MA's), (118, 67644), (225, 67386), (299, 67269), (Start: 302 @67263 has 13 MA's), (310, 67242), (335, 67197), (430, 67137), (444, 67113), (459, 67077), (504, 67011), (519, 66972), (549, 66918), (583, 66864), (687, 66684), (693, 66672), (788, 66576), (795, 66558), (812, 66504), (895, 66342), (965, 66198), (1012, 66093), (1040, 66036), (1058, 66003), (1137, 65859),

Gene: GMA3_58 Start: 50868, Stop: 49351, Start Num: 316

Candidate Starts for GMA3_58:

(186, 51117), (192, 51111), (221, 51039), (Start: 316 @50868 has 5 MA's), (385, 50772), (Start: 395 @50745 has 1 MA's), (Start: 408 @50727 has 1 MA's), (412, 50718), (428, 50691), (443, 50673), (455, 50643), (469, 50613), (478, 50592), (483, 50571), (503, 50493), (516, 50463), (523, 50448), (536, 50427), (584, 50334), (599, 50298), (622, 50244), (665, 50166), (700, 50103), (714, 50076), (723, 50061), (731, 50052), (781, 49989), (794, 49950), (814, 49890), (827, 49869), (856, 49866), (857, 49863), (890, 49815), (973, 49653), (990, 49611), (1014, 49563), (1048, 49497), (1055, 49485),

Gene: GMA7_51 Start: 46927, Stop: 45296, Start Num: 223

Candidate Starts for GMA7_51:

(Start: 223 @46927 has 3 MA's), (227, 46915), (261, 46864), (263, 46858), (Start: 303 @46801 has 4 MA's), (Start: 395 @46660 has 1 MA's), (416, 46618), (421, 46606), (443, 46570), (444, 46567), (455, 46540), (472, 46504), (479, 46492), (483, 46477), (516, 46369), (580, 46264), (583, 46249), (635, 46126), (665, 46078), (679, 46054), (690, 46036), (714, 45988), (758, 45937), (776, 45901), (783, 45883), (857, 45766), (905, 45715), (937, 45673), (973, 45613), (990, 45571), (1016, 45520), (1025, 45496), (1109, 45334), (1125, 45313),

Gene: GOATification_60 Start: 40439, Stop: 42352, Start Num: 58

Candidate Starts for GOATification_60:

(18, 40313), (21, 40322), (24, 40334), (33, 40367), (Start: 55 @40436 has 13 MA's), (Start: 58 @40439 has 23 MA's), (Start: 76 @40451 has 2 MA's), (Start: 89 @40499 has 2 MA's), (Start: 103 @40532 has 1 MA's), (125, 40601), (155, 40691), (172, 40718), (175, 40727), (219, 40799), (Start: 297 @40919 has 15 MA's), (331, 40982), (Start: 387 @41072 has 1 MA's), (401, 41099), (509, 41228), (519, 41252),

(542, 41294), (562, 41321), (577, 41342), (583, 41363), (590, 41384), (620, 41441), (627, 41459), (652, 41495), (679, 41537), (716, 41597), (788, 41693), (790, 41696), (951, 41924), (992, 42014), (1009, 42050), (1012, 42056), (1037, 42110), (1059, 42149), (1112, 42251), (1123, 42266), (1137, 42287),

Gene: GRU1_61 Start: 48864, Stop: 46807, Start Num: 35

Candidate Starts for GRU1_61:

(11, 49032), (Start: 35 @48864 has 35 MA's), (239, 48402), (269, 48351), (339, 48237), (341, 48234), (389, 48156), (394, 48144), (403, 48126), (441, 48081), (443, 48075), (459, 48036), (520, 47982), (542, 47943), (553, 47925), (627, 47778), (645, 47745), (670, 47709), (688, 47682), (777, 47559), (805, 47490), (810, 47472), (819, 47451), (876, 47367), (921, 47298), (942, 47259), (956, 47229), (981, 47172), (1009, 47112), (1023, 47082), (1040, 47049), (1060, 47007), (1157, 46851),

Gene: GTE2_44 Start: 38337, Stop: 36952, Start Num: 330

Candidate Starts for GTE2_44:

(Start: 277 @38430 has 49 MA's), (330, 38337), (Start: 343 @38310 has 1 MA's), (388, 38235), (394, 38220), (Start: 408 @38193 has 1 MA's), (453, 38112), (577, 37980), (596, 37926), (599, 37920), (602, 37914), (649, 37836), (740, 37722), (772, 37695), (794, 37632), (815, 37566), (830, 37545), (867, 37506), (875, 37488), (877, 37482), (939, 37371), (964, 37323), (971, 37305), (1013, 37209), (1023, 37188), (1036, 37158),

Gene: GTE5_60 Start: 49067, Stop: 47640, Start Num: 341

Candidate Starts for GTE5_60:

(6, 49982), (11, 49865), (14, 49847), (Start: 35 @49697 has 35 MA's), (123, 49472), (269, 49184), (Start: 306 @49130 has 28 MA's), (329, 49094), (341, 49067), (389, 48989), (394, 48977), (403, 48959), (441, 48914), (443, 48908), (459, 48869), (520, 48815), (542, 48776), (553, 48758), (627, 48611), (645, 48578), (666, 48548), (670, 48542), (688, 48515), (777, 48392), (805, 48323), (810, 48305), (876, 48200), (879, 48191), (888, 48173), (921, 48131), (942, 48092), (956, 48062), (981, 48005), (1009, 47945), (1023, 47915), (1040, 47882), (1060, 47840), (1157, 47684),

Gene: GTE7_50 Start: 46958, Stop: 45327, Start Num: 223

Candidate Starts for GTE7_50:

(Start: 223 @46958 has 3 MA's), (227, 46946), (261, 46895), (263, 46889), (Start: 303 @46832 has 4 MA's), (Start: 395 @46691 has 1 MA's), (416, 46649), (421, 46637), (443, 46601), (444, 46598), (455, 46571), (479, 46523), (483, 46508), (516, 46400), (580, 46295), (583, 46280), (635, 46157), (665, 46109), (679, 46085), (690, 46067), (714, 46019), (758, 45968), (776, 45932), (783, 45914), (857, 45797), (905, 45746), (937, 45704), (973, 45644), (990, 45602), (1016, 45551), (1025, 45527), (1109, 45365), (1125, 45344),

Gene: GTE8_60 Start: 49561, Stop: 47633, Start Num: 89

Candidate Starts for GTE8_60:

(8, 49903), (11, 49873), (16, 49798), (Start: 35 @49699 has 35 MA's), (Start: 89 @49561 has 2 MA's), (96, 49537), (198, 49288), (269, 49180), (339, 49066), (341, 49063), (394, 48973), (Start: 395 @48970 has 1 MA's), (441, 48910), (553, 48754), (562, 48745), (573, 48730), (627, 48607), (688, 48502), (700, 48478), (777, 48376), (796, 48322), (807, 48301), (876, 48187), (939, 48091), (942, 48085), (956, 48055), (975, 48016), (981, 47998), (1009, 47938), (1040, 47875), (1078, 47794), (1133, 47710),

Gene: GaeCeo_42 Start: 31326, Stop: 29935, Start Num: 319

Candidate Starts for GaeCeo_42:

(Start: 319 @31326 has 153 MA's), (405, 31182), (Start: 408 @31176 has 1 MA's), (443, 31113), (511, 31032), (547, 30972), (572, 30945), (577, 30942), (580, 30936), (622, 30846), (644, 30804), (781, 30633), (790, 30612), (797, 30597), (801, 30585), (820, 30534), (874, 30477), (878, 30465), (960, 30315), (967, 30303), (991, 30243), (1009, 30207), (1012, 30201), (1020, 30183), (1023, 30177),

(1024, 30171), (1055, 30117), (1066, 30084), (1077, 30063), (1099, 30024),

Gene: Gagieri_70 Start: 52937, Stop: 50901, Start Num: 36

Candidate Starts for Gagieri_70:

(3, 53405), (4, 53399), (Start: 36 @52937 has 6 MA's), (85, 52829), (198, 52544), (239, 52487), (269, 52436), (283, 52421), (335, 52331), (341, 52319), (356, 52292), (394, 52226), (444, 52154), (466, 52112), (512, 52085), (548, 52013), (583, 51956), (688, 51776), (700, 51752), (751, 51689), (777, 51653), (810, 51566), (888, 51434), (920, 51395), (921, 51392), (981, 51260), (1009, 51200), (1040, 51137), (1060, 51095), (1093, 51032),

Gene: GalacticEye_57 Start: 52570, Stop: 51158, Start Num: 375

Candidate Starts for GalacticEye_57:

(177, 52918), (233, 52789), (288, 52702), (Start: 290 @52699 has 3 MA's), (Start: 375 @52570 has 28 MA's), (Start: 395 @52525 has 1 MA's), (443, 52435), (444, 52432), (448, 52426), (455, 52405), (483, 52342), (516, 52234), (525, 52216), (580, 52129), (583, 52114), (601, 52072), (635, 51991), (665, 51943), (690, 51901), (698, 51883), (700, 51880), (714, 51853), (758, 51802), (776, 51766), (794, 51715), (857, 51631), (867, 51610), (982, 51454), (985, 51448), (990, 51436), (1055, 51310), (1109, 51196),

Gene: GalaxyEater_51 Start: 43702, Stop: 41588, Start Num: 94

Candidate Starts for GalaxyEater_51:

(Start: 94 @43702 has 4 MA's), (100, 43696), (164, 43546), (224, 43429), (253, 43381), (257, 43372), (263, 43363), (Start: 282 @43339 has 2 MA's), (310, 43282), (Start: 318 @43270 has 13 MA's), (347, 43216), (383, 43162), (399, 43123), (400, 43120), (444, 43030), (452, 43012), (456, 43000), (471, 42970), (476, 42958), (489, 42886), (506, 42820), (509, 42814), (533, 42766), (591, 42655), (612, 42616), (622, 42598), (711, 42436), (734, 42397), (785, 42304), (874, 42169), (916, 42115), (932, 42085), (958, 42025), (989, 41953), (1001, 41911), (1042, 41821), (1099, 41698), (1163, 41605),

Gene: Gallia_72 Start: 56704, Stop: 54734, Start Num: 74

Candidate Starts for Gallia_72:

(Start: 74 @56704 has 16 MA's), (121, 56566), (181, 56410), (Start: 275 @56266 has 1 MA's), (335, 56164), (394, 56059), (512, 55918), (562, 55831), (666, 55624), (679, 55603), (709, 55555), (777, 55459), (788, 55426), (811, 55369), (814, 55360), (942, 55171), (951, 55150), (1024, 54988), (1040, 54961), (1068, 54898), (1078, 54880),

Gene: Gandionco_136 Start: 71890, Stop: 73134, Start Num: 294

Candidate Starts for Gandionco_136:

(Start: 294 @71890 has 45 MA's), (312, 71929), (Start: 318 @71938 has 13 MA's), (388, 72064), (413, 72118), (578, 72331), (587, 72361), (596, 72382), (622, 72430), (639, 72463), (673, 72517), (677, 72523), (773, 72646), (781, 72667), (784, 72676), (805, 72739), (1009, 72865), (1012, 72871), (1047, 72940), (1068, 72991), (1096, 73042), (1107, 73060),

Gene: GantcherGoblin_74 Start: 45847, Stop: 47094, Start Num: 294

Candidate Starts for GantcherGoblin_74:

(Start: 294 @45847 has 45 MA's), (Start: 384 @46009 has 1 MA's), (388, 46021), (413, 46075), (455, 46153), (519, 46228), (587, 46318), (590, 46327), (639, 46420), (677, 46480), (722, 46555), (781, 46624), (1096, 46999), (1107, 47017),

Gene: GardenB_40 Start: 31225, Stop: 29840, Start Num: 319

Candidate Starts for GardenB_40:

(Start: 302 @31255 has 13 MA's), (Start: 319 @31225 has 153 MA's), (394, 31102), (405, 31081), (Start: 408 @31075 has 1 MA's), (410, 31072), (471, 30958), (547, 30871), (572, 30844), (577, 30841), (622, 30745), (644, 30703), (781, 30532), (797, 30496), (874, 30376), (883, 30352), (960, 30217),

(982, 30163), (1012, 30103), (1023, 30079), (1024, 30073), (1031, 30061), (1077, 29965), (1109, 29911),

Gene: Garey24_41 Start: 30782, Stop: 29394, Start Num: 319

Candidate Starts for Garey24_41:

(197, 31004), (Start: 319 @30782 has 153 MA's), (405, 30638), (Start: 408 @30632 has 1 MA's), (410, 30629), (471, 30515), (511, 30488), (547, 30428), (572, 30401), (577, 30398), (622, 30302), (644, 30260), (781, 30089), (790, 30068), (797, 30053), (801, 30041), (817, 29993), (874, 29933), (960, 29774), (982, 29720), (1023, 29636), (1024, 29630), (1031, 29618), (1066, 29543), (1077, 29522), (1109, 29468), (1112, 29465), (1128, 29441),

Gene: Gargoyle_41 Start: 31123, Stop: 29735, Start Num: 319

Candidate Starts for Gargoyle_41:

(39, 31774), (163, 31420), (197, 31345), (Start: 319 @31123 has 153 MA's), (405, 30979), (Start: 408 @30973 has 1 MA's), (410, 30970), (471, 30856), (511, 30829), (547, 30769), (572, 30742), (577, 30739), (622, 30643), (644, 30601), (781, 30430), (790, 30409), (797, 30394), (817, 30334), (874, 30274), (927, 30178), (960, 30115), (982, 30061), (1023, 29977), (1024, 29971), (1031, 29959), (1077, 29863), (1109, 29809), (1112, 29806), (1128, 29782),

Gene: Gelo_40 Start: 30809, Stop: 29421, Start Num: 319

Candidate Starts for Gelo_40:

(197, 31031), (Start: 319 @30809 has 153 MA's), (405, 30665), (Start: 408 @30659 has 1 MA's), (410, 30656), (471, 30542), (511, 30515), (547, 30455), (572, 30428), (577, 30425), (622, 30329), (644, 30287), (781, 30116), (790, 30095), (797, 30080), (801, 30068), (817, 30020), (874, 29960), (927, 29864), (960, 29801), (982, 29747), (1023, 29663), (1024, 29657), (1031, 29645), (1066, 29570), (1077, 29549), (1109, 29495), (1112, 29492), (1128, 29468),

Gene: Genamy16_63 Start: 39814, Stop: 41730, Start Num: 55

Candidate Starts for Genamy16_63:

(Start: 55 @39814 has 13 MA's), (Start: 58 @39817 has 23 MA's), (Start: 76 @39829 has 2 MA's), (Start: 89 @39877 has 2 MA's), (Start: 103 @39910 has 1 MA's), (151, 40051), (155, 40069), (172, 40096), (175, 40105), (219, 40177), (Start: 297 @40297 has 15 MA's), (331, 40360), (Start: 387 @40450 has 1 MA's), (401, 40477), (509, 40606), (519, 40630), (542, 40672), (548, 40684), (562, 40699), (577, 40720), (583, 40741), (590, 40762), (620, 40819), (627, 40837), (652, 40873), (679, 40915), (716, 40975), (788, 41071), (790, 41074), (915, 41251), (951, 41302), (992, 41392), (1009, 41428), (1012, 41434), (1037, 41488), (1059, 41527), (1112, 41629), (1123, 41644), (1137, 41665),

Gene: GermyBearimy_84 Start: 49100, Stop: 50329, Start Num: 294

Candidate Starts for GermyBearimy_84:

(Start: 294 @49100 has 45 MA's), (Start: 318 @49148 has 13 MA's), (388, 49274), (455, 49406), (519, 49481), (587, 49571), (594, 49586), (596, 49592), (622, 49640), (623, 49643), (660, 49703), (677, 49733), (773, 49856), (1013, 50084), (1036, 50135), (1140, 50315), (1145, 50324),

Gene: Gerri43_38 Start: 26376, Stop: 24544, Start Num: 75

Candidate Starts for Gerri43_38:

(Start: 75 @26376 has 19 MA's), (90, 26319), (174, 26118), (248, 25983), (329, 25848), (341, 25821), (438, 25764), (444, 25749), (467, 25695), (519, 25599), (522, 25593), (530, 25578), (557, 25533), (583, 25485), (590, 25464), (599, 25446), (624, 25395), (687, 25302), (693, 25290), (777, 25227), (808, 25155), (840, 25095), (875, 25074), (920, 25008), (933, 24990), (940, 24972), (942, 24969), (961, 24933), (1009, 24825), (1013, 24816), (1044, 24756), (1063, 24708),

Gene: Gershwin_40 Start: 30816, Stop: 29428, Start Num: 319

Candidate Starts for Gershwin_40:

(197, 31038), (Start: 319 @30816 has 153 MA's), (405, 30672), (Start: 408 @30666 has 1 MA's), (410, 30663), (471, 30549), (511, 30522), (547, 30462), (572, 30435), (577, 30432), (617, 30339), (622, 30336), (644, 30294), (781, 30123), (790, 30102), (797, 30087), (801, 30075), (817, 30027), (874, 29967), (927, 29871), (960, 29808), (982, 29754), (1023, 29670), (1024, 29664), (1031, 29652), (1066, 29577), (1077, 29556), (1109, 29502), (1112, 29499), (1128, 29475),

Gene: Ghobes_35 Start: 32092, Stop: 30689, Start Num: 303

Candidate Starts for Ghobes_35:

(180, 32332), (181, 32329), (228, 32218), (Start: 303 @32092 has 4 MA's), (339, 32017), (353, 31993), (355, 31990), (381, 31960), (383, 31957), (438, 31846), (511, 31771), (512, 31768), (540, 31717), (542, 31714), (575, 31687), (583, 31663), (594, 31636), (651, 31510), (654, 31507), (740, 31384), (741, 31381), (772, 31351), (773, 31348), (806, 31264), (827, 31219), (940, 31117), (963, 31072), (976, 31042), (977, 31039), (1020, 30946), (1024, 30934), (1075, 30820), (1100, 30778),

Gene: GiKK_57 Start: 39360, Stop: 37885, Start Num: 280

Candidate Starts for GiKK_57:

(Start: 280 @39360 has 11 MA's), (Start: 303 @39318 has 4 MA's), (330, 39270), (Start: 343 @39243 has 1 MA's), (379, 39189), (388, 39168), (391, 39159), (394, 39153), (443, 39069), (448, 39060), (454, 39042), (456, 39036), (577, 38913), (596, 38859), (599, 38853), (602, 38847), (628, 38802), (649, 38769), (797, 38556), (808, 38523), (825, 38484), (867, 38439), (875, 38421), (877, 38415), (904, 38370), (907, 38364), (919, 38343), (940, 38295), (942, 38292), (964, 38250), (966, 38247), (971, 38232), (1013, 38136), (1036, 38085), (1038, 38082), (1066, 38022), (1085, 37989), (1093, 37974), (1097, 37965), (1128, 37920), (1143, 37899),

Gene: Giantsbane_77 Start: 47101, Stop: 48288, Start Num: 318

Candidate Starts for Giantsbane_77:

(Start: 294 @47056 has 45 MA's), (Start: 297 @47062 has 15 MA's), (Start: 302 @47068 has 13 MA's), (Start: 318 @47101 has 13 MA's), (388, 47227), (455, 47359), (578, 47494), (587, 47524), (657, 47653), (677, 47686), (680, 47692), (700, 47728), (781, 47830), (1036, 48091), (1057, 48124), (1060, 48136), (1061, 48139), (1096, 48208),

Gene: Gibbin_62 Start: 41245, Stop: 43161, Start Num: 55

Candidate Starts for Gibbin_62:

(18, 41122), (21, 41131), (24, 41143), (33, 41176), (Start: 51 @41233 has 11 MA's), (Start: 55 @41245 has 13 MA's), (Start: 58 @41248 has 23 MA's), (Start: 76 @41260 has 2 MA's), (Start: 89 @41308 has 2 MA's), (Start: 103 @41341 has 1 MA's), (125, 41410), (155, 41500), (172, 41527), (175, 41536), (219, 41608), (269, 41695), (Start: 297 @41728 has 15 MA's), (331, 41791), (Start: 387 @41881 has 1 MA's), (509, 42037), (519, 42061), (542, 42103), (577, 42151), (583, 42172), (590, 42193), (620, 42250), (627, 42268), (652, 42304), (679, 42346), (716, 42406), (788, 42502), (790, 42505), (951, 42733), (992, 42823), (1009, 42859), (1012, 42865), (1037, 42919), (1059, 42958), (1112, 43060), (1123, 43075), (1137, 43096),

Gene: Gibbles_56 Start: 50443, Stop: 48953, Start Num: 313

Candidate Starts for Gibbles_56:

(Start: 313 @50443 has 5 MA's), (381, 50350), (385, 50341), (389, 50329), (Start: 395 @50314 has 1 MA's), (Start: 408 @50296 has 1 MA's), (444, 50239), (476, 50167), (477, 50164), (494, 50071), (507, 50038), (521, 50005), (523, 50002), (536, 49981), (580, 49912), (590, 49876), (628, 49789), (657, 49738), (665, 49726), (666, 49723), (685, 49693), (723, 49621), (731, 49612), (805, 49489), (807, 49483), (953, 49309), (978, 49264), (990, 49234), (1116, 48982),

Gene: Gibbous_48 Start: 37401, Stop: 35911, Start Num: 278

Candidate Starts for Gibbous_48:

(Start: 278 @37401 has 3 MA's), (Start: 303 @37359 has 4 MA's), (328, 37317), (330, 37311), (Start: 343 @37284 has 1 MA's), (379, 37230), (383, 37224), (394, 37194), (Start: 408 @37167 has 1 MA's), (453, 37086), (454, 37083), (456, 37077), (465, 37056), (532, 36990), (577, 36954), (584, 36930), (596, 36900), (599, 36894), (602, 36888), (639, 36825), (649, 36810), (661, 36795), (772, 36669), (799, 36591), (811, 36552), (815, 36540), (817, 36537), (857, 36501), (866, 36483), (867, 36480), (868, 36477), (875, 36462), (886, 36435), (894, 36423), (940, 36321), (964, 36276), (966, 36273), (981, 36231), (988, 36216), (1010, 36168), (1013, 36162), (1036, 36111), (1085, 36015), (1097, 35991), (1121, 35958), (1143, 35925), (1146, 35922),

Gene: Gibson_70 Start: 50318, Stop: 48432, Start Num: 61

Candidate Starts for Gibson_70:

(Start: 61 @50318 has 8 MA's), (73, 50303), (93, 50240), (97, 50231), (137, 50126), (152, 50087), (161, 50063), (199, 49988), (219, 49964), (312, 49805), (335, 49766), (339, 49757), (402, 49649), (462, 49541), (577, 49388), (595, 49337), (624, 49277), (687, 49190), (688, 49187), (788, 49082), (792, 49073), (796, 49061), (865, 48962), (951, 48845), (958, 48833), (971, 48806), (1010, 48716), (1018, 48701), (1044, 48647), (1068, 48590), (1137, 48482), (1149, 48464),

Gene: Gilda_40 Start: 25935, Stop: 27842, Start Num: 68

Candidate Starts for Gilda_40:

(Start: 68 @25935 has 36 MA's), (93, 25998), (106, 26019), (122, 26073), (199, 26250), (229, 26295), (335, 26469), (339, 26478), (394, 26568), (422, 26625), (543, 26811), (620, 26946), (624, 26958), (650, 26991), (777, 27120), (824, 27237), (888, 27312), (1009, 27546), (1010, 27549), (1037, 27609), (1080, 27699), (1097, 27729), (1126, 27771), (1163, 27822),

Gene: Gill_87 Start: 53651, Stop: 54871, Start Num: 295

Candidate Starts for Gill_87:

(Start: 295 @53651 has 213 MA's), (Start: 327 @53711 has 23 MA's), (328, 53714), (347, 53753), (359, 53777), (392, 53819), (413, 53861), (433, 53894), (452, 53933), (455, 53939), (509, 53990), (518, 54011), (578, 54074), (623, 54176), (639, 54206), (650, 54224), (671, 54257), (677, 54266), (717, 54332), (722, 54341), (725, 54344), (765, 54380), (773, 54389), (776, 54398), (781, 54410), (798, 54461), (799, 54464), (814, 54515), (819, 54524), (992, 54593), (1018, 54632), (1068, 54740), (1086, 54773), (1096, 54791), (1115, 54818),

Gene: GirlPower_74 Start: 49223, Stop: 50407, Start Num: 295

Candidate Starts for GirlPower_74:

(Start: 295 @49223 has 213 MA's), (Start: 318 @49268 has 13 MA's), (328, 49286), (333, 49298), (455, 49469), (587, 49643), (594, 49658), (677, 49805), (698, 49844), (701, 49850), (781, 49949), (795, 49991), (799, 50003), (807, 50027), (814, 50051), (817, 50057), (909, 50081), (978, 50087), (1068, 50267), (1086, 50300), (1089, 50306), (1105, 50333), (1107, 50336), (1115, 50345), (1117, 50348),

Gene: Gisselle_25 Start: 20615, Stop: 22009, Start Num: 295

Candidate Starts for Gisselle_25:

(Start: 295 @20615 has 213 MA's), (328, 20672), (Start: 387 @20777 has 1 MA's), (388, 20780), (429, 20864), (452, 20897), (511, 20951), (512, 20954), (580, 21044), (590, 21080), (601, 21101), (610, 21134), (620, 21155), (704, 21287), (719, 21314), (761, 21353), (777, 21380), (788, 21413), (794, 21428), (797, 21437), (817, 21482), (866, 21518), (942, 21599), (953, 21623), (963, 21641), (969, 21653), (992, 21713), (1003, 21737), (1009, 21743), (1010, 21746), (1019, 21764), (1020, 21767), (1031, 21791), (1034, 21800), (1072, 21887), (1113, 21938), (1140, 21977),

Gene: Giuseppe_53 Start: 39718, Stop: 41661, Start Num: 65

Candidate Starts for Giuseppe_53:

(Start: 65 @39718 has 24 MA's), (80, 39745), (104, 39817), (121, 39871), (140, 39931), (146, 39949), (151, 39958), (174, 40009), (193, 40051), (219, 40087), (269, 40174), (329, 40267), (335, 40282), (347, 40303), (414, 40405), (438, 40438), (450, 40462), (512, 40522), (562, 40609), (596, 40684), (652, 40774), (688, 40825), (690, 40828), (764, 40918), (777, 40936), (788, 40969), (810, 41023), (814, 41035), (824, 41053), (865, 41116), (939, 41200), (992, 41317), (1009, 41365), (1040, 41428), (1078, 41512),

Gene: Glamour_40 Start: 31091, Stop: 29679, Start Num: 327

Candidate Starts for Glamour_40:

(Start: 327 @31091 has 23 MA's), (339, 31061), (Start: 343 @31055 has 1 MA's), (364, 31022), (471, 30830), (511, 30803), (547, 30743), (572, 30716), (577, 30713), (590, 30671), (622, 30617), (644, 30575), (727, 30461), (781, 30404), (790, 30383), (797, 30368), (801, 30356), (805, 30344), (806, 30341), (811, 30323), (857, 30242), (874, 30206), (903, 30152), (925, 30110), (940, 30080), (953, 30056), (957, 30050), (977, 30008), (1009, 29939), (1020, 29915), (1023, 29909), (1024, 29903), (1031, 29891), (1077, 29795), (1082, 29786), (1093, 29768), (1099, 29756), (1131, 29711),

Gene: Glenn_29 Start: 22157, Stop: 23557, Start Num: 295

Candidate Starts for Glenn_29:

(Start: 295 @22157 has 213 MA's), (328, 22220), (Start: 387 @22325 has 1 MA's), (388, 22328), (429, 22412), (452, 22445), (509, 22496), (512, 22502), (575, 22583), (577, 22586), (580, 22592), (590, 22628), (599, 22646), (601, 22649), (610, 22682), (620, 22703), (627, 22721), (650, 22754), (704, 22835), (719, 22862), (754, 22892), (761, 22901), (777, 22928), (788, 22961), (794, 22976), (817, 23030), (860, 23051), (865, 23063), (904, 23075), (1012, 23297), (1017, 23306), (1019, 23312), (1034, 23348), (1063, 23408), (1072, 23435), (1140, 23525),

Gene: Glintora_88 Start: 55373, Stop: 56587, Start Num: 295

Candidate Starts for Glintora_88:

(Start: 295 @55373 has 213 MA's), (299, 55379), (Start: 327 @55433 has 23 MA's), (333, 55448), (347, 55475), (349, 55478), (359, 55499), (392, 55541), (413, 55583), (433, 55616), (452, 55655), (518, 55733), (519, 55736), (578, 55796), (623, 55898), (657, 55955), (673, 55982), (677, 55988), (682, 55997), (717, 56054), (720, 56060), (725, 56066), (760, 56093), (765, 56102), (776, 56120), (779, 56129), (781, 56132), (784, 56141), (807, 56210), (814, 56234), (865, 56264), (1009, 56333), (1018, 56351), (1096, 56510), (1115, 56537), (1138, 56570),

Gene: Gmala1_55 Start: 48612, Stop: 47071, Start Num: 307

Candidate Starts for Gmala1_55:

(307, 48612), (385, 48507), (Start: 395 @48480 has 1 MA's), (428, 48426), (443, 48408), (469, 48348), (474, 48339), (486, 48288), (492, 48264), (496, 48252), (499, 48246), (516, 48201), (523, 48186), (536, 48165), (538, 48162), (587, 48063), (599, 48036), (635, 47952), (648, 47928), (665, 47904), (685, 47871), (731, 47790), (774, 47742), (781, 47727), (812, 47634), (827, 47607), (856, 47604), (903, 47520), (921, 47484), (930, 47469), (951, 47424), (988, 47352), (990, 47346), (1060, 47205), (1116, 47106), (1119, 47103),

Gene: GoCrazy_77 Start: 46024, Stop: 47334, Start Num: 295

Candidate Starts for GoCrazy_77:

(Start: 295 @46024 has 213 MA's), (578, 46462), (587, 46492), (622, 46561), (645, 46606), (671, 46645), (677, 46654), (695, 46684), (722, 46729), (725, 46732), (776, 46786), (778, 46792), (781, 46798), (805, 46870), (814, 46900), (1009, 46996), (1079, 47143), (1089, 47161), (1138, 47233), (1162, 47269),

Gene: GoblinVoyage_54 Start: 37351, Stop: 38529, Start Num: 297

Candidate Starts for GoblinVoyage_54:

(Start: 297 @37351 has 15 MA's), (312, 37384), (Start: 318 @37393 has 13 MA's), (347, 37450), (399, 37492), (426, 37543), (519, 37672), (587, 37762), (590, 37771), (614, 37819), (622, 37831), (677, 37924), (690, 37945), (701, 37969), (713, 37984), (765, 38038), (773, 38047), (781, 38068), (782, 38071), (784, 38077), (795, 38110), (978, 38212), (1013, 38275), (1018, 38284), (1047, 38341), (1057, 38359), (1086, 38425), (1098, 38446), (1141, 38506),

Gene: GodonK_184 Start: 93693, Stop: 91774, Start Num: 75

Candidate Starts for GodonK_184:

(Start: 75 @93693 has 19 MA's), (87, 93651), (127, 93537), (155, 93462), (195, 93393), (225, 93324), (444, 93051), (452, 93033), (461, 93009), (497, 92970), (587, 92790), (627, 92706), (643, 92682), (687, 92622), (693, 92610), (709, 92583), (788, 92514), (790, 92511), (896, 92295), (903, 92277), (905, 92271), (939, 92205), (958, 92166), (965, 92154), (976, 92127), (1013, 92046), (1027, 92013), (1040, 91992), (1058, 91959), (1078, 91908), (1089, 91890),

Gene: GoingMerry_42 Start: 31128, Stop: 29740, Start Num: 319

Candidate Starts for GoingMerry_42:

(163, 31425), (197, 31350), (Start: 319 @31128 has 153 MA's), (405, 30984), (Start: 408 @30978 has 1 MA's), (410, 30975), (471, 30861), (511, 30834), (547, 30774), (572, 30747), (577, 30744), (622, 30648), (644, 30606), (781, 30435), (790, 30414), (801, 30387), (817, 30339), (874, 30279), (960, 30120), (982, 30066), (1023, 29982), (1024, 29976), (1031, 29964), (1077, 29868), (1109, 29814), (1112, 29811), (1128, 29787),

Gene: GoldHunter_54 Start: 38843, Stop: 37365, Start Num: 277

Candidate Starts for GoldHunter_54:

(Start: 277 @38843 has 49 MA's), (328, 38756), (330, 38750), (379, 38669), (388, 38648), (453, 38525), (454, 38522), (596, 38339), (599, 38333), (602, 38327), (649, 38249), (740, 38135), (772, 38108), (781, 38084), (801, 38024), (815, 37979), (830, 37958), (867, 37919), (875, 37901), (939, 37784), (964, 37736), (966, 37733), (971, 37718), (1013, 37622), (1023, 37601), (1036, 37571),

Gene: Golden_39 Start: 30647, Stop: 29256, Start Num: 323

Candidate Starts for Golden_39:

(Start: 323 @30647 has 8 MA's), (Start: 327 @30644 has 23 MA's), (339, 30614), (405, 30506), (410, 30497), (441, 30443), (508, 30362), (547, 30296), (577, 30266), (592, 30221), (622, 30170), (777, 29966), (781, 29957), (797, 29918), (801, 29906), (805, 29894), (806, 29891), (820, 29855), (826, 29846), (857, 29831), (874, 29795), (878, 29783), (883, 29771), (927, 29696), (960, 29636), (1009, 29528), (1013, 29519), (1020, 29504), (1023, 29498), (1024, 29492), (1152, 29270),

Gene: GoldenEssence_87 Start: 74530, Stop: 76368, Start Num: 71

Candidate Starts for GoldenEssence_87:

(Start: 71 @74530 has 13 MA's), (127, 74689), (169, 74785), (222, 74845), (239, 74875), (Start: 297 @74965 has 15 MA's), (310, 74995), (337, 75046), (435, 75106), (648, 75502), (665, 75523), (693, 75568), (730, 75625), (777, 75631), (788, 75664), (793, 75676), (797, 75688), (805, 75703), (814, 75733), (839, 75772), (888, 75829), (903, 75835), (920, 75868), (956, 75937), (993, 76021), (1054, 76138), (1152, 76312), (1169, 76354),

Gene: GoneGirl_41 Start: 31218, Stop: 29833, Start Num: 319

Candidate Starts for GoneGirl_41:

(Start: 302 @31248 has 13 MA's), (Start: 319 @31218 has 153 MA's), (394, 31095), (405, 31074), (Start: 408 @31068 has 1 MA's), (410, 31065), (471, 30951), (547, 30864), (572, 30837), (577, 30834), (622, 30738), (644, 30696), (781, 30525), (797, 30489), (874, 30369), (883, 30345), (960, 30210), (982, 30156), (1012, 30096), (1023, 30072), (1024, 30066), (1031, 30054), (1077, 29958), (1109, 29904),

Gene: Goodman_34 Start: 23371, Stop: 24798, Start Num: 298

Candidate Starts for Goodman_34:

(Start: 298 @23371 has 19 MA's), (414, 23587), (464, 23689), (511, 23728), (547, 23791), (583, 23836), (590, 23857), (630, 23956), (740, 24124), (777, 24172), (785, 24193), (794, 24220), (807, 24247), (817, 24277), (821, 24283), (903, 24319), (944, 24397), (981, 24481), (991, 24499), (992, 24502), (1034, 24589), (1043, 24601), (1061, 24640), (1072, 24676), (1075, 24682), (1117, 24733), (1134, 24757),

Gene: GordDuk1_59 Start: 49176, Stop: 47635, Start Num: 307

Candidate Starts for GordDuk1_59:

(307, 49176), (385, 49071), (Start: 395 @49044 has 1 MA's), (428, 48990), (443, 48972), (469, 48912), (474, 48903), (486, 48852), (492, 48828), (496, 48816), (499, 48810), (516, 48765), (523, 48750), (536, 48729), (538, 48726), (587, 48627), (599, 48600), (635, 48516), (648, 48492), (665, 48468), (685, 48435), (690, 48426), (714, 48378), (731, 48354), (774, 48306), (812, 48198), (827, 48171), (903, 48084), (921, 48048), (930, 48033), (951, 47988), (988, 47916), (990, 47910), (1116, 47670), (1119, 47667),

Gene: GordTnk2_60 Start: 49330, Stop: 47789, Start Num: 307

Candidate Starts for GordTnk2_60:

(307, 49330), (385, 49225), (Start: 395 @49198 has 1 MA's), (428, 49144), (443, 49126), (469, 49066), (474, 49057), (486, 49006), (492, 48982), (496, 48970), (499, 48964), (516, 48919), (523, 48904), (536, 48883), (538, 48880), (587, 48781), (599, 48754), (635, 48670), (648, 48646), (665, 48622), (685, 48589), (731, 48508), (774, 48460), (812, 48352), (827, 48325), (856, 48322), (903, 48238), (921, 48202), (930, 48187), (951, 48142), (988, 48070), (990, 48064), (1060, 47923), (1116, 47824), (1119, 47821),

Gene: Gordon_69 Start: 48372, Stop: 49604, Start Num: 294

Candidate Starts for Gordon_69:

(Start: 294 @48372 has 45 MA's), (299, 48381), (312, 48411), (Start: 318 @48420 has 13 MA's), (358, 48498), (388, 48546), (Start: 395 @48564 has 1 MA's), (455, 48678), (518, 48750), (578, 48813), (587, 48843), (622, 48912), (677, 49005), (680, 49011), (700, 49047), (781, 49149), (992, 49326), (1013, 49356), (1036, 49407), (1047, 49422), (1057, 49440), (1060, 49452), (1061, 49455), (1096, 49524), (1107, 49542),

Gene: Gorgeous_70 Start: 47020, Stop: 45626, Start Num: 317

Candidate Starts for Gorgeous_70:

(Start: 317 @47020 has 13 MA's), (353, 46951), (399, 46876), (409, 46858), (425, 46828), (467, 46747), (582, 46597), (656, 46453), (679, 46414), (773, 46300), (809, 46249), (831, 46228), (850, 46198), (860, 46183), (865, 46171), (914, 46090), (936, 46042), (950, 46015), (962, 45994), (997, 45910), (1032, 45844), (1139, 45655), (1146, 45643),

Gene: Gorko_58 Start: 51458, Stop: 49926, Start Num: 306

Candidate Starts for Gorko_58:

(177, 51713), (201, 51662), (220, 51611), (248, 51557), (265, 51527), (Start: 290 @51494 has 3 MA's), (Start: 295 @51485 has 213 MA's), (Start: 306 @51458 has 28 MA's), (Start: 395 @51290 has 1 MA's), (416, 51248), (443, 51200), (449, 51188), (453, 51176), (455, 51170), (464, 51149), (479, 51122), (525, 50981), (580, 50894), (583, 50879), (587, 50867), (601, 50837), (622, 50786), (634, 50759), (665, 50708), (698, 50648), (700, 50645), (714, 50618), (747, 50576), (776, 50531), (857, 50396), (865, 50381), (883, 50360), (951, 50279), (953, 50276), (982, 50219), (985, 50213), (988, 50207), (990, 50201), (1025, 50126), (1048, 50087), (1055, 50075), (1057, 50072), (1099, 49979), (1109, 49964), (1125, 49943),

Gene: GourdThymes_59 Start: 52332, Stop: 50800, Start Num: 306

Candidate Starts for GourdThymes_59:

(177, 52587), (201, 52536), (220, 52485), (248, 52431), (265, 52401), (Start: 290 @52368 has 3 MA's), (Start: 295 @52359 has 213 MA's), (Start: 306 @52332 has 28 MA's), (Start: 395 @52164 has 1 MA's), (416, 52122), (443, 52074), (449, 52062), (453, 52050), (455, 52044), (464, 52023), (479, 51996), (525, 51855), (580, 51768), (583, 51753), (587, 51741), (601, 51711), (622, 51660), (634, 51633), (665, 51582), (679, 51558), (690, 51540), (698, 51522), (700, 51519), (714, 51492), (747, 51450), (776, 51405), (857, 51270), (865, 51255), (883, 51234), (937, 51177), (951, 51153), (953, 51150), (982, 51093), (985, 51087), (988, 51081), (990, 51075), (1016, 51024), (1025, 51000), (1048, 50961), (1055, 50949), (1057, 50946), (1099, 50853), (1109, 50838), (1125, 50817),

Gene: Gravy_86 Start: 53314, Stop: 54534, Start Num: 295

Candidate Starts for Gravy_86:

(Start: 295 @53314 has 213 MA's), (Start: 327 @53374 has 23 MA's), (328, 53377), (347, 53416), (359, 53440), (392, 53482), (413, 53524), (433, 53557), (452, 53596), (455, 53602), (509, 53653), (518, 53674), (578, 53737), (623, 53839), (639, 53869), (650, 53887), (671, 53920), (677, 53929), (717, 53995), (722, 54004), (725, 54007), (765, 54043), (773, 54052), (776, 54061), (781, 54073), (798, 54124), (799, 54127), (814, 54178), (819, 54187), (992, 54256), (1018, 54295), (1068, 54403), (1086, 54436), (1096, 54454), (1115, 54481),

Gene: Graynor_30 Start: 22151, Stop: 23545, Start Num: 295

Candidate Starts for Graynor_30:

(Start: 295 @22151 has 213 MA's), (328, 22208), (Start: 387 @22313 has 1 MA's), (429, 22400), (511, 22487), (512, 22490), (580, 22580), (590, 22616), (595, 22625), (599, 22634), (620, 22691), (627, 22709), (650, 22742), (704, 22823), (719, 22850), (777, 22916), (788, 22949), (794, 22964), (797, 22973), (904, 23063), (940, 23132), (953, 23159), (963, 23177), (969, 23189), (1009, 23279), (1012, 23285), (1017, 23294), (1019, 23300), (1034, 23336), (1072, 23423), (1113, 23474), (1117, 23480), (1140, 23513), (1156, 23537),

Gene: GreenHearts_29 Start: 22236, Stop: 23627, Start Num: 295

Candidate Starts for GreenHearts_29:

(Start: 295 @22236 has 213 MA's), (Start: 343 @22323 has 1 MA's), (Start: 387 @22395 has 1 MA's), (388, 22398), (419, 22464), (429, 22482), (433, 22488), (452, 22515), (512, 22572), (540, 22623), (580, 22662), (590, 22698), (599, 22716), (610, 22752), (620, 22773), (627, 22791), (650, 22824), (681, 22863), (704, 22905), (719, 22932), (742, 22956), (775, 22992), (777, 22998), (788, 23031), (794, 23046), (797, 23055), (817, 23100), (865, 23133), (866, 23136), (944, 23220), (953, 23241), (961, 23253), (963, 23259), (969, 23271), (1009, 23361), (1010, 23364), (1012, 23367), (1019, 23382), (1020, 23385), (1031, 23409), (1034, 23418), (1072, 23505), (1113, 23556), (1140, 23595), (1156, 23619),

Gene: Greenlvy_40 Start: 29681, Stop: 28254, Start Num: 319

Candidate Starts for Greenlvy_40:

(178, 29951), (187, 29927), (202, 29900), (221, 29852), (240, 29813), (Start: 319 @29681 has 153 MA's), (336, 29651), (339, 29645), (Start: 408 @29531 has 1 MA's), (410, 29528), (411, 29525), (572, 29291), (577, 29288), (727, 29033), (778, 28982), (781, 28976), (801, 28928), (811, 28895), (874, 28781), (877, 28772), (903, 28727), (905, 28721), (920, 28694), (960, 28622), (991, 28550), (1009, 28514), (1013, 28505), (1020, 28490), (1023, 28484), (1031, 28466), (1055, 28424), (1082, 28361), (1128, 28289),

Gene: Greenbelt_68 Start: 46451, Stop: 44553, Start Num: 53

Candidate Starts for Greenbelt_68:

(39, 46496), (Start: 53 @46451 has 1 MA's), (Start: 55 @46445 has 13 MA's), (Start: 67 @46433 has 1 MA's), (97, 46355), (122, 46289), (127, 46271), (137, 46250), (153, 46205), (161, 46187), (175, 46157), (199, 46112), (219, 46088), (299, 45962), (337, 45887), (339, 45884), (358, 45851), (385,

45818), (402, 45779), (464, 45668), (509, 45629), (548, 45554), (624, 45407), (650, 45374), (688, 45317), (788, 45212), (796, 45191), (904, 45050), (958, 44960), (973, 44927), (1018, 44828), (1037, 44783), (1044, 44774), (1116, 44639), (1163, 44573), (1164, 44570),

Gene: Greenhouse_29 Start: 22160, Stop: 23551, Start Num: 295

Candidate Starts for Greenhouse_29:

(233, 22058), (256, 22100), (Start: 275 @22127 has 1 MA's), (Start: 295 @22160 has 213 MA's), (Start: 343 @22247 has 1 MA's), (Start: 387 @22319 has 1 MA's), (388, 22322), (419, 22388), (429, 22406), (433, 22412), (452, 22439), (512, 22496), (540, 22547), (543, 22553), (547, 22556), (580, 22586), (590, 22622), (599, 22640), (610, 22676), (620, 22697), (627, 22715), (681, 22787), (704, 22829), (719, 22856), (742, 22880), (775, 22916), (777, 22922), (788, 22955), (794, 22970), (797, 22979), (865, 23057), (866, 23060), (944, 23144), (953, 23165), (961, 23177), (963, 23183), (969, 23195), (1009, 23285), (1019, 23306), (1020, 23309), (1031, 23333), (1034, 23342), (1072, 23429), (1113, 23480), (1140, 23519), (1156, 23543),

Gene: Gretellyn_60 Start: 41292, Stop: 43208, Start Num: 55

Candidate Starts for Gretellyn_60:

(Start: 55 @41292 has 13 MA's), (Start: 58 @41295 has 23 MA's), (Start: 76 @41307 has 2 MA's), (Start: 89 @41355 has 2 MA's), (Start: 103 @41388 has 1 MA's), (125, 41457), (155, 41547), (172, 41574), (175, 41583), (219, 41655), (269, 41742), (Start: 297 @41775 has 15 MA's), (331, 41838), (Start: 387 @41928 has 1 MA's), (401, 41955), (509, 42084), (519, 42108), (542, 42150), (577, 42198), (583, 42219), (590, 42240), (620, 42297), (652, 42351), (679, 42393), (716, 42453), (788, 42549), (790, 42552), (915, 42729), (951, 42780), (992, 42870), (1009, 42906), (1012, 42912), (1037, 42966), (1059, 43005), (1112, 43107), (1123, 43122), (1137, 43143),

Gene: Greys_41 Start: 31116, Stop: 29728, Start Num: 319

Candidate Starts for Greys_41:

(39, 31767), (163, 31413), (197, 31338), (Start: 319 @31116 has 153 MA's), (405, 30972), (Start: 408 @30966 has 1 MA's), (410, 30963), (471, 30849), (511, 30822), (547, 30762), (572, 30735), (577, 30732), (622, 30636), (644, 30594), (781, 30423), (790, 30402), (801, 30375), (817, 30327), (874, 30267), (960, 30108), (982, 30054), (1023, 29970), (1024, 29964), (1031, 29952), (1077, 29856), (1109, 29802), (1112, 29799), (1128, 29775),

Gene: GrootJr_74 Start: 56101, Stop: 54035, Start Num: 35

Candidate Starts for GrootJr_74:

(8, 56305), (9, 56293), (11, 56275), (Start: 35 @56101 has 35 MA's), (Start: 89 @55963 has 2 MA's), (96, 55939), (175, 55735), (198, 55690), (269, 55582), (339, 55468), (341, 55465), (394, 55375), (Start: 395 @55372 has 1 MA's), (441, 55312), (542, 55174), (553, 55156), (573, 55132), (627, 55009), (688, 54904), (777, 54778), (796, 54724), (865, 54598), (876, 54589), (885, 54565), (939, 54493), (942, 54487), (956, 54457), (981, 54400), (1009, 54340), (1040, 54277), (1078, 54196),

Gene: Gubbabump_40 Start: 30796, Stop: 29408, Start Num: 319

Candidate Starts for Gubbabump_40:

(39, 31447), (163, 31093), (197, 31018), (Start: 319 @30796 has 153 MA's), (405, 30652), (Start: 408 @30646 has 1 MA's), (410, 30643), (471, 30529), (511, 30502), (547, 30442), (572, 30415), (577, 30412), (622, 30316), (644, 30274), (781, 30103), (790, 30082), (797, 30067), (817, 30007), (874, 29947), (927, 29851), (960, 29788), (982, 29734), (1023, 29650), (1024, 29644), (1031, 29632), (1077, 29536), (1109, 29482), (1112, 29479), (1128, 29455),

Gene: Guetzie_40 Start: 30629, Stop: 29241, Start Num: 327

Candidate Starts for Guetzie_40:

(Start: 323 @30632 has 8 MA's), (Start: 327 @30629 has 23 MA's), (339, 30599), (405, 30491), (410, 30482), (441, 30428), (508, 30347), (547, 30281), (577, 30251), (592, 30206), (622, 30155), (777,

29951), (781, 29942), (797, 29903), (801, 29891), (805, 29879), (806, 29876), (820, 29840), (826, 29831), (857, 29816), (874, 29780), (878, 29768), (883, 29756), (927, 29681), (960, 29621), (1009, 29513), (1013, 29504), (1020, 29489), (1023, 29483), (1024, 29477), (1152, 29255),

Gene: Guillaume_57 Start: 52620, Stop: 51208, Start Num: 375

Candidate Starts for Guillaume_57:

(177, 52968), (233, 52839), (Start: 290 @52749 has 3 MA's), (Start: 375 @52620 has 28 MA's), (Start: 395 @52575 has 1 MA's), (443, 52485), (444, 52482), (448, 52476), (455, 52455), (483, 52392), (516, 52284), (525, 52266), (580, 52179), (583, 52164), (601, 52122), (635, 52041), (665, 51993), (690, 51951), (698, 51933), (700, 51930), (714, 51903), (758, 51852), (776, 51816), (794, 51765), (857, 51681), (867, 51660), (982, 51504), (985, 51498), (990, 51486), (1055, 51360), (1109, 51246),

Gene: Gumball_52 Start: 39923, Stop: 41866, Start Num: 65

Candidate Starts for Gumball_52:

(40, 39860), (Start: 65 @39923 has 24 MA's), (80, 39950), (104, 40022), (121, 40076), (140, 40136), (151, 40163), (174, 40214), (193, 40256), (219, 40292), (269, 40379), (329, 40472), (335, 40487), (347, 40508), (414, 40610), (438, 40643), (450, 40667), (512, 40727), (562, 40814), (596, 40889), (652, 40979), (688, 41030), (690, 41033), (764, 41123), (777, 41141), (788, 41174), (814, 41240), (824, 41258), (865, 41321), (939, 41405), (992, 41522), (1009, 41570), (1040, 41633), (1078, 41717),

Gene: GurgleFerb_47 Start: 40997, Stop: 38748, Start Num: 94

Candidate Starts for GurgleFerb_47:

(Start: 94 @40997 has 4 MA's), (112, 40964), (132, 40880), (211, 40691), (215, 40679), (264, 40589), (285, 40562), (Start: 297 @40541 has 15 MA's), (307, 40514), (310, 40511), (Start: 318 @40499 has 13 MA's), (337, 40460), (413, 40322), (444, 40259), (451, 40244), (456, 40229), (464, 40211), (471, 40199), (476, 40187), (482, 40166), (488, 40118), (489, 40115), (493, 40091), (506, 40049), (509, 40043), (559, 39953), (577, 39929), (622, 39806), (650, 39752), (713, 39641), (728, 39620), (734, 39605), (753, 39545), (784, 39470), (785, 39467), (889, 39302), (958, 39182), (1036, 38984), (1042, 38978), (1068, 38918), (1099, 38855), (1121, 38825), (1137, 38801), (1141, 38795),

Gene: Gusicorn_87 Start: 54312, Stop: 55526, Start Num: 295

Candidate Starts for Gusicorn_87:

(Start: 295 @54312 has 213 MA's), (299, 54318), (Start: 327 @54372 has 23 MA's), (328, 54375), (333, 54387), (358, 54435), (359, 54438), (392, 54480), (413, 54522), (433, 54555), (452, 54594), (518, 54672), (519, 54675), (578, 54735), (669, 54915), (671, 54918), (673, 54921), (677, 54927), (698, 54966), (717, 54993), (725, 55005), (760, 55032), (765, 55041), (776, 55059), (779, 55068), (781, 55071), (784, 55080), (799, 55125), (807, 55149), (814, 55173), (1009, 55272), (1012, 55278), (1018, 55290), (1036, 55332), (1068, 55398), (1079, 55419), (1096, 55449), (1138, 55509),

Gene: Hager_41 Start: 25422, Stop: 27329, Start Num: 68

Candidate Starts for Hager_41:

(17, 25248), (Start: 68 @25422 has 36 MA's), (93, 25485), (106, 25506), (122, 25560), (191, 25722), (199, 25737), (229, 25782), (335, 25956), (339, 25965), (394, 26055), (Start: 395 @26058 has 1 MA's), (415, 26097), (422, 26112), (434, 26130), (543, 26298), (596, 26391), (603, 26406), (620, 26433), (624, 26445), (650, 26478), (777, 26607), (824, 26724), (993, 26997), (1010, 27036), (1037, 27096), (1080, 27186), (1097, 27216), (1126, 27258), (1163, 27309),

Gene: Hail2Pitt_56 Start: 53096, Stop: 51684, Start Num: 375

Candidate Starts for Hail2Pitt_56:

(177, 53444), (233, 53315), (288, 53228), (Start: 290 @53225 has 3 MA's), (Start: 375 @53096 has 28 MA's), (Start: 395 @53051 has 1 MA's), (443, 52961), (444, 52958), (448, 52952), (455, 52931), (483, 52868), (516, 52760), (525, 52742), (580, 52655), (583, 52640), (601, 52598), (635, 52517), (665, 52469), (690, 52427), (698, 52409), (700, 52406), (714, 52379), (758, 52328), (776, 52292), (794,

52241), (857, 52157), (867, 52136), (982, 51980), (985, 51974), (990, 51962), (1055, 51836), (1109, 51722),

Gene: HairyMan_37 Start: 30138, Stop: 28738, Start Num: 322

Candidate Starts for HairyMan_37:

(Start: 298 @30183 has 19 MA's), (Start: 319 @30141 has 153 MA's), (Start: 322 @30138 has 4 MA's), (Start: 327 @30132 has 23 MA's), (405, 29994), (Start: 408 @29988 has 1 MA's), (410, 29985), (442, 29928), (511, 29844), (577, 29754), (622, 29658), (639, 29625), (644, 29616), (712, 29523), (781, 29445), (790, 29424), (801, 29397), (874, 29286), (925, 29193), (929, 29187), (977, 29088), (1005, 29025), (1009, 29019), (1020, 28995), (1023, 28989), (1024, 28983), (1031, 28971), (1077, 28875), (1109, 28821),

Gene: Hamlet_40 Start: 31266, Stop: 29875, Start Num: 319

Candidate Starts for Hamlet_40:

(Start: 242 @31368 has 2 MA's), (Start: 243 @31365 has 1 MA's), (245, 31362), (Start: 319 @31266 has 153 MA's), (405, 31119), (Start: 408 @31113 has 1 MA's), (410, 31110), (471, 30996), (511, 30969), (547, 30909), (572, 30882), (577, 30879), (622, 30783), (644, 30741), (781, 30570), (790, 30549), (801, 30522), (874, 30414), (927, 30318), (982, 30201), (991, 30183), (1023, 30117), (1024, 30111), (1031, 30099), (1077, 30003), (1109, 29949), (1112, 29946), (1128, 29922), (1151, 29892),

Gene: HanSolo_40 Start: 30803, Stop: 29415, Start Num: 319

Candidate Starts for HanSolo_40:

(39, 31454), (163, 31100), (197, 31025), (Start: 319 @30803 has 153 MA's), (405, 30659), (Start: 408 @30653 has 1 MA's), (410, 30650), (471, 30536), (511, 30509), (547, 30449), (572, 30422), (577, 30419), (622, 30323), (644, 30281), (781, 30110), (797, 30074), (817, 30014), (874, 29954), (927, 29858), (960, 29795), (982, 29741), (1023, 29657), (1024, 29651), (1031, 29639), (1077, 29543), (1109, 29489), (1112, 29486), (1128, 29462),

Gene: HankSprout_41 Start: 30683, Stop: 29295, Start Num: 319

Candidate Starts for HankSprout_41:

(197, 30905), (Start: 319 @30683 has 153 MA's), (405, 30539), (Start: 408 @30533 has 1 MA's), (410, 30530), (471, 30416), (511, 30389), (547, 30329), (572, 30302), (577, 30299), (622, 30203), (644, 30161), (724, 30050), (781, 29990), (790, 29969), (797, 29954), (817, 29894), (874, 29834), (927, 29738), (960, 29675), (982, 29621), (1023, 29537), (1024, 29531), (1031, 29519), (1077, 29423), (1109, 29369), (1112, 29366), (1128, 29342),

Gene: Hankly_80 Start: 46402, Stop: 47712, Start Num: 295

Candidate Starts for Hankly_80:

(Start: 295 @46402 has 213 MA's), (347, 46504), (578, 46840), (587, 46870), (622, 46939), (645, 46984), (671, 47023), (677, 47032), (695, 47062), (722, 47107), (725, 47110), (776, 47164), (778, 47170), (779, 47173), (781, 47176), (796, 47221), (805, 47248), (814, 47278), (1009, 47374), (1089, 47539), (1138, 47611), (1162, 47647),

Gene: Harambe_57 Start: 52887, Stop: 51475, Start Num: 375

Candidate Starts for Harambe_57:

(177, 53235), (233, 53106), (288, 53019), (Start: 290 @53016 has 3 MA's), (Start: 375 @52887 has 28 MA's), (Start: 395 @52842 has 1 MA's), (443, 52752), (444, 52749), (448, 52743), (455, 52722), (483, 52659), (516, 52551), (525, 52533), (580, 52446), (583, 52431), (601, 52389), (635, 52308), (665, 52260), (690, 52218), (698, 52200), (700, 52197), (714, 52170), (758, 52119), (776, 52083), (794, 52032), (857, 51948), (867, 51927), (982, 51771), (985, 51765), (990, 51753), (1055, 51627), (1109, 51513),

Gene: Hasitha_40 Start: 29084, Stop: 27657, Start Num: 319

Candidate Starts for Hasitha_40:

(Start: 319 @29084 has 153 MA's), (336, 29054), (339, 29048), (Start: 408 @28934 has 1 MA's), (410, 28931), (572, 28694), (577, 28691), (727, 28436), (778, 28385), (781, 28379), (801, 28331), (811, 28298), (817, 28283), (863, 28211), (874, 28184), (877, 28175), (903, 28130), (905, 28124), (920, 28097), (960, 28025), (991, 27953), (1009, 27917), (1013, 27908), (1020, 27893), (1023, 27887), (1031, 27869), (1055, 27827), (1082, 27764), (1123, 27701), (1128, 27692),

Gene: Haunter_40 Start: 25327, Stop: 27234, Start Num: 68

Candidate Starts for Haunter_40:

(Start: 68 @25327 has 36 MA's), (93, 25390), (106, 25411), (122, 25465), (138, 25507), (199, 25642), (229, 25687), (335, 25861), (339, 25870), (394, 25960), (422, 26017), (543, 26203), (620, 26338), (624, 26350), (650, 26383), (679, 26428), (777, 26512), (824, 26629), (993, 26902), (1009, 26938), (1010, 26941), (1037, 27001), (1080, 27091), (1097, 27121), (1126, 27163), (1163, 27214),

Gene: HavenFinLeoSun_42 Start: 31494, Stop: 30088, Start Num: 316

Candidate Starts for HavenFinLeoSun_42:

(Start: 316 @31494 has 5 MA's), (405, 31347), (Start: 408 @31341 has 1 MA's), (471, 31224), (511, 31197), (547, 31137), (572, 31110), (577, 31107), (578, 31104), (622, 31011), (644, 30969), (777, 30807), (781, 30798), (790, 30777), (794, 30771), (857, 30678), (874, 30642), (883, 30618), (929, 30543), (982, 30429), (1012, 30369), (1023, 30345), (1024, 30339), (1031, 30327), (1093, 30204), (1109, 30177), (1128, 30150),

Gene: Hawkeye_56 Start: 39560, Stop: 41506, Start Num: 59

Candidate Starts for Hawkeye_56:

(Start: 59 @39560 has 1 MA's), (91, 39638), (118, 39707), (121, 39716), (129, 39746), (140, 39776), (151, 39803), (154, 39815), (193, 39893), (199, 39905), (269, 40016), (Start: 297 @40049 has 15 MA's), (335, 40124), (386, 40202), (403, 40232), (421, 40268), (453, 40322), (512, 40373), (580, 40487), (626, 40595), (687, 40673), (688, 40676), (700, 40700), (709, 40712), (764, 40769), (773, 40775), (777, 40787), (785, 40808), (788, 40820), (805, 40856), (814, 40886), (824, 40904), (865, 40967), (939, 41051), (956, 41087), (977, 41132), (992, 41168), (1009, 41216), (1012, 41222), (1040, 41279), (1159, 41483), (1164, 41489), (1165, 41492),

Gene: HayZem_62 Start: 52710, Stop: 51079, Start Num: 223

Candidate Starts for HayZem_62:

(Start: 223 @52710 has 3 MA's), (227, 52698), (261, 52647), (263, 52641), (Start: 303 @52584 has 4 MA's), (Start: 395 @52443 has 1 MA's), (416, 52401), (421, 52389), (443, 52353), (444, 52350), (455, 52323), (472, 52287), (479, 52275), (483, 52260), (516, 52152), (580, 52047), (583, 52032), (635, 51909), (665, 51861), (679, 51837), (690, 51819), (714, 51771), (758, 51720), (776, 51684), (783, 51666), (857, 51549), (905, 51498), (937, 51456), (973, 51396), (990, 51354), (1016, 51303), (1025, 51279), (1109, 51117), (1125, 51096),

Gene: HazuAndZazu_78 Start: 49504, Stop: 50688, Start Num: 295

Candidate Starts for HazuAndZazu_78:

(Start: 295 @49504 has 213 MA's), (Start: 318 @49549 has 13 MA's), (333, 49579), (455, 49750), (587, 49924), (677, 50086), (698, 50125), (701, 50131), (720, 50158), (781, 50230), (799, 50284), (807, 50308), (814, 50332), (817, 50338), (909, 50362), (978, 50368), (1036, 50482), (1086, 50581), (1089, 50587), (1107, 50617), (1115, 50626), (1147, 50671),

Gene: Heisenberger_78 Start: 46034, Stop: 47344, Start Num: 295

Candidate Starts for Heisenberger_78:

(Start: 295 @46034 has 213 MA's), (455, 46337), (578, 46472), (587, 46502), (622, 46571), (645, 46616), (671, 46655), (677, 46664), (695, 46694), (722, 46739), (725, 46742), (776, 46796), (778, 46802), (779, 46805), (781, 46808), (785, 46820), (805, 46880), (814, 46910), (1079, 47153), (1089,

47171), (1138, 47243), (1162, 47279),

Gene: Hello_57 Start: 52849, Stop: 51437, Start Num: 375

Candidate Starts for Hello_57:

(177, 53197), (233, 53068), (288, 52981), (Start: 290 @52978 has 3 MA's), (Start: 375 @52849 has 28 MA's), (Start: 395 @52804 has 1 MA's), (443, 52714), (444, 52711), (448, 52705), (455, 52684), (483, 52621), (516, 52513), (525, 52495), (580, 52408), (583, 52393), (601, 52351), (635, 52270), (665, 52222), (690, 52180), (698, 52162), (700, 52159), (714, 52132), (758, 52081), (776, 52045), (794, 51994), (857, 51910), (867, 51889), (982, 51733), (985, 51727), (990, 51715), (1055, 51589), (1109, 51475),

Gene: Helpful_56 Start: 40102, Stop: 42045, Start Num: 65

Candidate Starts for Helpful_56:

(34, 40033), (Start: 65 @40102 has 24 MA's), (80, 40129), (104, 40201), (121, 40255), (140, 40315), (146, 40333), (151, 40342), (174, 40393), (193, 40435), (219, 40471), (269, 40558), (329, 40651), (335, 40666), (347, 40687), (414, 40789), (438, 40822), (450, 40846), (512, 40906), (562, 40993), (596, 41068), (652, 41158), (688, 41209), (690, 41212), (764, 41302), (777, 41320), (788, 41353), (810, 41407), (814, 41419), (824, 41437), (865, 41500), (939, 41584), (992, 41701), (1009, 41749), (1040, 41812), (1078, 41896),

Gene: Hemma_70 Start: 45746, Stop: 46978, Start Num: 294

Candidate Starts for Hemma_70:

(Start: 294 @45746 has 45 MA's), (312, 45782), (Start: 318 @45791 has 13 MA's), (388, 45917), (397, 45938), (518, 46121), (519, 46124), (578, 46184), (587, 46214), (677, 46376), (680, 46382), (700, 46418), (773, 46499), (781, 46520), (993, 46703), (1009, 46721), (1036, 46781), (1041, 46787), (1068, 46847), (1096, 46898),

Gene: Henoccus_42 Start: 30892, Stop: 32286, Start Num: 302

Candidate Starts for Henoccus_42:

(Start: 302 @30892 has 13 MA's), (Start: 303 @30895 has 4 MA's), (339, 30970), (353, 30994), (381, 31024), (383, 31027), (Start: 387 @31039 has 1 MA's), (440, 31129), (454, 31153), (509, 31198), (512, 31204), (547, 31264), (575, 31285), (595, 31339), (634, 31438), (651, 31465), (659, 31474), (740, 31600), (777, 31648), (785, 31669), (788, 31681), (794, 31696), (808, 31726), (821, 31759), (827, 31768), (912, 31810), (942, 31876), (944, 31879), (953, 31900), (963, 31918), (971, 31936), (992, 31990), (1009, 32020), (1034, 32077), (1036, 32080), (1061, 32128), (1082, 32182), (1138, 32251), (1150, 32269),

Gene: Herb_26 Start: 21732, Stop: 23129, Start Num: 295

Candidate Starts for Herb_26:

(Start: 295 @21732 has 213 MA's), (328, 21792), (379, 21879), (Start: 387 @21897 has 1 MA's), (388, 21900), (429, 21984), (433, 21990), (452, 22017), (509, 22068), (512, 22074), (540, 22125), (547, 22134), (575, 22155), (580, 22164), (590, 22200), (601, 22221), (610, 22254), (620, 22275), (627, 22293), (630, 22299), (650, 22326), (660, 22338), (667, 22353), (704, 22407), (742, 22458), (754, 22464), (761, 22473), (764, 22479), (777, 22500), (788, 22533), (794, 22548), (797, 22557), (924, 22680), (942, 22719), (953, 22743), (961, 22755), (1009, 22863), (1012, 22869), (1017, 22878), (1019, 22884), (1034, 22920), (1072, 23007), (1140, 23097), (1156, 23121),

Gene: HerbBucket_73 Start: 45855, Stop: 47084, Start Num: 295

Candidate Starts for HerbBucket_73:

(Start: 295 @45855 has 213 MA's), (388, 46026), (455, 46158), (578, 46293), (587, 46323), (614, 46380), (671, 46476), (677, 46485), (680, 46491), (698, 46524), (781, 46629), (993, 46809), (1107, 47022), (1140, 47067),

Gene: HerculesXL_40 Start: 29477, Stop: 28092, Start Num: 319

Candidate Starts for HerculesXL_40:

(Start: 319 @29477 has 153 MA's), (443, 29264), (471, 29201), (508, 29180), (572, 29087), (577, 29084), (583, 29063), (590, 29042), (644, 28946), (781, 28775), (791, 28751), (797, 28739), (801, 28727), (805, 28715), (806, 28712), (811, 28694), (817, 28679), (874, 28619), (878, 28607), (883, 28595), (927, 28523), (940, 28493), (960, 28460), (1009, 28352), (1013, 28343), (1020, 28328), (1023, 28322), (1024, 28316), (1031, 28304), (1077, 28208), (1082, 28199), (1099, 28169), (1128, 28127),

Gene: Hexbug_60 Start: 41082, Stop: 39607, Start Num: 280

Candidate Starts for Hexbug_60:

(Start: 280 @41082 has 11 MA's), (Start: 303 @41040 has 4 MA's), (330, 40992), (Start: 343 @40965 has 1 MA's), (388, 40890), (391, 40881), (394, 40875), (443, 40791), (451, 40773), (454, 40764), (456, 40758), (577, 40635), (596, 40581), (599, 40575), (602, 40569), (639, 40506), (649, 40491), (661, 40476), (797, 40278), (808, 40245), (825, 40206), (867, 40161), (901, 40098), (907, 40086), (919, 40065), (926, 40050), (940, 40017), (942, 40014), (966, 39969), (988, 39912), (1013, 39858), (1036, 39807), (1093, 39696), (1104, 39675),

Gene: Heylee_73 Start: 47198, Stop: 45804, Start Num: 317

Candidate Starts for Heylee_73:

(Start: 317 @47198 has 13 MA's), (353, 47129), (399, 47054), (409, 47036), (425, 47006), (467, 46925), (511, 46895), (520, 46871), (656, 46631), (679, 46592), (773, 46478), (809, 46427), (831, 46406), (850, 46376), (860, 46361), (865, 46349), (914, 46268), (936, 46220), (950, 46193), (962, 46172), (997, 46088), (1032, 46022), (1139, 45833), (1146, 45821),

Gene: Hiddenleaf_40 Start: 25169, Stop: 27076, Start Num: 68

Candidate Starts for Hiddenleaf_40:

(17, 24995), (Start: 68 @25169 has 36 MA's), (93, 25232), (106, 25253), (122, 25307), (176, 25442), (199, 25484), (229, 25529), (335, 25703), (339, 25712), (394, 25802), (415, 25844), (422, 25859), (543, 26045), (620, 26180), (624, 26192), (650, 26225), (777, 26354), (824, 26471), (993, 26744), (1010, 26783), (1037, 26843), (1080, 26933), (1097, 26963), (1126, 27005), (1163, 27056),

Gene: HippoPololi_50 Start: 37814, Stop: 36324, Start Num: 277

Candidate Starts for HippoPololi_50:

(Start: 277 @37814 has 49 MA's), (Start: 303 @37772 has 4 MA's), (328, 37730), (330, 37724), (Start: 343 @37697 has 1 MA's), (379, 37643), (394, 37607), (Start: 408 @37580 has 1 MA's), (453, 37499), (454, 37496), (456, 37490), (465, 37469), (532, 37403), (577, 37367), (584, 37343), (596, 37313), (599, 37307), (602, 37301), (649, 37223), (772, 37082), (799, 37004), (811, 36965), (817, 36950), (857, 36914), (867, 36893), (868, 36890), (875, 36875), (886, 36848), (907, 36803), (940, 36734), (964, 36689), (966, 36686), (981, 36644), (988, 36629), (1009, 36584), (1010, 36581), (1013, 36575), (1036, 36524), (1055, 36494), (1097, 36404), (1121, 36371), (1146, 36335),

Gene: Hollow_57 Start: 53503, Stop: 51797, Start Num: 206

Candidate Starts for Hollow_57:

(Start: 206 @53503 has 9 MA's), (Start: 209 @53491 has 2 MA's), (259, 53392), (Start: 273 @53371 has 1 MA's), (Start: 316 @53305 has 5 MA's), (381, 53206), (Start: 395 @53170 has 1 MA's), (Start: 408 @53146 has 1 MA's), (412, 53137), (416, 53128), (443, 53080), (453, 53056), (472, 53014), (480, 52999), (483, 52984), (496, 52927), (498, 52924), (521, 52864), (523, 52861), (564, 52795), (568, 52792), (583, 52756), (584, 52753), (590, 52735), (595, 52726), (601, 52714), (621, 52666), (635, 52633), (648, 52609), (665, 52585), (679, 52561), (714, 52495), (776, 52396), (856, 52264), (857, 52261), (951, 52144), (953, 52141), (982, 52084), (990, 52066), (1048, 51949), (1050, 51946), (1057, 51934), (1109, 51835), (1125, 51814),

Gene: HollowPurple_85 Start: 50087, Stop: 48567, Start Num: 292

Candidate Starts for HollowPurple_85:

(265, 50120), (Start: 292 @50087 has 28 MA's), (Start: 315 @50036 has 2 MA's), (383, 49928), (412, 49862), (449, 49796), (529, 49679), (541, 49658), (578, 49601), (590, 49568), (592, 49565), (623, 49502), (653, 49451), (661, 49442), (665, 49433), (668, 49427), (686, 49403), (697, 49379), (723, 49340), (745, 49325), (781, 49274), (787, 49256), (821, 49163), (840, 49136), (865, 49091), (962, 48905), (1019, 48797), (1032, 48767), (1057, 48722), (1077, 48671), (1120, 48608),

Gene: HomeFry_79 Start: 55194, Stop: 53140, Start Num: 35

Candidate Starts for HomeFry_79:

(Start: 35 @55194 has 35 MA's), (85, 55074), (92, 55041), (129, 54945), (131, 54942), (198, 54792), (269, 54684), (Start: 297 @54651 has 15 MA's), (Start: 306 @54630 has 28 MA's), (325, 54600), (341, 54567), (394, 54477), (441, 54414), (553, 54258), (583, 54207), (627, 54111), (645, 54078), (688, 54015), (709, 53979), (777, 53892), (805, 53823), (810, 53805), (876, 53700), (921, 53631), (939, 53598), (942, 53592), (956, 53562), (965, 53547), (981, 53505), (1009, 53445), (1040, 53382), (1078, 53301), (1093, 53277), (1133, 53217),

Gene: Horseradish_55 Start: 38581, Stop: 37103, Start Num: 277

Candidate Starts for Horseradish_55:

(Start: 277 @38581 has 49 MA's), (328, 38494), (330, 38488), (356, 38437), (388, 38386), (394, 38371), (443, 38287), (453, 38263), (456, 38254), (577, 38131), (596, 38077), (599, 38071), (602, 38065), (622, 38035), (649, 37987), (740, 37873), (772, 37846), (781, 37822), (808, 37741), (815, 37717), (830, 37696), (867, 37657), (875, 37639), (877, 37633), (939, 37522), (942, 37516), (964, 37474), (971, 37456), (1009, 37369), (1013, 37360), (1023, 37339), (1036, 37309), (1055, 37279), (1066, 37246), (1099, 37186), (1121, 37156),

Gene: Hortihabitatio_84 Start: 53744, Stop: 54961, Start Num: 295

Candidate Starts for Hortihabitatio_84:

(Start: 295 @53744 has 213 MA's), (Start: 327 @53804 has 23 MA's), (333, 53819), (358, 53867), (359, 53870), (392, 53912), (455, 54032), (518, 54104), (519, 54107), (578, 54167), (604, 54233), (639, 54299), (650, 54317), (671, 54350), (673, 54353), (677, 54359), (711, 54416), (715, 54422), (717, 54425), (755, 54458), (765, 54473), (773, 54482), (776, 54491), (781, 54503), (799, 54557), (807, 54581), (819, 54614), (1012, 54710), (1018, 54722), (1029, 54749), (1079, 54851), (1086, 54863), (1115, 54908), (1142, 54947),

Gene: Hortus1_77 Start: 49476, Stop: 47953, Start Num: 292

Candidate Starts for Hortus1_77:

(246, 49542), (262, 49515), (Start: 292 @49476 has 28 MA's), (374, 49326), (383, 49317), (429, 49221), (448, 49188), (457, 49161), (511, 49107), (535, 49062), (537, 49059), (590, 48954), (592, 48951), (661, 48828), (665, 48819), (674, 48807), (707, 48753), (781, 48660), (819, 48552), (840, 48522), (844, 48516), (846, 48513), (848, 48510), (865, 48477), (869, 48465), (936, 48339), (962, 48291), (1010, 48201), (1019, 48183), (1042, 48135), (1105, 48012),

Gene: Hoshi_82 Start: 49408, Stop: 50592, Start Num: 295

Candidate Starts for Hoshi_82:

(Start: 295 @49408 has 213 MA's), (Start: 318 @49453 has 13 MA's), (333, 49483), (455, 49654), (518, 49726), (547, 49765), (587, 49828), (677, 49990), (698, 50029), (701, 50035), (720, 50062), (781, 50134), (799, 50188), (807, 50212), (814, 50236), (817, 50242), (909, 50266), (978, 50272), (1036, 50386), (1086, 50485), (1089, 50491), (1107, 50521), (1115, 50530), (1153, 50584),

Gene: HotFries_52 Start: 37541, Stop: 38713, Start Num: 297

Candidate Starts for HotFries_52:

(Start: 297 @37541 has 15 MA's), (312, 37574), (Start: 318 @37583 has 13 MA's), (347, 37640), (426, 37733), (519, 37862), (587, 37952), (614, 38009), (622, 38021), (673, 38108), (677, 38114), (690,

38135), (701, 38159), (713, 38174), (765, 38228), (773, 38237), (781, 38258), (782, 38261), (795, 38300), (1013, 38459), (1047, 38525), (1057, 38543), (1086, 38609), (1098, 38630),

Gene: Hotorobo_59 Start: 52337, Stop: 50805, Start Num: 306

Candidate Starts for Hotorobo_59:

(177, 52592), (201, 52541), (220, 52490), (248, 52436), (265, 52406), (Start: 290 @52373 has 3 MA's), (Start: 295 @52364 has 213 MA's), (Start: 306 @52337 has 28 MA's), (Start: 395 @52169 has 1 MA's), (416, 52127), (443, 52079), (449, 52067), (453, 52055), (455, 52049), (464, 52028), (479, 52001), (525, 51860), (580, 51773), (583, 51758), (587, 51746), (601, 51716), (622, 51665), (634, 51638), (665, 51587), (698, 51527), (700, 51524), (714, 51497), (747, 51455), (776, 51410), (857, 51275), (865, 51260), (883, 51239), (951, 51158), (953, 51155), (982, 51098), (985, 51092), (988, 51086), (990, 51080), (1025, 51005), (1048, 50966), (1055, 50954), (1057, 50951), (1099, 50858), (1109, 50843), (1125, 50822),

Gene: Htur_33 Start: 23465, Stop: 24892, Start Num: 298

Candidate Starts for Htur_33:

(267, 23426), (287, 23447), (Start: 298 @23465 has 19 MA's), (511, 23822), (547, 23885), (583, 23930), (590, 23951), (740, 24218), (777, 24266), (785, 24287), (794, 24314), (807, 24341), (808, 24344), (817, 24371), (821, 24377), (903, 24413), (944, 24491), (953, 24512), (963, 24530), (969, 24542), (1009, 24626), (1034, 24683), (1043, 24695), (1061, 24734), (1072, 24770), (1075, 24776),

Gene: HubbaBubba_67 Start: 51701, Stop: 49620, Start Num: 35

Candidate Starts for HubbaBubba_67:

(9, 51893), (11, 51875), (Start: 35 @51701 has 35 MA's), (123, 51470), (176, 51332), (269, 51182), (Start: 297 @51149 has 15 MA's), (339, 51068), (341, 51065), (394, 50975), (Start: 395 @50972 has 1 MA's), (441, 50912), (553, 50756), (627, 50609), (688, 50501), (700, 50477), (777, 50375), (796, 50321), (805, 50306), (847, 50225), (876, 50186), (919, 50123), (939, 50084), (942, 50078), (956, 50048), (1009, 49931), (1040, 49868), (1068, 49805), (1078, 49787), (1133, 49703),

Gene: Hubbs_78 Start: 49505, Stop: 47982, Start Num: 292

Candidate Starts for Hubbs_78:

(159, 49766), (177, 49724), (Start: 292 @49505 has 28 MA's), (347, 49394), (374, 49355), (383, 49346), (429, 49250), (451, 49208), (457, 49190), (511, 49136), (535, 49091), (537, 49088), (592, 48986), (661, 48863), (683, 48827), (707, 48788), (767, 48722), (781, 48695), (787, 48677), (798, 48647), (819, 48587), (840, 48557), (848, 48545), (850, 48539), (1010, 48230), (1019, 48212), (1037, 48170), (1042, 48164), (1053, 48146), (1054, 48143), (1124, 48017),

Gene: HumptyDumpty_90 Start: 58721, Stop: 60466, Start Num: 158

Candidate Starts for HumptyDumpty_90:

(Start: 158 @58721 has 18 MA's), (168, 58742), (205, 58820), (214, 58844), (236, 58889), (251, 58913), (Start: 278 @58952 has 3 MA's), (366, 59111), (Start: 375 @59120 has 28 MA's), (394, 59162), (405, 59183), (430, 59216), (435, 59222), (438, 59225), (444, 59240), (452, 59255), (527, 59342), (534, 59354), (538, 59360), (563, 59396), (578, 59420), (582, 59432), (652, 59564), (710, 59648), (724, 59669), (741, 59681), (759, 59696), (761, 59699), (777, 59723), (787, 59747), (793, 59759), (812, 59816), (856, 59861), (885, 59927), (893, 59939), (898, 59948), (907, 59972), (909, 59975), (928, 60011), (932, 60017), (940, 60041), (980, 60122), (981, 60128), (989, 60146), (998, 60173), (1002, 60179), (1019, 60209), (1021, 60215), (1053, 60275), (1073, 60326), (1076, 60332), (1099, 60371),

Gene: HungryHenry_40 Start: 30808, Stop: 29420, Start Num: 319

Candidate Starts for HungryHenry_40:

(39, 31459), (163, 31105), (197, 31030), (Start: 319 @30808 has 153 MA's), (405, 30664), (Start: 408 @30658 has 1 MA's), (410, 30655), (471, 30541), (511, 30514), (547, 30454), (572, 30427), (577,

30424), (622, 30328), (644, 30286), (781, 30115), (790, 30094), (797, 30079), (817, 30019), (874, 29959), (927, 29863), (960, 29800), (982, 29746), (1023, 29662), (1024, 29656), (1031, 29644), (1077, 29548), (1109, 29494), (1112, 29491), (1128, 29467),

Gene: HunterDalle_26 Start: 21745, Stop: 23139, Start Num: 295

Candidate Starts for HunterDalle_26:

(Start: 295 @21745 has 213 MA's), (328, 21802), (379, 21889), (Start: 387 @21907 has 1 MA's), (388, 21910), (429, 21994), (452, 22027), (509, 22078), (512, 22084), (547, 22144), (580, 22174), (590, 22210), (599, 22228), (610, 22264), (620, 22285), (627, 22303), (630, 22309), (650, 22336), (704, 22417), (719, 22444), (742, 22468), (761, 22483), (777, 22510), (788, 22543), (794, 22558), (940, 22726), (953, 22753), (961, 22765), (969, 22783), (1009, 22873), (1012, 22879), (1019, 22894), (1020, 22897), (1034, 22930), (1063, 22990), (1072, 23017), (1117, 23074), (1140, 23107), (1156, 23131),

Gene: Huntingdon_29 Start: 22127, Stop: 23518, Start Num: 295

Candidate Starts for Huntingdon_29:

(Start: 295 @22127 has 213 MA's), (Start: 343 @22214 has 1 MA's), (Start: 387 @22286 has 1 MA's), (388, 22289), (419, 22355), (429, 22373), (433, 22379), (452, 22406), (512, 22463), (575, 22544), (580, 22553), (590, 22589), (599, 22607), (610, 22643), (620, 22664), (627, 22682), (650, 22715), (681, 22754), (704, 22796), (719, 22823), (742, 22847), (775, 22883), (777, 22889), (788, 22922), (794, 22937), (797, 22946), (817, 22991), (865, 23024), (866, 23027), (942, 23108), (961, 23144), (963, 23150), (969, 23162), (1009, 23252), (1019, 23273), (1020, 23276), (1031, 23300), (1034, 23309), (1072, 23396), (1113, 23447), (1140, 23486), (1156, 23510),

Gene: Huwbert_59 Start: 36808, Stop: 38358, Start Num: 275

Candidate Starts for Huwbert_59:

(Start: 272 @36805 has 1 MA's), (Start: 275 @36808 has 1 MA's), (312, 36874), (330, 36904), (345, 36934), (370, 36973), (386, 37000), (391, 37015), (418, 37069), (440, 37099), (504, 37183), (545, 37267), (552, 37276), (554, 37279), (622, 37399), (628, 37414), (684, 37501), (727, 37567), (762, 37591), (811, 37714), (815, 37726), (882, 37813), (933, 37912), (939, 37930), (998, 38068), (1121, 38296), (1126, 38305), (1128, 38308),

Gene: Hydrus_85 Start: 54691, Stop: 55905, Start Num: 295

Candidate Starts for Hydrus_85:

(Start: 295 @54691 has 213 MA's), (299, 54697), (Start: 327 @54751 has 23 MA's), (328, 54754), (333, 54766), (358, 54814), (359, 54817), (392, 54859), (413, 54901), (429, 54928), (433, 54934), (452, 54973), (518, 55051), (519, 55054), (578, 55114), (623, 55216), (639, 55246), (657, 55273), (671, 55297), (673, 55300), (677, 55306), (695, 55336), (698, 55345), (700, 55348), (715, 55369), (717, 55372), (720, 55378), (725, 55384), (760, 55411), (765, 55420), (776, 55438), (779, 55447), (781, 55450), (784, 55459), (799, 55504), (807, 55528), (814, 55552), (910, 55597), (1009, 55651), (1012, 55657), (1018, 55669), (1068, 55777), (1096, 55828), (1115, 55855), (1138, 55888),

Gene: IDyn_69 Start: 52448, Stop: 50367, Start Num: 35

Candidate Starts for IDyn_69:

(9, 52640), (11, 52622), (16, 52547), (Start: 35 @52448 has 35 MA's), (123, 52217), (176, 52079), (269, 51929), (Start: 297 @51896 has 15 MA's), (336, 51821), (339, 51815), (341, 51812), (394, 51722), (Start: 395 @51719 has 1 MA's), (441, 51659), (553, 51503), (627, 51356), (688, 51248), (700, 51224), (777, 51122), (796, 51068), (805, 51053), (847, 50972), (876, 50933), (919, 50870), (939, 50831), (942, 50825), (956, 50795), (1009, 50678), (1040, 50615), (1068, 50552), (1078, 50534), (1133, 50450),

Gene: IceWarrior_81 Start: 49214, Stop: 50398, Start Num: 295

Candidate Starts for IceWarrior_81:

(Start: 295 @49214 has 213 MA's), (Start: 318 @49259 has 13 MA's), (333, 49289), (455, 49460), (587, 49634), (677, 49796), (698, 49835), (701, 49841), (720, 49868), (781, 49940), (799, 49994), (807, 50018), (814, 50042), (817, 50048), (909, 50072), (978, 50078), (1036, 50192), (1086, 50291), (1089, 50297), (1107, 50327), (1115, 50336), (1147, 50381),

Gene: Ichor_70 Start: 47416, Stop: 46022, Start Num: 317

Candidate Starts for Ichor_70:

(Start: 317 @47416 has 13 MA's), (353, 47347), (399, 47272), (409, 47254), (425, 47224), (467, 47143), (656, 46849), (679, 46810), (773, 46696), (831, 46624), (850, 46594), (860, 46579), (865, 46567), (898, 46516), (923, 46465), (934, 46447), (936, 46438), (962, 46390), (1032, 46240), (1139, 46051),

Gene: Ilzat_40 Start: 30819, Stop: 29431, Start Num: 319

Candidate Starts for Ilzat_40:

(39, 31470), (163, 31116), (197, 31041), (Start: 319 @30819 has 153 MA's), (405, 30675), (Start: 408 @30669 has 1 MA's), (410, 30666), (471, 30552), (511, 30525), (547, 30465), (572, 30438), (577, 30435), (622, 30339), (644, 30297), (781, 30126), (790, 30105), (797, 30090), (817, 30030), (874, 29970), (927, 29874), (960, 29811), (982, 29757), (1023, 29673), (1024, 29667), (1031, 29655), (1077, 29559), (1109, 29505), (1112, 29502), (1128, 29478),

Gene: IndiRoo_33 Start: 21703, Stop: 23130, Start Num: 298

Candidate Starts for IndiRoo_33:

(281, 21682), (Start: 298 @21703 has 19 MA's), (509, 22057), (511, 22060), (519, 22081), (583, 22168), (601, 22210), (773, 22492), (777, 22504), (785, 22525), (794, 22552), (807, 22579), (808, 22582), (817, 22609), (821, 22615), (903, 22651), (953, 22750), (981, 22813), (992, 22834), (1020, 22888), (1034, 22921), (1043, 22933), (1061, 22972), (1072, 23008), (1075, 23014), (1082, 23026), (1113, 23059), (1134, 23089),

Gene: Indigenous_83 Start: 49799, Stop: 50983, Start Num: 295

Candidate Starts for Indigenous_83:

(Start: 295 @49799 has 213 MA's), (Start: 318 @49844 has 13 MA's), (333, 49874), (455, 50045), (518, 50117), (547, 50156), (587, 50219), (677, 50381), (698, 50420), (701, 50426), (720, 50453), (781, 50525), (799, 50579), (807, 50603), (814, 50627), (817, 50633), (909, 50657), (978, 50663), (1036, 50777), (1086, 50876), (1089, 50882), (1107, 50912), (1115, 50921), (1153, 50975),

Gene: Indlulamithi_65 Start: 45619, Stop: 47481, Start Num: 103

Candidate Starts for Indlulamithi_65:

(Start: 103 @45619 has 1 MA's), (110, 45634), (199, 45862), (239, 45922), (263, 45964), (Start: 294 @46000 has 45 MA's), (310, 46033), (Start: 322 @46051 has 4 MA's), (354, 46111), (367, 46129), (Start: 387 @46162 has 1 MA's), (405, 46201), (453, 46291), (461, 46312), (466, 46315), (509, 46336), (601, 46513), (638, 46582), (666, 46618), (679, 46639), (688, 46651), (731, 46717), (775, 46759), (777, 46765), (788, 46798), (794, 46813), (806, 46837), (807, 46840), (814, 46864), (819, 46873), (888, 46960), (965, 47065), (1018, 47206), (1068, 47314), (1078, 47335), (1087, 47350), (1121, 47401), (1162, 47458), (1165, 47464), (1167, 47476),

Gene: Ingrid_79 Start: 48327, Stop: 49514, Start Num: 318

Candidate Starts for Ingrid_79:

(312, 48318), (Start: 318 @48327 has 13 MA's), (388, 48453), (519, 48660), (578, 48720), (587, 48750), (677, 48912), (700, 48954), (776, 49044), (781, 49056), (992, 49236), (1036, 49317), (1060, 49362), (1096, 49434), (1107, 49452),

Gene: Inked_79 Start: 49076, Stop: 50290, Start Num: 318

Candidate Starts for Inked_79:

(Start: 292 @49025 has 28 MA's), (Start: 294 @49031 has 45 MA's), (312, 49067), (Start: 318 @49076 has 13 MA's), (388, 49202), (426, 49277), (518, 49406), (519, 49409), (578, 49469), (587, 49499), (657, 49628), (677, 49661), (700, 49703), (781, 49805), (992, 49985), (1036, 50066), (1060, 50111), (1096, 50183),

Gene: Intolerant_41 Start: 31037, Stop: 32431, Start Num: 302

Candidate Starts for Intolerant_41:

(Start: 302 @31037 has 13 MA's), (Start: 303 @31040 has 4 MA's), (339, 31115), (353, 31139), (381, 31169), (Start: 387 @31184 has 1 MA's), (440, 31274), (459, 31310), (547, 31409), (554, 31418), (596, 31487), (651, 31610), (740, 31745), (764, 31772), (777, 31793), (785, 31814), (808, 31871), (821, 31904), (827, 31913), (912, 31955), (942, 32021), (953, 32045), (963, 32063), (971, 32081), (992, 32135), (1009, 32165), (1034, 32222), (1036, 32225), (1061, 32273), (1074, 32312), (1082, 32327), (1138, 32396), (1150, 32414), (1156, 32423),

Gene: Inventa_41 Start: 31114, Stop: 29726, Start Num: 319

Candidate Starts for Inventa_41:

(39, 31765), (163, 31411), (197, 31336), (Start: 319 @31114 has 153 MA's), (405, 30970), (Start: 408 @30964 has 1 MA's), (410, 30961), (471, 30847), (511, 30820), (547, 30760), (572, 30733), (577, 30730), (622, 30634), (644, 30592), (777, 30430), (781, 30421), (790, 30400), (797, 30385), (801, 30373), (817, 30325), (874, 30265), (927, 30169), (960, 30106), (982, 30052), (1023, 29968), (1024, 29962), (1031, 29950), (1077, 29854), (1109, 29800), (1112, 29797), (1128, 29773),

Gene: Ioannes_41 Start: 31118, Stop: 29730, Start Num: 319

Candidate Starts for Ioannes_41:

(197, 31340), (Start: 319 @31118 has 153 MA's), (405, 30974), (Start: 408 @30968 has 1 MA's), (471, 30851), (511, 30824), (547, 30764), (572, 30737), (577, 30734), (617, 30641), (622, 30638), (644, 30596), (781, 30425), (790, 30404), (797, 30389), (801, 30377), (817, 30329), (874, 30269), (927, 30173), (960, 30110), (982, 30056), (1023, 29972), (1024, 29966), (1031, 29954), (1066, 29879), (1077, 29858), (1109, 29804), (1112, 29801), (1128, 29777),

Gene: Issa_67 Start: 47543, Stop: 48793, Start Num: 294

Candidate Starts for Issa_67:

(Start: 292 @47537 has 28 MA's), (Start: 294 @47543 has 45 MA's), (299, 47552), (312, 47582), (Start: 318 @47591 has 13 MA's), (358, 47669), (388, 47717), (Start: 395 @47735 has 1 MA's), (455, 47849), (518, 47921), (578, 47984), (587, 48014), (622, 48083), (677, 48176), (680, 48182), (700, 48218), (781, 48320), (992, 48497), (1036, 48578), (1057, 48611), (1060, 48623), (1061, 48626), (1096, 48695), (1107, 48713),

Gene: Issa7_83 Start: 49544, Stop: 48024, Start Num: 292

Candidate Starts for Issa7_83:

(265, 49577), (Start: 292 @49544 has 28 MA's), (Start: 315 @49493 has 2 MA's), (383, 49385), (412, 49319), (449, 49253), (535, 49130), (541, 49115), (578, 49058), (590, 49025), (592, 49022), (623, 48959), (653, 48908), (661, 48899), (665, 48890), (668, 48884), (686, 48860), (697, 48836), (723, 48797), (745, 48782), (781, 48731), (787, 48713), (798, 48683), (844, 48587), (865, 48548), (962, 48362), (1019, 48254), (1032, 48224), (1057, 48179), (1120, 48065),

Gene: Ixel_41 Start: 29711, Stop: 28434, Start Num: 387

Candidate Starts for Ixel_41:

(Start: 319 @29819 has 153 MA's), (Start: 387 @29711 has 1 MA's), (405, 29675), (410, 29666), (471, 29543), (508, 29522), (572, 29429), (577, 29426), (590, 29384), (615, 29336), (622, 29330), (644, 29288), (741, 29165), (781, 29117), (790, 29096), (801, 29069), (805, 29057), (806, 29054), (811, 29036), (874, 28961), (878, 28949), (927, 28865), (948, 28820), (991, 28730), (1009, 28694), (1013, 28685), (1020, 28670), (1023, 28664), (1024, 28658), (1031, 28646), (1077, 28550), (1099, 28511),

Gene: JDawG_39 Start: 25586, Stop: 27493, Start Num: 68

Candidate Starts for JDawG_39:

(17, 25412), (Start: 68 @25586 has 36 MA's), (93, 25649), (106, 25670), (122, 25724), (176, 25859), (199, 25901), (229, 25946), (335, 26120), (339, 26129), (394, 26219), (415, 26261), (422, 26276), (543, 26462), (620, 26597), (624, 26609), (650, 26642), (709, 26735), (777, 26771), (811, 26861), (824, 26888), (1009, 27197), (1010, 27200), (1037, 27260), (1080, 27350), (1097, 27380), (1126, 27422), (1163, 27473),

Gene: JEGGS_78 Start: 46113, Stop: 47423, Start Num: 295

Candidate Starts for JEGGS_78:

(Start: 295 @46113 has 213 MA's), (455, 46416), (578, 46551), (587, 46581), (622, 46650), (645, 46695), (671, 46734), (677, 46743), (695, 46773), (722, 46818), (725, 46821), (776, 46875), (778, 46881), (779, 46884), (781, 46887), (785, 46899), (805, 46959), (814, 46989), (1079, 47232), (1089, 47250), (1138, 47322), (1162, 47358),

Gene: JaNo_89 Start: 58692, Stop: 60437, Start Num: 158

Candidate Starts for JaNo_89:

(Start: 158 @58692 has 18 MA's), (168, 58713), (205, 58791), (214, 58815), (236, 58860), (251, 58884), (Start: 278 @58923 has 3 MA's), (366, 59082), (Start: 375 @59091 has 28 MA's), (394, 59133), (405, 59154), (430, 59187), (435, 59193), (438, 59196), (444, 59211), (452, 59226), (527, 59313), (534, 59325), (538, 59331), (563, 59367), (578, 59391), (582, 59403), (652, 59535), (710, 59619), (724, 59640), (741, 59652), (759, 59667), (761, 59670), (777, 59694), (787, 59718), (793, 59730), (812, 59787), (856, 59832), (885, 59898), (893, 59910), (898, 59919), (907, 59943), (909, 59946), (928, 59982), (932, 59988), (940, 60012), (980, 60093), (981, 60099), (989, 60117), (998, 60144), (1002, 60150), (1019, 60180), (1021, 60186), (1053, 60246), (1073, 60297), (1076, 60303), (1099, 60342),

Gene: JackieB_42 Start: 30731, Stop: 32125, Start Num: 302

Candidate Starts for JackieB_42:

(Start: 302 @30731 has 13 MA's), (Start: 303 @30734 has 4 MA's), (339, 30809), (353, 30833), (381, 30863), (383, 30866), (Start: 387 @30878 has 1 MA's), (440, 30968), (454, 30992), (509, 31037), (512, 31043), (547, 31103), (575, 31124), (595, 31178), (634, 31277), (651, 31304), (659, 31313), (740, 31439), (777, 31487), (785, 31508), (788, 31520), (794, 31535), (808, 31565), (821, 31598), (827, 31607), (912, 31649), (944, 31718), (953, 31739), (963, 31757), (971, 31775), (992, 31829), (1009, 31859), (1034, 31916), (1036, 31919), (1061, 31967), (1082, 32021), (1138, 32090), (1150, 32108),

Gene: Jacko_79 Start: 48477, Stop: 46960, Start Num: 292

Candidate Starts for Jacko_79:

(Start: 280 @48495 has 11 MA's), (Start: 292 @48477 has 28 MA's), (Start: 315 @48426 has 2 MA's), (374, 48327), (383, 48318), (399, 48279), (429, 48222), (528, 48072), (537, 48060), (590, 47958), (592, 47955), (632, 47874), (653, 47841), (661, 47832), (697, 47769), (707, 47757), (767, 47691), (798, 47616), (819, 47556), (865, 47481), (889, 47430), (936, 47343), (989, 47250), (1010, 47205), (1019, 47187), (1032, 47157), (1042, 47139), (1054, 47118), (1090, 47043), (1105, 47016), (1124, 46992),

Gene: JacoRen57_46 Start: 39673, Stop: 38201, Start Num: 282

Candidate Starts for JacoRen57_46:

(270, 39685), (Start: 282 @39673 has 2 MA's), (329, 39586), (330, 39583), (383, 39496), (388, 39481), (391, 39472), (453, 39358), (596, 39172), (602, 39160), (649, 39082), (793, 38881), (811, 38821), (815, 38809), (817, 38806), (964, 38566), (971, 38548), (992, 38494), (1013, 38452), (1023, 38431), (1036, 38401), (1047, 38386), (1093, 38290), (1099, 38278), (1141, 38218),

Gene: Jaek_70 Start: 47416, Stop: 46022, Start Num: 317

Candidate Starts for Jaek_70:

(Start: 317 @47416 has 13 MA's), (353, 47347), (399, 47272), (409, 47254), (425, 47224), (467, 47143), (656, 46849), (679, 46810), (773, 46696), (831, 46624), (850, 46594), (860, 46579), (865, 46567), (898, 46516), (923, 46465), (934, 46447), (936, 46438), (962, 46390), (1032, 46240), (1139, 46051),

Gene: Jalebi_59 Start: 41637, Stop: 43553, Start Num: 55

Candidate Starts for Jalebi_59:

(Start: 55 @41637 has 13 MA's), (Start: 58 @41640 has 23 MA's), (Start: 76 @41652 has 2 MA's), (Start: 89 @41700 has 2 MA's), (125, 41802), (155, 41892), (172, 41919), (175, 41928), (219, 42000), (Start: 297 @42120 has 15 MA's), (331, 42183), (Start: 387 @42273 has 1 MA's), (401, 42300), (509, 42429), (519, 42453), (542, 42495), (577, 42543), (583, 42564), (590, 42585), (620, 42642), (652, 42696), (679, 42738), (716, 42798), (788, 42894), (790, 42897), (915, 43074), (951, 43125), (991, 43212), (992, 43215), (1009, 43251), (1012, 43257), (1037, 43311), (1059, 43350), (1112, 43452), (1123, 43467), (1137, 43488),

Gene: Jamemuya19_59 Start: 39419, Stop: 41335, Start Num: 55

Candidate Starts for Jamemuya19_59:

(Start: 55 @39419 has 13 MA's), (Start: 58 @39422 has 23 MA's), (Start: 76 @39434 has 2 MA's), (Start: 89 @39482 has 2 MA's), (Start: 103 @39515 has 1 MA's), (155, 39674), (172, 39701), (175, 39710), (219, 39782), (Start: 297 @39902 has 15 MA's), (331, 39965), (Start: 387 @40055 has 1 MA's), (401, 40082), (509, 40211), (519, 40235), (542, 40277), (548, 40289), (562, 40304), (577, 40325), (583, 40346), (590, 40367), (620, 40424), (627, 40442), (652, 40478), (679, 40520), (716, 40580), (788, 40676), (790, 40679), (915, 40856), (951, 40907), (992, 40997), (1009, 41033), (1012, 41039), (1037, 41093), (1059, 41132), (1112, 41234), (1123, 41249), (1137, 41270),

Gene: Jams_57 Start: 52059, Stop: 50647, Start Num: 375

Candidate Starts for Jams_57:

(177, 52407), (233, 52278), (Start: 290 @52188 has 3 MA's), (Start: 375 @52059 has 28 MA's), (Start: 395 @52014 has 1 MA's), (443, 51924), (444, 51921), (448, 51915), (455, 51894), (483, 51831), (503, 51753), (516, 51723), (525, 51705), (580, 51618), (583, 51603), (601, 51561), (635, 51480), (665, 51432), (690, 51390), (698, 51372), (700, 51369), (714, 51342), (758, 51291), (776, 51255), (794, 51204), (857, 51120), (867, 51099), (982, 50943), (985, 50937), (990, 50925), (1055, 50799), (1109, 50685),

Gene: Jamzy_58 Start: 39427, Stop: 37952, Start Num: 280

Candidate Starts for Jamzy_58:

(Start: 280 @39427 has 11 MA's), (330, 39337), (Start: 343 @39310 has 1 MA's), (379, 39256), (388, 39235), (391, 39226), (394, 39220), (443, 39136), (448, 39127), (454, 39109), (456, 39103), (577, 38980), (596, 38926), (599, 38920), (602, 38914), (628, 38869), (649, 38836), (797, 38623), (808, 38590), (825, 38551), (867, 38506), (875, 38488), (877, 38482), (904, 38437), (907, 38431), (919, 38410), (940, 38362), (942, 38359), (964, 38317), (966, 38314), (971, 38299), (1013, 38203), (1036, 38152), (1066, 38089), (1104, 38020), (1143, 37966),

Gene: Janus167_40 Start: 30803, Stop: 29415, Start Num: 319

Candidate Starts for Janus167_40:

(197, 31025), (Start: 319 @30803 has 153 MA's), (405, 30659), (Start: 408 @30653 has 1 MA's), (410, 30650), (471, 30536), (511, 30509), (547, 30449), (572, 30422), (577, 30419), (622, 30323), (644, 30281), (781, 30110), (790, 30089), (797, 30074), (801, 30062), (817, 30014), (874, 29954), (927, 29858), (960, 29795), (982, 29741), (1023, 29657), (1024, 29651), (1031, 29639), (1077, 29543), (1109, 29489), (1112, 29486), (1128, 29462),

Gene: Jasmine_49 Start: 42488, Stop: 40368, Start Num: 130

Candidate Starts for Jasmine_49:

(Start: 130 @42488 has 2 MA's), (173, 42395), (211, 42311), (215, 42299), (264, 42209), (285, 42182), (Start: 297 @42161 has 15 MA's), (307, 42134), (337, 42080), (444, 41879), (451, 41864), (456, 41849), (464, 41831), (471, 41819), (476, 41807), (482, 41786), (488, 41738), (489, 41735), (493, 41711), (506, 41669), (509, 41663), (559, 41573), (577, 41549), (622, 41426), (650, 41372), (713, 41261), (728, 41240), (734, 41225), (753, 41165), (784, 41090), (785, 41087), (889, 40922), (942, 40835), (958, 40802), (1036, 40604), (1042, 40598), (1068, 40538), (1099, 40475), (1121, 40445), (1137, 40421), (1141, 40415),

Gene: JasonD_43 Start: 31699, Stop: 30293, Start Num: 316

Candidate Starts for JasonD_43:

(212, 31888), (256, 31798), (258, 31795), (Start: 316 @31699 has 5 MA's), (405, 31552), (Start: 408 @31546 has 1 MA's), (443, 31483), (471, 31429), (511, 31402), (547, 31342), (572, 31315), (577, 31312), (622, 31216), (644, 31174), (777, 31012), (781, 31003), (790, 30982), (794, 30976), (797, 30967), (820, 30904), (857, 30883), (874, 30847), (883, 30823), (929, 30748), (948, 30706), (1023, 30550), (1024, 30544), (1031, 30532), (1077, 30436), (1093, 30409), (1109, 30382),

Gene: JasperRussell_40 Start: 30803, Stop: 29415, Start Num: 319

Candidate Starts for JasperRussell_40:

(163, 31100), (197, 31025), (Start: 319 @30803 has 153 MA's), (405, 30659), (Start: 408 @30653 has 1 MA's), (410, 30650), (471, 30536), (511, 30509), (547, 30449), (572, 30422), (577, 30419), (622, 30323), (644, 30281), (781, 30110), (790, 30089), (797, 30074), (817, 30014), (874, 29954), (927, 29858), (960, 29795), (982, 29741), (1023, 29657), (1024, 29651), (1031, 29639), (1077, 29543), (1109, 29489), (1112, 29486), (1128, 29462),

Gene: JayCookie_90 Start: 59254, Stop: 60999, Start Num: 158

Candidate Starts for JayCookie_90:

(Start: 158 @59254 has 18 MA's), (168, 59275), (205, 59353), (214, 59377), (236, 59422), (251, 59446), (Start: 278 @59485 has 3 MA's), (366, 59644), (Start: 375 @59653 has 28 MA's), (394, 59695), (405, 59716), (430, 59749), (435, 59755), (438, 59758), (444, 59773), (452, 59788), (527, 59875), (534, 59887), (538, 59893), (563, 59929), (578, 59953), (582, 59965), (652, 60097), (710, 60181), (724, 60202), (741, 60214), (759, 60229), (761, 60232), (777, 60256), (787, 60280), (793, 60292), (812, 60349), (856, 60394), (885, 60460), (893, 60472), (898, 60481), (907, 60505), (909, 60508), (928, 60544), (932, 60550), (940, 60574), (980, 60655), (981, 60661), (989, 60679), (998, 60706), (1002, 60712), (1019, 60742), (1021, 60748), (1053, 60808), (1073, 60859), (1076, 60865), (1099, 60904),

Gene: Jaylociraptor_81 Start: 49380, Stop: 50564, Start Num: 295

Candidate Starts for Jaylociraptor_81:

(Start: 295 @49380 has 213 MA's), (Start: 318 @49425 has 13 MA's), (333, 49455), (455, 49626), (518, 49698), (547, 49737), (587, 49800), (677, 49962), (698, 50001), (701, 50007), (720, 50034), (781, 50106), (799, 50160), (807, 50184), (814, 50208), (817, 50214), (909, 50238), (978, 50244), (1036, 50358), (1086, 50457), (1089, 50463), (1107, 50493), (1115, 50502), (1153, 50556),

Gene: Jazzy4900_73 Start: 48298, Stop: 49527, Start Num: 294

Candidate Starts for Jazzy4900_73:

(Start: 294 @48298 has 45 MA's), (Start: 318 @48346 has 13 MA's), (388, 48472), (455, 48604), (519, 48679), (578, 48739), (587, 48769), (594, 48784), (596, 48790), (622, 48838), (660, 48901), (677, 48931), (1036, 49333), (1047, 49348), (1138, 49510), (1140, 49513),

Gene: JeNeSaisPas_134 Start: 72486, Stop: 73730, Start Num: 294

Candidate Starts for JeNeSaisPas_134:

(Start: 294 @72486 has 45 MA's), (312, 72525), (Start: 318 @72534 has 13 MA's), (388, 72660), (413, 72714), (578, 72927), (587, 72957), (622, 73026), (677, 73119), (773, 73242), (781, 73263), (805, 73335), (824, 73383), (867, 73401), (1012, 73467), (1047, 73536), (1068, 73587), (1096, 73638), (1107, 73656),

Gene: Jellybones_61 Start: 53432, Stop: 51900, Start Num: 306

Candidate Starts for Jellybones_61:

(177, 53687), (201, 53636), (233, 53558), (248, 53531), (265, 53501), (Start: 290 @53468 has 3 MA's), (Start: 295 @53459 has 213 MA's), (Start: 306 @53432 has 28 MA's), (381, 53300), (Start: 395 @53264 has 1 MA's), (416, 53222), (426, 53204), (443, 53174), (449, 53162), (455, 53144), (479, 53096), (580, 52868), (583, 52853), (587, 52841), (601, 52811), (622, 52760), (665, 52682), (679, 52658), (690, 52640), (698, 52622), (700, 52619), (705, 52610), (714, 52592), (747, 52550), (776, 52505), (783, 52487), (857, 52370), (865, 52355), (883, 52334), (937, 52277), (951, 52253), (953, 52250), (982, 52193), (985, 52187), (990, 52175), (1016, 52124), (1025, 52100), (1048, 52061), (1055, 52049), (1057, 52046), (1099, 51953), (1109, 51938), (1125, 51917),

Gene: Jemerald_42 Start: 31717, Stop: 30299, Start Num: 319

Candidate Starts for Jemerald_42:

(Start: 319 @31717 has 153 MA's), (Start: 327 @31711 has 23 MA's), (405, 31573), (441, 31510), (471, 31450), (508, 31429), (570, 31342), (572, 31336), (577, 31333), (583, 31312), (602, 31267), (615, 31243), (622, 31237), (644, 31195), (762, 31057), (781, 31024), (791, 31000), (817, 30928), (836, 30901), (863, 30853), (874, 30826), (920, 30739), (927, 30730), (976, 30631), (1009, 30559), (1013, 30550), (1020, 30535), (1023, 30529), (1077, 30415), (1099, 30376), (1102, 30370), (1128, 30334), (1131, 30331),

Gene: Jenos_44 Start: 32344, Stop: 30941, Start Num: 319

Candidate Starts for Jenos_44:

(Start: 183 @32587 has 10 MA's), (189, 32578), (212, 32527), (220, 32506), (256, 32437), (Start: 319 @32344 has 153 MA's), (405, 32200), (Start: 408 @32194 has 1 MA's), (443, 32131), (471, 32077), (511, 32050), (547, 31990), (572, 31963), (577, 31960), (622, 31864), (644, 31822), (777, 31660), (781, 31651), (790, 31630), (801, 31603), (820, 31552), (874, 31495), (903, 31441), (927, 31399), (948, 31354), (1012, 31222), (1023, 31198), (1024, 31192), (1031, 31180), (1077, 31084), (1093, 31057), (1109, 31030), (1152, 30973),

Gene: Jera_34 Start: 22504, Stop: 23931, Start Num: 298

Candidate Starts for Jera_34:

(270, 22462), (Start: 298 @22504 has 19 MA's), (464, 22822), (583, 22969), (590, 22990), (595, 22999), (740, 23257), (777, 23305), (785, 23326), (808, 23383), (821, 23416), (903, 23452), (944, 23530), (953, 23551), (991, 23632), (992, 23635), (1034, 23722), (1043, 23734), (1061, 23773), (1072, 23809), (1075, 23815), (1082, 23827), (1134, 23890),

Gene: Jerbirus_42 Start: 30803, Stop: 29415, Start Num: 319

Candidate Starts for Jerbirus_42:

(39, 31454), (163, 31100), (197, 31025), (Start: 319 @30803 has 153 MA's), (405, 30659), (Start: 408 @30653 has 1 MA's), (410, 30650), (471, 30536), (511, 30509), (547, 30449), (572, 30422), (577, 30419), (622, 30323), (644, 30281), (781, 30110), (790, 30089), (797, 30074), (817, 30014), (874, 29954), (927, 29858), (960, 29795), (982, 29741), (1023, 29657), (1024, 29651), (1031, 29639), (1077, 29543), (1109, 29489), (1112, 29486), (1128, 29462),

Gene: Jeremy4pt0_73 Start: 45841, Stop: 47070, Start Num: 295

Candidate Starts for Jeremy4pt0_73:

(Start: 295 @45841 has 213 MA's), (388, 46012), (455, 46144), (578, 46279), (587, 46309), (614, 46366), (677, 46471), (680, 46477), (698, 46510), (781, 46615), (993, 46795), (1107, 47008), (1140,

47053),

Gene: JeriBeth_40 Start: 30666, Stop: 29278, Start Num: 319

Candidate Starts for JeriBeth_40:

(197, 30888), (Start: 319 @30666 has 153 MA's), (405, 30522), (Start: 408 @30516 has 1 MA's), (410, 30513), (471, 30399), (511, 30372), (547, 30312), (572, 30285), (577, 30282), (622, 30186), (644, 30144), (781, 29973), (790, 29952), (797, 29937), (817, 29877), (874, 29817), (927, 29721), (960, 29658), (982, 29604), (1023, 29520), (1024, 29514), (1031, 29502), (1077, 29406), (1109, 29352), (1112, 29349), (1128, 29325),

Gene: Jifall16_71 Start: 56412, Stop: 54346, Start Num: 35

Candidate Starts for Jifall16_71:

(2, 56910), (5, 56709), (8, 56616), (9, 56604), (11, 56586), (Start: 35 @56412 has 35 MA's), (Start: 89 @56274 has 2 MA's), (96, 56250), (175, 56046), (198, 56001), (269, 55893), (339, 55779), (341, 55776), (394, 55686), (Start: 395 @55683 has 1 MA's), (441, 55623), (542, 55485), (553, 55467), (573, 55443), (627, 55320), (688, 55215), (777, 55089), (796, 55035), (865, 54909), (876, 54900), (885, 54876), (939, 54804), (942, 54798), (956, 54768), (981, 54711), (1009, 54651), (1040, 54588), (1078, 54507),

Gene: JingleBells_40 Start: 25290, Stop: 27197, Start Num: 68

Candidate Starts for JingleBells_40:

(17, 25116), (Start: 68 @25290 has 36 MA's), (93, 25353), (106, 25374), (122, 25428), (145, 25491), (176, 25563), (199, 25605), (229, 25650), (335, 25824), (339, 25833), (394, 25923), (415, 25965), (422, 25980), (543, 26166), (620, 26301), (624, 26313), (650, 26346), (777, 26475), (824, 26592), (1009, 26901), (1010, 26904), (1037, 26964), (1080, 27054), (1097, 27084), (1126, 27126), (1163, 27177),

Gene: Jingles_40 Start: 30552, Stop: 29173, Start Num: 327

Candidate Starts for Jingles_40:

(226, 30717), (252, 30672), (271, 30642), (Start: 315 @30570 has 2 MA's), (Start: 323 @30558 has 8 MA's), (Start: 327 @30552 has 23 MA's), (339, 30522), (405, 30414), (Start: 408 @30408 has 1 MA's), (410, 30405), (416, 30390), (540, 30213), (547, 30204), (554, 30195), (577, 30174), (590, 30132), (622, 30078), (781, 29865), (790, 29844), (797, 29829), (801, 29817), (806, 29802), (820, 29766), (826, 29757), (857, 29742), (874, 29706), (927, 29607), (960, 29544), (972, 29517), (1005, 29442), (1009, 29436), (1013, 29427), (1020, 29412), (1023, 29406), (1024, 29400), (1031, 29388), (1093, 29265), (1099, 29253),

Gene: Joann_29 Start: 22094, Stop: 23485, Start Num: 295

Candidate Starts for Joann_29:

(Start: 295 @22094 has 213 MA's), (Start: 343 @22181 has 1 MA's), (Start: 387 @22253 has 1 MA's), (388, 22256), (419, 22322), (429, 22340), (452, 22373), (512, 22430), (540, 22481), (543, 22487), (547, 22490), (580, 22520), (590, 22556), (599, 22574), (610, 22610), (620, 22631), (627, 22649), (650, 22682), (681, 22721), (704, 22763), (719, 22790), (742, 22814), (775, 22850), (777, 22856), (788, 22889), (794, 22904), (797, 22913), (817, 22958), (860, 22979), (865, 22991), (942, 23075), (953, 23099), (961, 23111), (963, 23117), (969, 23129), (1009, 23219), (1012, 23225), (1019, 23240), (1020, 23243), (1031, 23267), (1034, 23276), (1072, 23363), (1140, 23453), (1156, 23477),

Gene: Jodelie19_85 Start: 56153, Stop: 57367, Start Num: 295

Candidate Starts for Jodelie19_85:

(Start: 295 @56153 has 213 MA's), (299, 56159), (Start: 327 @56213 has 23 MA's), (328, 56216), (333, 56228), (347, 56255), (349, 56258), (359, 56279), (392, 56321), (413, 56363), (433, 56396), (452, 56435), (518, 56513), (519, 56516), (578, 56576), (623, 56678), (639, 56708), (657, 56735), (671, 56759), (677, 56768), (695, 56798), (698, 56807), (700, 56810), (717, 56834), (725, 56846),

(760, 56873), (765, 56882), (776, 56900), (779, 56909), (781, 56912), (784, 56921), (798, 56963), (807, 56990), (814, 57014), (865, 57044), (1018, 57131), (1068, 57239), (1096, 57290), (1115, 57317), (1138, 57350),

Gene: Johann_34 Start: 23371, Stop: 24798, Start Num: 298

Candidate Starts for Johann_34:

(Start: 298 @23371 has 19 MA's), (414, 23587), (464, 23689), (511, 23728), (547, 23791), (583, 23836), (590, 23857), (630, 23956), (740, 24124), (777, 24172), (785, 24193), (794, 24220), (807, 24247), (817, 24277), (821, 24283), (903, 24319), (944, 24397), (981, 24481), (991, 24499), (992, 24502), (1034, 24589), (1043, 24601), (1061, 24640), (1072, 24676), (1075, 24682), (1117, 24733), (1134, 24757),

Gene: John316_62 Start: 53495, Stop: 51963, Start Num: 306

Candidate Starts for John316_62:

(177, 53750), (201, 53699), (220, 53648), (248, 53594), (265, 53564), (Start: 290 @53531 has 3 MA's), (Start: 295 @53522 has 213 MA's), (Start: 306 @53495 has 28 MA's), (Start: 395 @53327 has 1 MA's), (416, 53285), (443, 53237), (449, 53225), (453, 53213), (455, 53207), (464, 53186), (479, 53159), (580, 52931), (583, 52916), (587, 52904), (601, 52874), (622, 52823), (634, 52796), (665, 52745), (690, 52703), (698, 52685), (700, 52682), (714, 52655), (747, 52613), (776, 52568), (857, 52433), (865, 52418), (883, 52397), (951, 52316), (953, 52313), (982, 52256), (985, 52250), (988, 52244), (990, 52238), (1025, 52163), (1048, 52124), (1055, 52112), (1057, 52109), (1099, 52016), (1109, 52001), (1125, 51980),

Gene: Jormungandr_57 Start: 52602, Stop: 51190, Start Num: 375

Candidate Starts for Jormungandr_57:

(177, 52950), (233, 52821), (Start: 290 @52731 has 3 MA's), (Start: 375 @52602 has 28 MA's), (Start: 395 @52557 has 1 MA's), (443, 52467), (444, 52464), (448, 52458), (455, 52437), (483, 52374), (516, 52266), (525, 52248), (580, 52161), (583, 52146), (601, 52104), (635, 52023), (665, 51975), (690, 51933), (698, 51915), (700, 51912), (714, 51885), (758, 51834), (776, 51798), (794, 51747), (857, 51663), (867, 51642), (982, 51486), (985, 51480), (990, 51468), (1055, 51342), (1109, 51228),

Gene: JoyLin_76 Start: 49753, Stop: 51030, Start Num: 295

Candidate Starts for JoyLin_76:

(Start: 295 @49753 has 213 MA's), (333, 49828), (362, 49882), (455, 50056), (504, 50092), (519, 50131), (578, 50191), (587, 50221), (677, 50383), (776, 50515), (784, 50536), (796, 50572), (799, 50581), (817, 50635), (910, 50671), (1013, 50734), (1036, 50785), (1047, 50800), (1068, 50851), (1086, 50884),

Gene: Juanyo_39 Start: 30553, Stop: 29183, Start Num: 327

Candidate Starts for Juanyo_39:

(Start: 323 @30556 has 8 MA's), (Start: 327 @30553 has 23 MA's), (Start: 387 @30451 has 1 MA's), (471, 30292), (511, 30265), (547, 30205), (572, 30178), (577, 30175), (608, 30094), (622, 30079), (727, 29923), (781, 29866), (790, 29845), (794, 29839), (797, 29830), (805, 29806), (811, 29785), (817, 29770), (838, 29746), (874, 29710), (903, 29656), (960, 29551), (967, 29539), (977, 29512), (991, 29479), (1009, 29443), (1013, 29434), (1020, 29419), (1023, 29413), (1024, 29407), (1031, 29395), (1077, 29299), (1082, 29290), (1093, 29272), (1099, 29260), (1128, 29218), (1147, 29191),

Gene: Juicer_42 Start: 31717, Stop: 30299, Start Num: 319

Candidate Starts for Juicer_42:

(Start: 319 @31717 has 153 MA's), (Start: 327 @31711 has 23 MA's), (405, 31573), (441, 31510), (471, 31450), (508, 31429), (570, 31342), (572, 31336), (577, 31333), (583, 31312), (602, 31267), (615, 31243), (622, 31237), (644, 31195), (762, 31057), (781, 31024), (791, 31000), (817, 30928), (836, 30901), (863, 30853), (874, 30826), (920, 30739), (927, 30730), (976, 30631), (1009, 30559),

(1013, 30550), (1020, 30535), (1023, 30529), (1077, 30415), (1099, 30376), (1102, 30370), (1128, 30334), (1131, 30331),

Gene: JulesRay_86 Start: 53717, Stop: 54937, Start Num: 295

Candidate Starts for JulesRay_86:

(Start: 295 @53717 has 213 MA's), (Start: 327 @53777 has 23 MA's), (328, 53780), (347, 53819), (359, 53843), (392, 53885), (413, 53927), (429, 53954), (433, 53960), (452, 53999), (455, 54005), (518, 54077), (578, 54140), (623, 54242), (639, 54272), (650, 54290), (671, 54323), (677, 54332), (717, 54398), (722, 54407), (725, 54410), (765, 54446), (773, 54455), (776, 54464), (781, 54476), (798, 54527), (799, 54530), (814, 54581), (819, 54590), (992, 54659), (1018, 54698), (1068, 54806), (1086, 54839), (1096, 54857),

Gene: Jumbo_57 Start: 53259, Stop: 51742, Start Num: 316

Candidate Starts for Jumbo_57:

(Start: 316 @53259 has 5 MA's), (385, 53163), (389, 53151), (Start: 395 @53136 has 1 MA's), (469, 53004), (480, 52980), (481, 52977), (486, 52944), (523, 52839), (536, 52818), (578, 52746), (599, 52689), (643, 52587), (665, 52557), (703, 52488), (774, 52395), (781, 52380), (793, 52344), (805, 52311), (814, 52281), (827, 52260), (883, 52218), (890, 52206), (933, 52131), (990, 52014), (1005, 51981), (1025, 51939), (1060, 51873), (1116, 51774), (1119, 51771),

Gene: Jumboset_29 Start: 22100, Stop: 23500, Start Num: 295

Candidate Starts for Jumboset_29:

(Start: 295 @22100 has 213 MA's), (328, 22163), (Start: 387 @22268 has 1 MA's), (388, 22271), (429, 22355), (452, 22388), (509, 22439), (512, 22445), (575, 22526), (577, 22529), (580, 22535), (590, 22571), (599, 22589), (601, 22592), (620, 22646), (650, 22697), (704, 22778), (719, 22805), (754, 22835), (761, 22844), (777, 22871), (788, 22904), (794, 22919), (817, 22973), (860, 22994), (865, 23006), (904, 23018), (1012, 23240), (1017, 23249), (1019, 23255), (1034, 23291), (1063, 23351), (1072, 23378), (1140, 23468),

Gene: JustBecause_122 Start: 81387, Stop: 79741, Start Num: 255

Candidate Starts for JustBecause_122:

(233, 81426), (Start: 255 @81387 has 9 MA's), (309, 81297), (321, 81279), (332, 81255), (341, 81237), (443, 81060), (514, 80958), (558, 80883), (561, 80880), (589, 80817), (763, 80547), (773, 80535), (798, 80463), (870, 80307), (898, 80247), (903, 80232), (946, 80145), (962, 80115), (979, 80073), (1005, 80013), (1056, 79917), (1057, 79914), (1129, 79785),

Gene: KBurrousTX_88 Start: 60191, Stop: 61936, Start Num: 160

Candidate Starts for KBurrousTX_88:

(113, 60035), (Start: 160 @60191 has 1 MA's), (201, 60278), (205, 60287), (Start: 209 @60299 has 2 MA's), (234, 60353), (251, 60380), (265, 60404), (324, 60503), (328, 60506), (362, 60572), (366, 60578), (385, 60605), (394, 60629), (430, 60683), (435, 60689), (527, 60809), (534, 60821), (538, 60827), (563, 60863), (578, 60887), (582, 60899), (596, 60938), (761, 61166), (787, 61214), (790, 61220), (793, 61226), (795, 61232), (812, 61283), (856, 61328), (893, 61406), (896, 61412), (907, 61439), (920, 61463), (933, 61487), (940, 61508), (980, 61592), (989, 61616), (995, 61634), (998, 61643), (1002, 61649), (1019, 61679), (1021, 61685), (1058, 61757), (1073, 61796), (1076, 61802), (1099, 61841), (1148, 61910),

Gene: KSunshine22_95 Start: 77618, Stop: 79462, Start Num: 71

Candidate Starts for KSunshine22_95:

(Start: 71 @77618 has 13 MA's), (169, 77891), (248, 77999), (Start: 293 @78065 has 5 MA's), (329, 78134), (333, 78143), (438, 78218), (601, 78527), (623, 78572), (665, 78632), (693, 78677), (730, 78734), (777, 78740), (788, 78773), (793, 78785), (797, 78797), (878, 78914), (881, 78920), (924, 78983), (947, 79022), (956, 79043), (993, 79127), (1040, 79220), (1054, 79244), (1147, 79412), (1149,

79415),

Gene: Kabluna_75 Start: 55961, Stop: 53874, Start Num: 35

Candidate Starts for Kabluna_75:

(Start: 35 @55961 has 35 MA's), (85, 55841), (Start: 98 @55796 has 1 MA's), (101, 55793), (198, 55538), (269, 55430), (Start: 306 @55376 has 28 MA's), (341, 55313), (394, 55223), (Start: 395 @55220 has 1 MA's), (Start: 408 @55196 has 1 MA's), (441, 55160), (542, 55022), (553, 55004), (562, 54995), (573, 54980), (627, 54857), (670, 54773), (688, 54746), (700, 54722), (777, 54623), (796, 54569), (819, 54515), (847, 54473), (876, 54434), (921, 54365), (939, 54332), (956, 54296), (977, 54251), (981, 54239), (1009, 54179), (1040, 54116), (1133, 53951), (1149, 53927),

Gene: Kabreeze_90 Start: 58778, Stop: 60523, Start Num: 158

Candidate Starts for Kabreeze_90:

(Start: 158 @58778 has 18 MA's), (168, 58799), (205, 58877), (214, 58901), (236, 58946), (251, 58970), (Start: 278 @59009 has 3 MA's), (366, 59168), (Start: 375 @59177 has 28 MA's), (394, 59219), (405, 59240), (430, 59273), (435, 59279), (438, 59282), (444, 59297), (452, 59312), (527, 59399), (534, 59411), (538, 59417), (563, 59453), (578, 59477), (582, 59489), (652, 59621), (710, 59705), (724, 59726), (741, 59738), (759, 59753), (761, 59756), (777, 59780), (787, 59804), (793, 59816), (812, 59873), (856, 59918), (885, 59984), (893, 59996), (898, 60005), (907, 60029), (909, 60032), (928, 60068), (932, 60074), (940, 60098), (980, 60179), (981, 60185), (989, 60203), (998, 60230), (1002, 60236), (1019, 60266), (1021, 60272), (1053, 60332), (1073, 60383), (1076, 60389), (1099, 60428),

Gene: Kale_40 Start: 30818, Stop: 29430, Start Num: 319

Candidate Starts for Kale_40:

(197, 31040), (Start: 319 @30818 has 153 MA's), (405, 30674), (Start: 408 @30668 has 1 MA's), (410, 30665), (471, 30551), (511, 30524), (547, 30464), (572, 30437), (577, 30434), (622, 30338), (644, 30296), (781, 30125), (790, 30104), (797, 30089), (817, 30029), (874, 29969), (927, 29873), (960, 29810), (982, 29756), (1023, 29672), (1024, 29666), (1031, 29654), (1066, 29579), (1077, 29558), (1109, 29504), (1112, 29501), (1128, 29477),

Gene: Kalizoi_29 Start: 22099, Stop: 23499, Start Num: 295

Candidate Starts for Kalizoi_29:

(Start: 295 @22099 has 213 MA's), (328, 22162), (Start: 387 @22267 has 1 MA's), (388, 22270), (429, 22354), (452, 22387), (509, 22438), (512, 22444), (575, 22525), (577, 22528), (580, 22534), (590, 22570), (599, 22588), (601, 22591), (620, 22645), (650, 22696), (704, 22777), (719, 22804), (754, 22834), (761, 22843), (777, 22870), (788, 22903), (794, 22918), (817, 22972), (860, 22993), (865, 23005), (904, 23017), (1012, 23239), (1017, 23248), (1019, 23254), (1034, 23290), (1063, 23350), (1072, 23377), (1140, 23467), (1156, 23491), (1158, 23494),

Gene: Kampe_58 Start: 50421, Stop: 48931, Start Num: 313

Candidate Starts for Kampe_58:

(Start: 313 @50421 has 5 MA's), (381, 50328), (385, 50319), (389, 50307), (Start: 395 @50292 has 1 MA's), (Start: 408 @50274 has 1 MA's), (444, 50217), (476, 50145), (477, 50142), (494, 50049), (507, 50016), (521, 49983), (523, 49980), (536, 49959), (580, 49890), (590, 49854), (628, 49767), (665, 49704), (666, 49701), (685, 49671), (723, 49599), (731, 49590), (805, 49467), (807, 49461), (933, 49329), (953, 49287), (978, 49242), (990, 49212), (1116, 48960),

Gene: KandZ_52 Start: 39857, Stop: 41800, Start Num: 65

Candidate Starts for KandZ_52:

(40, 39794), (Start: 65 @39857 has 24 MA's), (80, 39884), (104, 39956), (121, 40010), (140, 40070), (151, 40097), (174, 40148), (193, 40190), (219, 40226), (269, 40313), (329, 40406), (335, 40421), (347, 40442), (414, 40544), (438, 40577), (450, 40601), (512, 40661), (562, 40748), (596, 40823),

(652, 40913), (688, 40964), (690, 40967), (764, 41057), (777, 41075), (788, 41108), (814, 41174), (824, 41192), (865, 41255), (939, 41339), (992, 41456), (1009, 41504), (1040, 41567), (1078, 41651),

Gene: KannH_40 Start: 30803, Stop: 29415, Start Num: 319

Candidate Starts for KannH_40:

(39, 31454), (163, 31100), (197, 31025), (Start: 319 @30803 has 153 MA's), (405, 30659), (Start: 408 @30653 has 1 MA's), (410, 30650), (471, 30536), (511, 30509), (547, 30449), (572, 30422), (577, 30419), (622, 30323), (644, 30281), (781, 30110), (790, 30089), (797, 30074), (817, 30014), (874, 29954), (927, 29858), (960, 29795), (982, 29741), (1023, 29657), (1024, 29651), (1031, 29639), (1077, 29543), (1109, 29489), (1112, 29486), (1128, 29462),

Gene: Karate_39 Start: 25940, Stop: 27847, Start Num: 68

Candidate Starts for Karate_39:

(17, 25766), (Start: 68 @25940 has 36 MA's), (93, 26003), (106, 26024), (122, 26078), (191, 26240), (199, 26255), (229, 26300), (335, 26474), (339, 26483), (394, 26573), (Start: 395 @26576 has 1 MA's), (422, 26630), (543, 26816), (620, 26951), (624, 26963), (777, 27125), (824, 27242), (1010, 27554), (1037, 27614), (1080, 27704), (1097, 27734), (1126, 27776), (1163, 27827),

Gene: Kardashian_78 Start: 49852, Stop: 51051, Start Num: 295

Candidate Starts for Kardashian_78:

(Start: 295 @49852 has 213 MA's), (312, 49888), (399, 49996), (540, 50209), (578, 50248), (594, 50293), (650, 50398), (660, 50410), (671, 50431), (677, 50440), (698, 50479), (715, 50503), (781, 50584), (785, 50596), (795, 50626), (799, 50638), (805, 50656), (807, 50662), (814, 50686), (817, 50692), (1107, 50971), (1115, 50980), (1134, 51007),

Gene: Kardesai_80 Start: 46338, Stop: 47648, Start Num: 295

Candidate Starts for Kardesai_80:

(Start: 295 @46338 has 213 MA's), (578, 46776), (580, 46779), (587, 46806), (645, 46920), (677, 46968), (695, 46998), (722, 47043), (725, 47046), (776, 47100), (778, 47106), (779, 47109), (781, 47112), (785, 47124), (805, 47184), (807, 47190), (1009, 47310), (1089, 47475), (1138, 47547), (1162, 47583),

Gene: Kaseim_57 Start: 52044, Stop: 50632, Start Num: 375

Candidate Starts for Kaseim_57:

(177, 52392), (233, 52263), (Start: 290 @52173 has 3 MA's), (Start: 305 @52137 has 1 MA's), (Start: 375 @52044 has 28 MA's), (Start: 395 @51999 has 1 MA's), (443, 51909), (444, 51906), (448, 51900), (455, 51879), (483, 51816), (516, 51708), (525, 51690), (580, 51603), (583, 51588), (601, 51546), (635, 51465), (665, 51417), (690, 51375), (698, 51357), (700, 51354), (714, 51327), (758, 51276), (776, 51240), (794, 51189), (857, 51105), (867, 51084), (982, 50928), (985, 50922), (990, 50910), (1055, 50784), (1109, 50670),

Gene: KatChan_42 Start: 30536, Stop: 29130, Start Num: 319

Candidate Starts for KatChan_42:

(Start: 319 @30536 has 153 MA's), (336, 30506), (407, 30389), (Start: 408 @30386 has 1 MA's), (410, 30383), (443, 30323), (452, 30302), (471, 30260), (511, 30233), (572, 30146), (577, 30143), (590, 30101), (615, 30050), (727, 29888), (781, 29831), (805, 29771), (808, 29762), (811, 29750), (857, 29711), (869, 29684), (870, 29681), (874, 29675), (920, 29588), (929, 29576), (1009, 29408), (1013, 29399), (1020, 29384), (1023, 29378), (1024, 29372), (1031, 29360), (1093, 29237), (1106, 29213), (1128, 29183),

Gene: Kate_41 Start: 25943, Stop: 27850, Start Num: 68

Candidate Starts for Kate_41:

(Start: 68 @25943 has 36 MA's), (93, 26006), (106, 26027), (122, 26081), (199, 26258), (229, 26303), (335, 26477), (339, 26486), (394, 26576), (422, 26633), (543, 26819), (620, 26954), (624, 26966), (650, 26999), (777, 27128), (824, 27245), (888, 27320), (1009, 27554), (1010, 27557), (1037, 27617), (1080, 27707), (1097, 27737), (1126, 27779), (1163, 27830),

Gene: Katyusha_57 Start: 53319, Stop: 51616, Start Num: 206

Candidate Starts for Katyusha_57:

(Start: 206 @53319 has 9 MA's), (Start: 209 @53307 has 2 MA's), (Start: 316 @53124 has 5 MA's), (Start: 375 @53034 has 28 MA's), (381, 53025), (Start: 395 @52989 has 1 MA's), (Start: 408 @52965 has 1 MA's), (412, 52956), (416, 52947), (443, 52899), (453, 52875), (483, 52803), (484, 52800), (485, 52782), (498, 52743), (564, 52614), (583, 52575), (584, 52572), (590, 52554), (595, 52545), (601, 52533), (621, 52485), (635, 52452), (665, 52404), (679, 52380), (714, 52314), (776, 52215), (811, 52116), (814, 52107), (856, 52083), (857, 52080), (937, 51987), (951, 51963), (953, 51960), (982, 51903), (990, 51885), (1048, 51768), (1050, 51765), (1057, 51753), (1109, 51654), (1125, 51633),

Gene: Kauala_39 Start: 30568, Stop: 29171, Start Num: 315

Candidate Starts for Kauala_39:

(200, 30784), (226, 30715), (235, 30700), (271, 30640), (Start: 315 @30568 has 2 MA's), (Start: 323 @30556 has 8 MA's), (Start: 327 @30550 has 23 MA's), (339, 30520), (405, 30412), (Start: 408 @30406 has 1 MA's), (410, 30403), (416, 30388), (547, 30202), (577, 30172), (590, 30130), (622, 30076), (639, 30043), (781, 29863), (790, 29842), (797, 29827), (801, 29815), (805, 29803), (806, 29800), (820, 29764), (857, 29740), (866, 29722), (874, 29704), (960, 29542), (982, 29488), (1005, 29440), (1009, 29434), (1013, 29425), (1020, 29410), (1023, 29404), (1024, 29398), (1031, 29386), (1093, 29263), (1099, 29251),

Gene: Kavo_39 Start: 29315, Stop: 27930, Start Num: 314

Candidate Starts for Kavo_39:

(Start: 314 @29315 has 1 MA's), (405, 29171), (443, 29102), (471, 29039), (504, 29030), (508, 29018), (572, 28925), (577, 28922), (583, 28901), (590, 28880), (644, 28784), (781, 28613), (791, 28589), (797, 28577), (801, 28565), (805, 28553), (806, 28550), (811, 28532), (817, 28517), (874, 28457), (878, 28445), (883, 28433), (927, 28361), (940, 28331), (960, 28298), (1009, 28190), (1013, 28181), (1020, 28166), (1023, 28160), (1024, 28154), (1031, 28142), (1077, 28046), (1082, 28037), (1099, 28007), (1128, 27965),

Gene: KayGee_58 Start: 40792, Stop: 39314, Start Num: 277

Candidate Starts for KayGee_58:

(Start: 277 @40792 has 49 MA's), (312, 40729), (328, 40708), (330, 40702), (Start: 343 @40675 has 1 MA's), (379, 40621), (394, 40585), (401, 40570), (453, 40474), (456, 40465), (465, 40444), (532, 40378), (577, 40342), (596, 40288), (599, 40282), (602, 40276), (649, 40198), (661, 40183), (740, 40084), (788, 40009), (797, 39985), (801, 39973), (808, 39952), (812, 39937), (815, 39928), (830, 39907), (867, 39868), (870, 39859), (877, 39844), (907, 39793), (942, 39721), (964, 39679), (966, 39676), (971, 39661), (1013, 39565), (1036, 39514), (1055, 39484), (1066, 39451), (1097, 39394), (1106, 39379),

Gene: KeaneyLin_76 Start: 46024, Stop: 47334, Start Num: 295

Candidate Starts for KeaneyLin_76:

(Start: 295 @46024 has 213 MA's), (578, 46462), (587, 46492), (622, 46561), (645, 46606), (671, 46645), (677, 46654), (695, 46684), (722, 46729), (725, 46732), (776, 46786), (778, 46792), (781, 46798), (805, 46870), (814, 46900), (1009, 46996), (1079, 47143), (1089, 47161), (1138, 47233), (1162, 47269),

Gene: Kela_123 Start: 81267, Stop: 79621, Start Num: 255

Candidate Starts for Kela_123:

(233, 81306), (Start: 255 @81267 has 9 MA's), (309, 81177), (321, 81159), (332, 81135), (341, 81117), (443, 80940), (514, 80838), (558, 80763), (561, 80760), (589, 80697), (763, 80427), (773, 80415), (798, 80343), (870, 80187), (898, 80127), (903, 80112), (946, 80025), (962, 79995), (979, 79953), (1005, 79893), (1056, 79797), (1057, 79794), (1129, 79665),

Gene: KellyGreen_42 Start: 30800, Stop: 29412, Start Num: 319

Candidate Starts for KellyGreen_42:

(197, 31022), (Start: 319 @30800 has 153 MA's), (405, 30656), (Start: 408 @30650 has 1 MA's), (410, 30647), (471, 30533), (511, 30506), (547, 30446), (572, 30419), (577, 30416), (622, 30320), (644, 30278), (781, 30107), (790, 30086), (797, 30071), (801, 30059), (817, 30011), (874, 29951), (927, 29855), (960, 29792), (982, 29738), (1023, 29654), (1024, 29648), (1031, 29636), (1066, 29561), (1077, 29540), (1109, 29486), (1112, 29483), (1128, 29459),

Gene: Kelzog_61 Start: 52344, Stop: 50812, Start Num: 306

Candidate Starts for Kelzog_61:

(177, 52599), (201, 52548), (220, 52497), (248, 52443), (265, 52413), (Start: 290 @52380 has 3 MA's), (Start: 295 @52371 has 213 MA's), (Start: 306 @52344 has 28 MA's), (Start: 395 @52176 has 1 MA's), (416, 52134), (443, 52086), (449, 52074), (453, 52062), (455, 52056), (464, 52035), (479, 52008), (525, 51867), (580, 51780), (583, 51765), (587, 51753), (601, 51723), (622, 51672), (634, 51645), (665, 51594), (698, 51534), (700, 51531), (714, 51504), (747, 51462), (776, 51417), (783, 51399), (857, 51282), (865, 51267), (883, 51246), (937, 51189), (951, 51165), (982, 51105), (985, 51099), (988, 51093), (990, 51087), (1016, 51036), (1025, 51012), (1048, 50973), (1055, 50961), (1057, 50958), (1099, 50865), (1109, 50850), (1125, 50829),

Gene: Kenosha_85 Start: 54773, Stop: 55987, Start Num: 295

Candidate Starts for Kenosha_85:

(Start: 295 @54773 has 213 MA's), (299, 54779), (Start: 327 @54833 has 23 MA's), (328, 54836), (333, 54848), (358, 54896), (359, 54899), (392, 54941), (413, 54983), (433, 55016), (452, 55055), (518, 55133), (519, 55136), (578, 55196), (623, 55298), (639, 55328), (671, 55379), (677, 55388), (695, 55418), (698, 55427), (700, 55430), (715, 55451), (717, 55454), (722, 55463), (725, 55466), (760, 55493), (765, 55502), (776, 55520), (779, 55529), (781, 55532), (784, 55541), (798, 55583), (799, 55586), (807, 55610), (814, 55634), (865, 55664), (1018, 55751), (1068, 55859), (1093, 55904), (1096, 55910), (1115, 55937), (1138, 55970),

Gene: Kerry_86 Start: 53377, Stop: 54597, Start Num: 295

Candidate Starts for Kerry_86:

(Start: 295 @53377 has 213 MA's), (Start: 327 @53437 has 23 MA's), (328, 53440), (347, 53479), (359, 53503), (392, 53545), (413, 53587), (433, 53620), (452, 53659), (455, 53665), (509, 53716), (518, 53737), (578, 53800), (623, 53902), (639, 53932), (650, 53950), (671, 53983), (677, 53992), (717, 54058), (722, 54067), (725, 54070), (765, 54106), (773, 54115), (776, 54124), (781, 54136), (798, 54187), (799, 54190), (814, 54241), (819, 54250), (992, 54319), (1018, 54358), (1068, 54466), (1086, 54499), (1096, 54517), (1115, 54544),

Gene: KevinMinion_73 Start: 46637, Stop: 47884, Start Num: 294

Candidate Starts for KevinMinion_73:

(Start: 294 @46637 has 45 MA's), (Start: 384 @46799 has 1 MA's), (388, 46811), (413, 46865), (455, 46943), (519, 47018), (587, 47108), (590, 47117), (639, 47210), (677, 47270), (722, 47345), (781, 47414), (1096, 47789), (1107, 47807),

Gene: Kharcho_61 Start: 33998, Stop: 35899, Start Num: 107

Candidate Starts for Kharcho_61:

(77, 33905), (Start: 107 @33998 has 2 MA's), (Start: 130 @34085 has 2 MA's), (149, 34139), (170, 34190), (194, 34238), (204, 34262), (265, 34388), (Start: 272 @34397 has 1 MA's), (386, 34583), (405,

34625), (518, 34772), (538, 34793), (578, 34850), (586, 34874), (603, 34916), (622, 34952), (706, 35090), (783, 35192), (854, 35318), (866, 35342), (882, 35384), (1020, 35669), (1057, 35732), (1067, 35762), (1120, 35843), (1129, 35858),

Gene: KidneyBean_72 Start: 56536, Stop: 54470, Start Num: 35

Candidate Starts for KidneyBean_72:

(2, 57034), (5, 56833), (8, 56740), (9, 56728), (11, 56710), (Start: 35 @56536 has 35 MA's), (Start: 89 @56398 has 2 MA's), (96, 56374), (175, 56170), (198, 56125), (269, 56017), (339, 55903), (341, 55900), (394, 55810), (Start: 395 @55807 has 1 MA's), (441, 55747), (542, 55609), (553, 55591), (573, 55567), (627, 55444), (688, 55339), (777, 55213), (796, 55159), (865, 55033), (876, 55024), (885, 55000), (939, 54928), (942, 54922), (956, 54892), (981, 54835), (1009, 54775), (1040, 54712), (1078, 54631),

Gene: KimJongPhill_74 Start: 51796, Stop: 53328, Start Num: 260

Candidate Starts for KimJongPhill_74:

(111, 51421), (159, 51580), (165, 51595), (218, 51715), (Start: 260 @51796 has 3 MA's), (328, 51910), (330, 51916), (352, 51958), (355, 51964), (356, 51967), (359, 51973), (381, 52000), (389, 52021), (410, 52063), (433, 52105), (444, 52126), (451, 52141), (453, 52147), (454, 52150), (455, 52153), (571, 52294), (577, 52300), (596, 52354), (602, 52366), (615, 52390), (628, 52411), (649, 52444), (694, 52507), (697, 52516), (727, 52558), (799, 52675), (808, 52702), (811, 52714), (815, 52726), (817, 52729), (939, 52912), (953, 52942), (962, 52954), (964, 52960), (973, 52984), (1010, 53068), (1036, 53125), (1048, 53143), (1093, 53236), (1101, 53251), (1121, 53278),

Gene: Kimchi1738_73 Start: 52700, Stop: 50775, Start Num: 74

Candidate Starts for Kimchi1738_73:

(32, 52793), (Start: 74 @52700 has 16 MA's), (134, 52529), (153, 52475), (269, 52271), (365, 52115), (394, 52064), (Start: 395 @52061 has 1 MA's), (427, 52019), (548, 51857), (555, 51848), (777, 51491), (788, 51458), (888, 51272), (981, 51119), (1012, 51053), (1018, 51041), (1024, 51023), (1040, 50996), (1068, 50933), (1087, 50900), (1135, 50828),

Gene: KingBob_26 Start: 21732, Stop: 23129, Start Num: 295

Candidate Starts for KingBob_26:

(Start: 295 @21732 has 213 MA's), (328, 21792), (379, 21879), (Start: 387 @21897 has 1 MA's), (388, 21900), (429, 21984), (433, 21990), (452, 22017), (509, 22068), (512, 22074), (540, 22125), (547, 22134), (575, 22155), (580, 22164), (590, 22200), (601, 22221), (610, 22254), (620, 22275), (627, 22293), (630, 22299), (650, 22326), (660, 22338), (667, 22353), (704, 22407), (742, 22458), (754, 22464), (761, 22473), (764, 22479), (777, 22500), (788, 22533), (794, 22548), (797, 22557), (924, 22680), (942, 22719), (953, 22743), (961, 22755), (1009, 22863), (1012, 22869), (1017, 22878), (1019, 22884), (1034, 22920), (1072, 23007), (1140, 23097), (1156, 23121),

Gene: KingJulien_40 Start: 31269, Stop: 29878, Start Num: 319

Candidate Starts for KingJulien_40:

(157, 31557), (167, 31536), (Start: 319 @31269 has 153 MA's), (405, 31122), (Start: 408 @31116 has 1 MA's), (410, 31113), (443, 31053), (471, 30999), (511, 30972), (547, 30912), (572, 30885), (577, 30882), (622, 30786), (644, 30744), (781, 30573), (790, 30552), (874, 30417), (927, 30321), (982, 30204), (991, 30186), (1023, 30120), (1024, 30114), (1031, 30102), (1077, 30006), (1109, 29952), (1112, 29949), (1128, 29925), (1151, 29895),

Gene: Kinny_79 Start: 47912, Stop: 49159, Start Num: 294

Candidate Starts for Kinny_79:

(Start: 294 @47912 has 45 MA's), (333, 47990), (388, 48086), (413, 48140), (455, 48218), (587, 48383), (590, 48392), (677, 48545), (781, 48689), (1096, 49064), (1107, 49082),

Gene: Kittykat_25 Start: 20600, Stop: 21994, Start Num: 295

Candidate Starts for Kittykat_25:

(Start: 295 @20600 has 213 MA's), (328, 20657), (Start: 387 @20762 has 1 MA's), (388, 20765), (429, 20849), (452, 20882), (511, 20936), (512, 20939), (580, 21029), (590, 21065), (601, 21086), (610, 21119), (620, 21140), (704, 21272), (719, 21299), (761, 21338), (777, 21365), (788, 21398), (794, 21413), (797, 21422), (817, 21467), (866, 21503), (942, 21584), (953, 21608), (963, 21626), (969, 21638), (992, 21698), (1003, 21722), (1009, 21728), (1010, 21731), (1019, 21749), (1020, 21752), (1031, 21776), (1034, 21785), (1072, 21872), (1113, 21923), (1140, 21962),

Gene: Klimt_41 Start: 30834, Stop: 29413, Start Num: 319

Candidate Starts for Klimt_41:

(197, 31056), (Start: 319 @30834 has 153 MA's), (405, 30690), (Start: 408 @30684 has 1 MA's), (410, 30681), (471, 30567), (511, 30540), (547, 30480), (572, 30453), (577, 30450), (622, 30354), (644, 30312), (777, 30150), (781, 30141), (790, 30120), (801, 30093), (811, 30060), (817, 30045), (866, 29970), (874, 29952), (927, 29856), (960, 29793), (982, 29739), (1023, 29655), (1024, 29649), (1031, 29637), (1066, 29562), (1077, 29541), (1109, 29487), (1112, 29484), (1128, 29460),

Gene: Knox_41 Start: 31118, Stop: 29730, Start Num: 319

Candidate Starts for Knox_41:

(39, 31769), (163, 31415), (197, 31340), (Start: 319 @31118 has 153 MA's), (405, 30974), (Start: 408 @30968 has 1 MA's), (410, 30965), (471, 30851), (511, 30824), (547, 30764), (572, 30737), (577, 30734), (622, 30638), (644, 30596), (781, 30425), (790, 30404), (801, 30377), (817, 30329), (874, 30269), (960, 30110), (982, 30056), (1023, 29972), (1024, 29966), (1031, 29954), (1077, 29858), (1109, 29804), (1112, 29801), (1128, 29777),

Gene: Koji_39 Start: 30726, Stop: 29332, Start Num: 323

Candidate Starts for Koji_39:

(226, 30885), (252, 30840), (271, 30810), (Start: 305 @30756 has 1 MA's), (Start: 315 @30738 has 2 MA's), (Start: 323 @30726 has 8 MA's), (Start: 327 @30720 has 23 MA's), (339, 30690), (405, 30582), (Start: 408 @30576 has 1 MA's), (410, 30573), (416, 30558), (547, 30372), (554, 30363), (577, 30342), (590, 30300), (622, 30246), (781, 30033), (790, 30012), (797, 29997), (801, 29985), (806, 29970), (820, 29934), (857, 29910), (874, 29874), (876, 29868), (927, 29775), (960, 29712), (972, 29685), (1005, 29610), (1009, 29604), (1013, 29595), (1020, 29580), (1023, 29574), (1024, 29568), (1031, 29556), (1093, 29433), (1099, 29421), (1152, 29346),

Gene: Konstantine_65 Start: 46884, Stop: 48941, Start Num: 51

Candidate Starts for Konstantine_65:

(Start: 51 @46884 has 11 MA's), (85, 46944), (86, 46947), (119, 47040), (124, 47052), (129, 47073), (177, 47196), (179, 47199), (182, 47208), (199, 47241), (208, 47262), (225, 47310), (251, 47352), (Start: 297 @47415 has 15 MA's), (Start: 306 @47436 has 28 MA's), (310, 47442), (Start: 342 @47496 has 7 MA's), (453, 47682), (457, 47694), (470, 47712), (509, 47727), (512, 47733), (688, 48051), (690, 48054), (716, 48099), (773, 48150), (777, 48162), (810, 48252), (814, 48264), (835, 48297), (851, 48321), (856, 48330), (942, 48420), (958, 48453), (1008, 48564), (1009, 48567), (1010, 48570), (1012, 48573), (1037, 48627), (1068, 48693), (1078, 48711), (1171, 48888),

Gene: Korra_30 Start: 22105, Stop: 23505, Start Num: 295

Candidate Starts for Korra_30:

(Start: 295 @22105 has 213 MA's), (328, 22168), (Start: 387 @22273 has 1 MA's), (388, 22276), (429, 22360), (452, 22393), (509, 22444), (512, 22450), (575, 22531), (577, 22534), (580, 22540), (590, 22576), (599, 22594), (601, 22597), (610, 22630), (620, 22651), (650, 22702), (704, 22783), (719, 22810), (754, 22840), (761, 22849), (777, 22876), (788, 22909), (794, 22924), (817, 22978), (860, 22999), (865, 23011), (904, 23023), (963, 23137), (1012, 23245), (1017, 23254), (1019, 23260), (1034, 23296), (1063, 23356), (1072, 23383), (1140, 23473),

Gene: Kors_42 Start: 26688, Stop: 28622, Start Num: 72

Candidate Starts for Kors_42:

(13, 26448), (Start: 30 @26592 has 1 MA's), (66, 26682), (Start: 72 @26688 has 6 MA's), (122, 26835), (127, 26853), (129, 26862), (199, 27012), (283, 27138), (335, 27228), (339, 27237), (388, 27312), (394, 27327), (415, 27369), (431, 27399), (519, 27531), (624, 27717), (637, 27735), (650, 27750), (688, 27807), (726, 27867), (798, 27939), (881, 28077), (926, 28143), (940, 28173), (977, 28251), (1010, 28329), (1037, 28389), (1080, 28479), (1092, 28497), (1164, 28605),

Gene: Kouch_41 Start: 30803, Stop: 29415, Start Num: 319

Candidate Starts for Kouch_41:

(197, 31025), (Start: 319 @30803 has 153 MA's), (405, 30659), (Start: 408 @30653 has 1 MA's), (410, 30650), (471, 30536), (511, 30509), (547, 30449), (572, 30422), (577, 30419), (622, 30323), (644, 30281), (781, 30110), (790, 30089), (797, 30074), (817, 30014), (874, 29954), (927, 29858), (960, 29795), (982, 29741), (1023, 29657), (1024, 29651), (1031, 29639), (1077, 29543), (1109, 29489), (1112, 29486), (1128, 29462),

Gene: Kovu_95 Start: 56142, Stop: 57803, Start Num: 185

Candidate Starts for Kovu_95:

(133, 56019), (148, 56058), (Start: 185 @56142 has 9 MA's), (216, 56202), (261, 56289), (262, 56292), (361, 56463), (372, 56475), (443, 56595), (460, 56631), (500, 56655), (518, 56688), (531, 56700), (550, 56736), (555, 56742), (586, 56790), (603, 56832), (677, 56952), (717, 57015), (755, 57048), (775, 57078), (783, 57099), (796, 57132), (806, 57165), (852, 57222), (866, 57249), (882, 57291), (909, 57348), (921, 57372), (939, 57402), (948, 57420), (963, 57447), (975, 57474), (1006, 57549), (1020, 57576), (1046, 57624), (1053, 57636), (1062, 57657), (1065, 57666), (1067, 57669), (1082, 57696), (1086, 57702), (1101, 57729), (1122, 57756), (1129, 57768), (1132, 57771), (1136, 57777),

Gene: Kradal_124 Start: 82180, Stop: 80537, Start Num: 255

Candidate Starts for Kradal_124:

(Start: 255 @82180 has 9 MA's), (271, 82156), (332, 82048), (393, 81943), (413, 81904), (443, 81853), (510, 81760), (540, 81700), (558, 81676), (561, 81673), (578, 81646), (618, 81553), (712, 81400), (729, 81376), (731, 81373), (763, 81340), (773, 81328), (798, 81256), (830, 81178), (856, 81133), (925, 80986), (946, 80941), (962, 80911), (974, 80881), (979, 80869), (1009, 80803), (1056, 80713), (1057, 80710), (1105, 80614), (1110, 80608), (1129, 80581),

Gene: Krampus_40 Start: 25943, Stop: 27850, Start Num: 68

Candidate Starts for Krampus_40:

(17, 25769), (Start: 68 @25943 has 36 MA's), (93, 26006), (106, 26027), (122, 26081), (191, 26243), (199, 26258), (229, 26303), (335, 26477), (339, 26486), (394, 26576), (415, 26618), (422, 26633), (543, 26819), (620, 26954), (624, 26966), (650, 26999), (777, 27128), (824, 27245), (888, 27320), (1009, 27554), (1010, 27557), (1037, 27617), (1080, 27707), (1097, 27737), (1126, 27779), (1163, 27830),

Gene: Kureo_137 Start: 72086, Stop: 73330, Start Num: 294

Candidate Starts for Kureo_137:

(Start: 294 @72086 has 45 MA's), (312, 72125), (Start: 318 @72134 has 13 MA's), (388, 72260), (413, 72314), (578, 72527), (587, 72557), (622, 72626), (677, 72719), (773, 72842), (781, 72863), (784, 72872), (805, 72935), (807, 72941), (1009, 73061), (1012, 73067), (1047, 73136), (1068, 73187), (1096, 73238), (1107, 73256),

Gene: Kurt_72 Start: 56722, Stop: 54656, Start Num: 35

Candidate Starts for Kurt_72:

(2, 57220), (5, 57019), (8, 56926), (9, 56914), (11, 56896), (Start: 35 @56722 has 35 MA's), (Start: 89 @56584 has 2 MA's), (96, 56560), (175, 56356), (198, 56311), (269, 56203), (339, 56089), (341, 56086), (394, 55996), (Start: 395 @55993 has 1 MA's), (441, 55933), (542, 55795), (553, 55777), (573, 55753), (627, 55630), (688, 55525), (777, 55399), (796, 55345), (865, 55219), (876, 55210), (885, 55186), (939, 55114), (942, 55108), (956, 55078), (981, 55021), (1009, 54961), (1040, 54898), (1078, 54817),

Gene: Kurt1_41 Start: 31114, Stop: 29726, Start Num: 319

Candidate Starts for Kurt1_41:

(39, 31765), (163, 31411), (197, 31336), (Start: 319 @31114 has 153 MA's), (405, 30970), (Start: 408 @30964 has 1 MA's), (410, 30961), (471, 30847), (511, 30820), (547, 30760), (572, 30733), (577, 30730), (622, 30634), (644, 30592), (777, 30430), (781, 30421), (790, 30400), (797, 30385), (801, 30373), (817, 30325), (874, 30265), (927, 30169), (960, 30106), (982, 30052), (1023, 29968), (1024, 29962), (1031, 29950), (1077, 29854), (1109, 29800), (1112, 29797), (1128, 29773),

Gene: Kvothe_56 Start: 53206, Stop: 51515, Start Num: 209

Candidate Starts for Kvothe_56:

(Start: 206 @53218 has 9 MA's), (Start: 209 @53206 has 2 MA's), (Start: 316 @53023 has 5 MA's), (Start: 375 @52933 has 28 MA's), (381, 52924), (Start: 395 @52888 has 1 MA's), (Start: 408 @52864 has 1 MA's), (412, 52855), (416, 52846), (443, 52798), (453, 52774), (483, 52702), (485, 52681), (496, 52645), (498, 52642), (564, 52513), (568, 52510), (583, 52474), (584, 52471), (590, 52453), (595, 52444), (601, 52432), (621, 52384), (635, 52351), (665, 52303), (679, 52279), (714, 52213), (776, 52114), (811, 52015), (814, 52006), (856, 51982), (857, 51979), (937, 51886), (951, 51862), (953, 51859), (982, 51802), (990, 51784), (1048, 51667), (1050, 51664), (1057, 51652), (1109, 51553), (1125, 51532),

Gene: Labella_35 Start: 23381, Stop: 24808, Start Num: 298

Candidate Starts for Labella_35:

(270, 23339), (Start: 298 @23381 has 19 MA's), (464, 23699), (547, 23801), (583, 23846), (590, 23867), (740, 24134), (777, 24182), (785, 24203), (808, 24260), (821, 24293), (903, 24329), (944, 24407), (953, 24428), (991, 24509), (992, 24512), (1034, 24599), (1043, 24611), (1061, 24650), (1072, 24686), (1082, 24704), (1134, 24767),

Gene: Labelle_76 Start: 49171, Stop: 51204, Start Num: 54

Candidate Starts for Labelle_76:

(Start: 54 @49171 has 3 MA's), (78, 49195), (Start: 94 @49258 has 4 MA's), (122, 49324), (138, 49375), (139, 49378), (182, 49486), (199, 49519), (225, 49558), (241, 49582), (283, 49645), (Start: 297 @49663 has 15 MA's), (299, 49666), (Start: 306 @49684 has 28 MA's), (310, 49690), (351, 49759), (371, 49786), (380, 49798), (399, 49831), (453, 49933), (548, 50056), (573, 50086), (620, 50191), (627, 50209), (687, 50299), (688, 50302), (738, 50404), (761, 50443), (773, 50470), (777, 50482), (794, 50530), (802, 50548), (810, 50575), (814, 50587), (819, 50596), (942, 50734), (965, 50779), (1008, 50884), (1068, 51013), (1087, 51046), (1097, 51064), (1135, 51118), (1160, 51157),

Gene: LadyJasley_54 Start: 43617, Stop: 41323, Start Num: 50

Candidate Starts for LadyJasley_54:

(45, 43629), (Start: 50 @43617 has 1 MA's), (63, 43590), (84, 43545), (115, 43449), (138, 43368), (162, 43305), (211, 43197), (232, 43149), (Start: 278 @43077 has 3 MA's), (Start: 282 @43071 has 2 MA's), (373, 42909), (399, 42855), (400, 42852), (451, 42747), (456, 42732), (471, 42702), (476, 42690), (487, 42630), (489, 42618), (506, 42552), (509, 42546), (546, 42471), (593, 42384), (622, 42330), (711, 42168), (734, 42129), (785, 42036), (787, 42027), (889, 41877), (958, 41757), (1000, 41652), (1036, 41562), (1042, 41556), (1099, 41433),

Gene: Lahirium_57 Start: 53124, Stop: 51712, Start Num: 375

Candidate Starts for Lahirium_57:

(177, 53472), (233, 53343), (Start: 290 @53253 has 3 MA's), (Start: 375 @53124 has 28 MA's), (Start: 395 @53079 has 1 MA's), (443, 52989), (444, 52986), (448, 52980), (455, 52959), (483, 52896), (516, 52788), (525, 52770), (580, 52683), (583, 52668), (601, 52626), (635, 52545), (665, 52497), (690, 52455), (698, 52437), (700, 52434), (714, 52407), (758, 52356), (776, 52320), (794, 52269), (857, 52185), (867, 52164), (982, 52008), (985, 52002), (990, 51990), (1055, 51864), (1109, 51750),

Gene: Lakshmi_29 Start: 22120, Stop: 23511, Start Num: 295

Candidate Starts for Lakshmi_29:

(Start: 295 @22120 has 213 MA's), (Start: 343 @22207 has 1 MA's), (Start: 387 @22279 has 1 MA's), (388, 22282), (418, 22345), (419, 22348), (429, 22366), (433, 22372), (452, 22399), (512, 22456), (540, 22507), (543, 22513), (547, 22516), (580, 22546), (590, 22582), (599, 22600), (610, 22636), (620, 22657), (627, 22675), (650, 22708), (681, 22747), (704, 22789), (719, 22816), (742, 22840), (775, 22876), (777, 22882), (788, 22915), (794, 22930), (797, 22939), (817, 22984), (865, 23017), (866, 23020), (944, 23104), (953, 23125), (961, 23137), (969, 23155), (1009, 23245), (1019, 23266), (1020, 23269), (1031, 23293), (1034, 23302), (1072, 23389), (1113, 23440), (1140, 23479), (1156, 23503),

Gene: Lambo_58 Start: 40249, Stop: 42159, Start Num: 58

Candidate Starts for Lambo_58:

(Start: 55 @40246 has 13 MA's), (Start: 58 @40249 has 23 MA's), (Start: 76 @40261 has 2 MA's), (Start: 89 @40309 has 2 MA's), (Start: 103 @40342 has 1 MA's), (172, 40528), (177, 40543), (219, 40609), (269, 40696), (Start: 297 @40729 has 15 MA's), (340, 40810), (346, 40819), (352, 40828), (457, 41002), (460, 41008), (509, 41035), (562, 41128), (577, 41149), (580, 41155), (583, 41170), (590, 41191), (620, 41248), (627, 41266), (652, 41302), (679, 41344), (716, 41404), (788, 41500), (790, 41503), (951, 41731), (992, 41821), (1009, 41857), (1012, 41863), (1037, 41917), (1059, 41956), (1112, 42058), (1123, 42073), (1137, 42094),

Gene: Laroye_95 Start: 55108, Stop: 56772, Start Num: 185

Candidate Starts for Laroye_95:

(Start: 185 @55108 has 9 MA's), (216, 55171), (244, 55231), (265, 55267), (Start: 295 @55312 has 213 MA's), (361, 55432), (421, 55525), (438, 55549), (443, 55561), (471, 55615), (531, 55666), (550, 55702), (577, 55729), (586, 55756), (603, 55798), (677, 55915), (728, 55993), (755, 56011), (783, 56062), (796, 56095), (806, 56128), (852, 56185), (866, 56212), (882, 56254), (909, 56311), (921, 56335), (939, 56365), (948, 56383), (963, 56410), (1006, 56512), (1020, 56539), (1024, 56551), (1062, 56620), (1065, 56629), (1067, 56632), (1082, 56659), (1086, 56665), (1109, 56701), (1122, 56716), (1132, 56731), (1147, 56752),

Gene: LastNadiia_40 Start: 28701, Stop: 26893, Start Num: 75

Candidate Starts for LastNadiia_40:

(Start: 75 @28701 has 19 MA's), (90, 28641), (174, 28440), (241, 28323), (248, 28311), (Start: 302 @28227 has 13 MA's), (438, 28089), (530, 27903), (583, 27810), (590, 27789), (596, 27777), (693, 27618), (700, 27603), (777, 27555), (814, 27486), (818, 27480), (828, 27465), (875, 27426), (878, 27417), (919, 27363), (920, 27360), (933, 27342), (940, 27324), (942, 27321), (1013, 27168), (1027, 27135), (1044, 27108), (1056, 27087), (1063, 27060), (1114, 26970), (1149, 26919),

Gene: Lauer_52 Start: 41675, Stop: 40197, Start Num: 277

Candidate Starts for Lauer_52:

(Start: 277 @41675 has 49 MA's), (312, 41612), (330, 41585), (Start: 343 @41558 has 1 MA's), (379, 41504), (388, 41483), (401, 41453), (456, 41348), (465, 41327), (532, 41261), (577, 41225), (596, 41171), (599, 41165), (602, 41159), (649, 41081), (661, 41066), (740, 40967), (788, 40892), (797, 40868), (801, 40856), (808, 40835), (812, 40820), (815, 40811), (830, 40790), (867, 40751), (870, 40742), (907, 40676), (942, 40604), (964, 40562), (966, 40559), (971, 40544), (1013, 40448), (1036,

40397), (1055, 40367), (1066, 40334), (1097, 40277), (1106, 40262),

Gene: Laure_105 Start: 73569, Stop: 75428, Start Num: 71

Candidate Starts for Laure_105:

(Start: 71 @73569 has 13 MA's), (150, 73788), (155, 73809), (169, 73830), (172, 73836), (208, 73869), (239, 73938), (248, 73953), (263, 73980), (276, 73995), (284, 74007), (Start: 297 @74028 has 15 MA's), (328, 74085), (337, 74109), (475, 74256), (497, 74268), (590, 74460), (665, 74586), (693, 74631), (701, 74649), (716, 74670), (730, 74688), (777, 74694), (788, 74727), (793, 74739), (805, 74766), (811, 74787), (819, 74805), (878, 74871), (879, 74874), (920, 74931), (956, 75000), (991, 75078), (993, 75084), (994, 75087), (1054, 75201), (1104, 75309), (1144, 75366),

Gene: LavAbarElk_60 Start: 40030, Stop: 41943, Start Num: 58

Candidate Starts for LavAbarElk_60:

(18, 39904), (21, 39913), (24, 39925), (33, 39958), (Start: 55 @40027 has 13 MA's), (Start: 58 @40030 has 23 MA's), (Start: 76 @40042 has 2 MA's), (Start: 89 @40090 has 2 MA's), (Start: 103 @40123 has 1 MA's), (125, 40192), (155, 40282), (172, 40309), (175, 40318), (219, 40390), (Start: 297 @40510 has 15 MA's), (331, 40573), (Start: 387 @40663 has 1 MA's), (401, 40690), (509, 40819), (519, 40843), (542, 40885), (562, 40912), (577, 40933), (583, 40954), (590, 40975), (620, 41032), (627, 41050), (652, 41086), (679, 41128), (716, 41188), (788, 41284), (790, 41287), (951, 41515), (992, 41605), (1009, 41641), (1012, 41647), (1037, 41701), (1059, 41740), (1112, 41842), (1123, 41857), (1137, 41878),

Gene: LazerLemon_42 Start: 31529, Stop: 32923, Start Num: 302

Candidate Starts for LazerLemon_42:

(244, 31445), (Start: 302 @31529 has 13 MA's), (Start: 318 @31562 has 13 MA's), (339, 31607), (353, 31631), (381, 31661), (383, 31664), (Start: 387 @31676 has 1 MA's), (440, 31766), (454, 31790), (547, 31901), (595, 31976), (610, 32021), (633, 32072), (634, 32075), (647, 32096), (740, 32237), (764, 32264), (777, 32285), (785, 32306), (808, 32363), (817, 32390), (821, 32396), (827, 32405), (912, 32447), (942, 32513), (944, 32516), (953, 32537), (963, 32555), (971, 32573), (992, 32627), (1034, 32714), (1036, 32717), (1061, 32765), (1074, 32804), (1082, 32819), (1138, 32888), (1150, 32906), (1156, 32915),

Gene: Leafus_40 Start: 31402, Stop: 30011, Start Num: 319

Candidate Starts for Leafus_40:

(Start: 243 @31516 has 1 MA's), (Start: 302 @31432 has 13 MA's), (Start: 319 @31402 has 153 MA's), (405, 31255), (Start: 408 @31249 has 1 MA's), (410, 31246), (471, 31132), (511, 31105), (547, 31045), (572, 31018), (577, 31015), (622, 30919), (644, 30877), (781, 30706), (790, 30685), (801, 30658), (874, 30550), (927, 30454), (982, 30337), (991, 30319), (1023, 30253), (1024, 30247), (1031, 30235), (1077, 30139), (1109, 30085), (1112, 30082), (1128, 30058), (1151, 30028),

Gene: Leathea_79 Start: 45971, Stop: 47212, Start Num: 294

Candidate Starts for Leathea_79:

(Start: 294 @45971 has 45 MA's), (388, 46145), (413, 46199), (455, 46277), (587, 46442), (590, 46451), (677, 46604), (781, 46748), (1096, 47123), (1107, 47141), (1154, 47201),

Gene: Lederberg_45 Start: 37131, Stop: 38507, Start Num: 342

Candidate Starts for Lederberg_45:

(Start: 342 @37131 has 7 MA's), (Start: 387 @37200 has 1 MA's), (394, 37218), (444, 37311), (471, 37371), (500, 37377), (502, 37380), (574, 37500), (582, 37518), (642, 37635), (755, 37773), (780, 37812), (793, 37845), (795, 37851), (800, 37866), (811, 37905), (864, 37965), (875, 37989), (897, 38025), (940, 38094), (944, 38100), (982, 38181), (1026, 38277), (1033, 38289), (1039, 38301), (1064, 38358), (1067, 38364), (1073, 38376), (1091, 38406), (1125, 38457),

Gene: LeeroyJenkins_95 Start: 51345, Stop: 49888, Start Num: 293

Candidate Starts for LeeroyJenkins_95:

(Start: 293 @51345 has 5 MA's), (Start: 294 @51342 has 45 MA's), (Start: 305 @51315 has 1 MA's), (371, 51201), (414, 51117), (443, 51069), (460, 51027), (506, 50991), (517, 50967), (565, 50895), (569, 50889), (576, 50877), (585, 50850), (594, 50829), (631, 50754), (641, 50736), (699, 50640), (707, 50631), (785, 50526), (808, 50496), (809, 50493), (810, 50487), (814, 50475), (815, 50472), (853, 50412), (860, 50403), (906, 50313), (936, 50259), (954, 50223), (1005, 50142), (1006, 50139), (1010, 50136), (1015, 50127), (1054, 50049), (1057, 50043), (1095, 49965), (1108, 49944), (1127, 49917), (1130, 49914),

Gene: LeoJr_100 Start: 80857, Stop: 82713, Start Num: 71

Candidate Starts for LeoJr_100:

(Start: 71 @80857 has 13 MA's), (169, 81130), (248, 81235), (Start: 322 @81358 has 4 MA's), (329, 81370), (333, 81379), (448, 81475), (497, 81550), (519, 81610), (601, 81763), (623, 81808), (665, 81868), (693, 81913), (730, 81970), (777, 81976), (788, 82009), (793, 82021), (797, 82033), (878, 82150), (879, 82153), (920, 82210), (940, 82246), (947, 82258), (956, 82279), (993, 82363), (1040, 82456), (1054, 82480), (1147, 82648), (1149, 82651),

Gene: Leopard_64 Start: 46071, Stop: 48014, Start Num: 65

Candidate Starts for Leopard_64:

(Start: 65 @46071 has 24 MA's), (79, 46092), (87, 46122), (Start: 120 @46221 has 3 MA's), (140, 46284), (172, 46356), (175, 46365), (199, 46413), (369, 46686), (372, 46689), (459, 46851), (512, 46887), (548, 46959), (555, 46968), (580, 47001), (601, 47058), (606, 47070), (652, 47139), (660, 47148), (672, 47166), (688, 47190), (773, 47286), (777, 47298), (788, 47331), (807, 47373), (841, 47436), (922, 47541), (1024, 47757), (1037, 47781), (1040, 47784), (1060, 47826), (1071, 47856), (1087, 47880), (1166, 47997),

Gene: Lewando_79 Start: 47409, Stop: 48656, Start Num: 294

Candidate Starts for Lewando_79:

(Start: 294 @47409 has 45 MA's), (333, 47487), (388, 47583), (413, 47637), (455, 47715), (519, 47790), (587, 47880), (590, 47889), (677, 48042), (722, 48117), (781, 48186), (1096, 48561), (1107, 48579), (1154, 48645),

Gene: LiSara_92 Start: 55240, Stop: 56904, Start Num: 185

Candidate Starts for LiSara_92:

(Start: 185 @55240 has 9 MA's), (216, 55303), (244, 55363), (265, 55399), (Start: 295 @55444 has 213 MA's), (361, 55564), (421, 55657), (438, 55681), (443, 55693), (471, 55747), (531, 55798), (550, 55834), (577, 55861), (586, 55888), (603, 55930), (677, 56047), (728, 56125), (755, 56143), (783, 56194), (796, 56227), (806, 56260), (852, 56317), (866, 56344), (882, 56386), (909, 56443), (921, 56467), (939, 56497), (948, 56515), (963, 56542), (1006, 56644), (1020, 56671), (1024, 56683), (1062, 56752), (1065, 56761), (1082, 56791), (1086, 56797), (1109, 56833), (1122, 56848), (1132, 56863), (1147, 56884),

Gene: LibertyBell_74 Start: 46467, Stop: 47684, Start Num: 295

Candidate Starts for LibertyBell_74:

(Start: 295 @46467 has 213 MA's), (Start: 303 @46482 has 4 MA's), (Start: 318 @46512 has 13 MA's), (353, 46581), (392, 46599), (400, 46614), (452, 46710), (455, 46716), (474, 46746), (518, 46788), (540, 46821), (547, 46827), (587, 46881), (639, 46983), (677, 47043), (680, 47049), (701, 47088), (781, 47187), (798, 47238), (806, 47262), (824, 47307), (909, 47319), (978, 47325), (1086, 47538), (1148, 47631), (1161, 47652),

Gene: Librie_40 Start: 29071, Stop: 27644, Start Num: 319

Candidate Starts for Librie_40:

(Start: 319 @29071 has 153 MA's), (336, 29041), (339, 29035), (Start: 408 @28921 has 1 MA's), (410, 28918), (572, 28681), (577, 28678), (727, 28423), (778, 28372), (781, 28366), (801, 28318), (811, 28285), (817, 28270), (863, 28198), (874, 28171), (877, 28162), (903, 28117), (905, 28111), (920, 28084), (960, 28012), (991, 27940), (1009, 27904), (1013, 27895), (1020, 27880), (1023, 27874), (1031, 27856), (1055, 27814), (1082, 27751), (1123, 27688), (1128, 27679),

Gene: Lidong_57 Start: 52859, Stop: 51447, Start Num: 375

Candidate Starts for Lidong_57:

(177, 53207), (233, 53078), (Start: 290 @52988 has 3 MA's), (Start: 375 @52859 has 28 MA's), (Start: 395 @52814 has 1 MA's), (443, 52724), (444, 52721), (448, 52715), (455, 52694), (483, 52631), (503, 52553), (516, 52523), (525, 52505), (580, 52418), (583, 52403), (601, 52361), (635, 52280), (665, 52232), (690, 52190), (698, 52172), (700, 52169), (714, 52142), (758, 52091), (776, 52055), (794, 52004), (857, 51920), (867, 51899), (982, 51743), (985, 51737), (990, 51725), (1055, 51599), (1109, 51485),

Gene: Lifes_86 Start: 48144, Stop: 46666, Start Num: 293

Candidate Starts for Lifes_86:

(Start: 293 @48144 has 5 MA's), (299, 48135), (310, 48114), (Start: 395 @47964 has 1 MA's), (442, 47880), (451, 47859), (576, 47685), (579, 47679), (600, 47625), (641, 47547), (697, 47454), (772, 47379), (797, 47337), (815, 47289), (836, 47259), (860, 47220), (868, 47199), (872, 47187), (931, 47082), (935, 47067), (941, 47055), (955, 47025), (991, 46953), (1010, 46917), (1032, 46869), (1040, 46854), (1052, 46836), (1057, 46824), (1068, 46791), (1108, 46725), (1118, 46713), (1130, 46695), (1139, 46683),

Gene: LilHuddy_77 Start: 48206, Stop: 49438, Start Num: 294

Candidate Starts for LilHuddy_77:

(Start: 294 @48206 has 45 MA's), (Start: 297 @48212 has 15 MA's), (Start: 318 @48251 has 13 MA's), (388, 48377), (455, 48509), (518, 48581), (578, 48644), (587, 48674), (623, 48746), (677, 48836), (680, 48842), (700, 48878), (781, 48980), (1036, 49241), (1060, 49286), (1096, 49358),

Gene: LilStuart_25 Start: 20568, Stop: 21962, Start Num: 295

Candidate Starts for LilStuart_25:

(Start: 295 @20568 has 213 MA's), (328, 20625), (Start: 387 @20730 has 1 MA's), (388, 20733), (429, 20817), (452, 20850), (509, 20901), (512, 20907), (575, 20988), (577, 20991), (580, 20997), (590, 21033), (599, 21051), (601, 21054), (610, 21087), (620, 21108), (704, 21240), (719, 21267), (761, 21306), (775, 21327), (777, 21333), (788, 21366), (794, 21381), (797, 21390), (817, 21435), (866, 21471), (924, 21513), (953, 21576), (963, 21594), (1009, 21696), (1010, 21699), (1019, 21717), (1020, 21720), (1031, 21744), (1034, 21753), (1072, 21840), (1140, 21930), (1156, 21954), (1158, 21957),

Gene: LilTerminator_40 Start: 29093, Stop: 27666, Start Num: 319

Candidate Starts for LilTerminator_40:

(Start: 319 @29093 has 153 MA's), (336, 29063), (339, 29057), (Start: 408 @28943 has 1 MA's), (410, 28940), (411, 28937), (508, 28796), (572, 28703), (577, 28700), (727, 28445), (778, 28394), (781, 28388), (801, 28340), (805, 28328), (811, 28307), (874, 28193), (877, 28184), (903, 28139), (905, 28133), (920, 28106), (960, 28034), (991, 27962), (1009, 27926), (1013, 27917), (1020, 27902), (1023, 27896), (1031, 27878), (1055, 27836), (1082, 27773), (1128, 27701),

Gene: Lila22_61 Start: 41200, Stop: 43113, Start Num: 58

Candidate Starts for Lila22_61:

(Start: 55 @41197 has 13 MA's), (Start: 58 @41200 has 23 MA's), (Start: 76 @41212 has 2 MA's), (Start: 89 @41260 has 2 MA's), (Start: 103 @41293 has 1 MA's), (172, 41479), (177, 41494), (219, 41560), (269, 41647), (Start: 295 @41677 has 213 MA's), (Start: 297 @41680 has 15 MA's), (331, 41743), (340, 41761), (346, 41770), (Start: 387 @41833 has 1 MA's), (401, 41860), (509, 41989), (519,

42013), (542, 42055), (577, 42103), (583, 42124), (590, 42145), (620, 42202), (652, 42256), (679, 42298), (716, 42358), (788, 42454), (790, 42457), (915, 42634), (951, 42685), (992, 42775), (1009, 42811), (1012, 42817), (1037, 42871), (1059, 42910), (1112, 43012), (1123, 43027), (1137, 43048),

Gene: LilyPad_52 Start: 37853, Stop: 39895, Start Num: 74

Candidate Starts for LilyPad_52:

(Start: 74 @37853 has 16 MA's), (125, 38006), (144, 38066), (199, 38180), (219, 38204), (266, 38288), (Start: 297 @38324 has 15 MA's), (401, 38492), (405, 38498), (414, 38519), (468, 38606), (562, 38717), (583, 38759), (590, 38780), (627, 38855), (688, 38939), (698, 38960), (709, 38975), (735, 39020), (736, 39023), (739, 39035), (743, 39041), (746, 39044), (749, 39077), (769, 39131), (774, 39152), (785, 39182), (788, 39194), (800, 39227), (829, 39296), (865, 39353), (905, 39401), (939, 39446), (951, 39473), (1018, 39620), (1049, 39680), (1068, 39728), (1078, 39749), (1114, 39806), (1126, 39824), (1137, 39839), (1164, 39881),

Gene: Linayshia_33 Start: 23433, Stop: 24860, Start Num: 298

Candidate Starts for Linayshia_33:

(267, 23391), (Start: 298 @23433 has 19 MA's), (511, 23790), (547, 23853), (583, 23898), (590, 23919), (740, 24186), (777, 24234), (785, 24255), (794, 24282), (807, 24309), (808, 24312), (817, 24339), (821, 24345), (903, 24381), (944, 24459), (953, 24480), (963, 24498), (969, 24510), (1009, 24594), (1034, 24651), (1043, 24663), (1061, 24702), (1072, 24738), (1075, 24744),

Gene: Linda_74 Start: 46139, Stop: 47368, Start Num: 295

Candidate Starts for Linda_74:

(Start: 295 @46139 has 213 MA's), (388, 46310), (455, 46442), (578, 46577), (587, 46607), (614, 46664), (677, 46769), (680, 46775), (698, 46808), (781, 46913), (993, 47093), (1107, 47306), (1140, 47351),

Gene: Linetti_59 Start: 53022, Stop: 51613, Start Num: 375

Candidate Starts for Linetti_59:

(177, 53400), (201, 53349), (220, 53298), (248, 53244), (265, 53214), (Start: 290 @53181 has 3 MA's), (Start: 295 @53172 has 213 MA's), (Start: 306 @53145 has 28 MA's), (Start: 375 @53022 has 28 MA's), (Start: 395 @52977 has 1 MA's), (416, 52935), (443, 52887), (444, 52884), (448, 52878), (449, 52875), (453, 52863), (455, 52857), (472, 52821), (479, 52809), (480, 52806), (516, 52686), (525, 52668), (564, 52605), (580, 52581), (583, 52566), (601, 52524), (634, 52446), (665, 52395), (698, 52335), (700, 52332), (705, 52323), (714, 52305), (747, 52263), (776, 52218), (857, 52083), (865, 52068), (883, 52047), (951, 51966), (953, 51963), (982, 51906), (985, 51900), (990, 51888), (1016, 51837), (1022, 51822), (1025, 51813), (1048, 51774), (1055, 51762), (1099, 51666), (1109, 51651),

Gene: Linus_90 Start: 59226, Stop: 60971, Start Num: 158

Candidate Starts for Linus_90:

(Start: 158 @59226 has 18 MA's), (168, 59247), (205, 59325), (214, 59349), (236, 59394), (251, 59418), (Start: 278 @59457 has 3 MA's), (366, 59616), (Start: 375 @59625 has 28 MA's), (394, 59667), (405, 59688), (430, 59721), (435, 59727), (438, 59730), (444, 59745), (452, 59760), (527, 59847), (534, 59859), (538, 59865), (563, 59901), (578, 59925), (582, 59937), (652, 60069), (710, 60153), (724, 60174), (741, 60186), (759, 60201), (761, 60204), (777, 60228), (787, 60252), (793, 60264), (812, 60321), (856, 60366), (885, 60432), (893, 60444), (898, 60453), (907, 60477), (909, 60480), (928, 60516), (932, 60522), (940, 60546), (980, 60627), (981, 60633), (989, 60651), (998, 60678), (1002, 60684), (1019, 60714), (1021, 60720), (1053, 60780), (1073, 60831), (1076, 60837), (1099, 60876),

Gene: Litotes_29 Start: 22115, Stop: 23509, Start Num: 295

Candidate Starts for Litotes_29:

(Start: 295 @22115 has 213 MA's), (328, 22172), (Start: 387 @22277 has 1 MA's), (429, 22364), (511, 22451), (512, 22454), (580, 22544), (590, 22580), (595, 22589), (599, 22598), (620, 22655), (627, 22673), (650, 22706), (660, 22718), (704, 22787), (719, 22814), (742, 22838), (777, 22880), (788, 22913), (794, 22928), (797, 22937), (904, 23027), (940, 23096), (953, 23123), (963, 23141), (969, 23153), (1009, 23243), (1012, 23249), (1017, 23258), (1019, 23264), (1034, 23300), (1072, 23387), (1113, 23438), (1117, 23444), (1140, 23477), (1156, 23501),

Gene: LittleFella_57 Start: 39855, Stop: 41873, Start Num: 71

Candidate Starts for LittleFella_57:

(Start: 71 @39855 has 13 MA's), (136, 40053), (139, 40062), (140, 40065), (152, 40095), (172, 40137), (175, 40146), (222, 40224), (226, 40236), (269, 40305), (Start: 297 @40338 has 15 MA's), (299, 40341), (405, 40521), (450, 40602), (468, 40629), (555, 40734), (583, 40776), (590, 40797), (688, 40956), (700, 40980), (735, 41037), (736, 41040), (743, 41058), (750, 41097), (771, 41157), (774, 41169), (781, 41187), (785, 41199), (792, 41220), (837, 41307), (855, 41310), (856, 41313), (905, 41379), (939, 41424), (951, 41451), (992, 41544), (1024, 41619), (1030, 41631), (1037, 41643), (1044, 41652), (1049, 41661), (1068, 41709), (1078, 41727), (1114, 41784), (1137, 41817), (1165, 41856),

Gene: Lizz_70 Start: 50158, Stop: 48272, Start Num: 61

Candidate Starts for Lizz_70:

(Start: 38 @50218 has 1 MA's), (Start: 61 @50158 has 8 MA's), (73, 50143), (93, 50080), (97, 50071), (106, 50059), (137, 49966), (161, 49903), (170, 49885), (199, 49828), (219, 49804), (312, 49645), (335, 49606), (339, 49597), (402, 49489), (462, 49381), (542, 49276), (595, 49177), (624, 49117), (687, 49030), (688, 49027), (788, 48922), (792, 48913), (796, 48901), (865, 48802), (951, 48685), (958, 48673), (971, 48646), (1010, 48556), (1018, 48541), (1044, 48487), (1068, 48430), (1149, 48304),

Gene: Lizzo_59 Start: 52326, Stop: 50794, Start Num: 306

Candidate Starts for Lizzo_59:

(177, 52581), (201, 52530), (220, 52479), (248, 52425), (265, 52395), (Start: 290 @52362 has 3 MA's), (Start: 295 @52353 has 213 MA's), (Start: 306 @52326 has 28 MA's), (Start: 395 @52158 has 1 MA's), (416, 52116), (443, 52068), (449, 52056), (453, 52044), (455, 52038), (464, 52017), (479, 51990), (525, 51849), (580, 51762), (583, 51747), (587, 51735), (601, 51705), (622, 51654), (634, 51627), (665, 51576), (679, 51552), (690, 51534), (698, 51516), (700, 51513), (714, 51486), (747, 51444), (776, 51399), (857, 51264), (865, 51249), (883, 51228), (937, 51171), (951, 51147), (982, 51087), (985, 51081), (988, 51075), (990, 51069), (1016, 51018), (1025, 50994), (1048, 50955), (1055, 50943), (1057, 50940), (1099, 50847), (1109, 50832), (1125, 50811),

Gene: Lollipop1437_76 Start: 57598, Stop: 55541, Start Num: 35

Candidate Starts for Lollipop1437_76:

(6, 57886), (10, 57778), (Start: 35 @57598 has 35 MA's), (182, 57223), (251, 57115), (Start: 275 @57082 has 1 MA's), (Start: 306 @57031 has 28 MA's), (339, 56971), (341, 56968), (Start: 387 @56896 has 1 MA's), (394, 56878), (441, 56815), (443, 56809), (454, 56782), (520, 56716), (542, 56677), (553, 56659), (573, 56635), (627, 56512), (645, 56479), (688, 56416), (777, 56293), (805, 56224), (810, 56206), (876, 56101), (879, 56092), (921, 56032), (942, 55993), (956, 55963), (981, 55906), (1009, 55846), (1023, 55816), (1040, 55783), (1133, 55618),

Gene: LongHai_51 Start: 39283, Stop: 37772, Start Num: 250

Candidate Starts for LongHai_51:

(Start: 250 @39283 has 2 MA's), (279, 39247), (329, 39157), (330, 39154), (355, 39106), (394, 39037), (453, 38929), (578, 38794), (596, 38743), (599, 38737), (602, 38731), (615, 38707), (649, 38653), (772, 38512), (773, 38509), (793, 38452), (796, 38443), (815, 38380), (817, 38377), (940, 38182), (964, 38137), (1009, 38032), (1036, 37972), (1047, 37957), (1131, 37804), (1146, 37783),

Gene: LordBart_42 Start: 26597, Stop: 28531, Start Num: 72

Candidate Starts for LordBart_42:

(13, 26357), (Start: 30 @26501 has 1 MA's), (66, 26591), (Start: 72 @26597 has 6 MA's), (122, 26744), (127, 26762), (199, 26921), (335, 27137), (339, 27146), (394, 27236), (415, 27278), (431, 27308), (519, 27440), (624, 27626), (637, 27644), (650, 27659), (688, 27716), (726, 27776), (798, 27848), (881, 27986), (926, 28052), (940, 28082), (942, 28085), (977, 28160), (1010, 28238), (1037, 28298), (1080, 28388), (1092, 28406),

Gene: Loretta_75 Start: 48327, Stop: 49514, Start Num: 318

Candidate Starts for Loretta_75:

(312, 48318), (Start: 318 @48327 has 13 MA's), (388, 48453), (519, 48660), (578, 48720), (587, 48750), (677, 48912), (700, 48954), (776, 49044), (781, 49056), (992, 49236), (1036, 49317), (1060, 49362), (1096, 49434), (1107, 49452),

Gene: Lovelyunicorn_41 Start: 31119, Stop: 29731, Start Num: 319

Candidate Starts for Lovelyunicorn_41:

(39, 31770), (163, 31416), (197, 31341), (Start: 319 @31119 has 153 MA's), (405, 30975), (Start: 408 @30969 has 1 MA's), (410, 30966), (471, 30852), (511, 30825), (547, 30765), (572, 30738), (577, 30735), (622, 30639), (644, 30597), (781, 30426), (790, 30405), (801, 30378), (817, 30330), (874, 30270), (960, 30111), (982, 30057), (1023, 29973), (1024, 29967), (1031, 29955), (1077, 29859), (1109, 29805), (1112, 29802), (1128, 29778),

Gene: Lucky3_39 Start: 30647, Stop: 29256, Start Num: 323

Candidate Starts for Lucky3_39:

(Start: 323 @30647 has 8 MA's), (Start: 327 @30644 has 23 MA's), (339, 30614), (405, 30506), (410, 30497), (441, 30443), (508, 30362), (547, 30296), (577, 30266), (592, 30221), (622, 30170), (777, 29966), (781, 29957), (797, 29918), (801, 29906), (805, 29894), (806, 29891), (820, 29855), (826, 29846), (857, 29831), (874, 29795), (878, 29783), (883, 29771), (927, 29696), (960, 29636), (1009, 29528), (1013, 29519), (1020, 29504), (1023, 29498), (1024, 29492), (1152, 29270),

Gene: LuckyBarnes_64 Start: 49560, Stop: 48223, Start Num: 348

Candidate Starts for LuckyBarnes_64:

(268, 49698), (Start: 305 @49635 has 1 MA's), (Start: 348 @49560 has 1 MA's), (391, 49485), (394, 49479), (417, 49449), (445, 49401), (453, 49383), (500, 49344), (534, 49290), (580, 49221), (607, 49149), (650, 49083), (706, 49002), (780, 48915), (786, 48897), (789, 48891), (793, 48882), (817, 48807), (875, 48735), (919, 48648), (932, 48633), (940, 48609), (942, 48606), (944, 48603), (1051, 48384), (1064, 48345), (1065, 48342), (1088, 48300), (1111, 48264),

Gene: LuckyLeo_57 Start: 40044, Stop: 41966, Start Num: 55

Candidate Starts for LuckyLeo_57:

(19, 39927), (25, 39948), (31, 39969), (41, 39999), (Start: 51 @40032 has 11 MA's), (Start: 55 @40044 has 13 MA's), (Start: 58 @40047 has 23 MA's), (Start: 76 @40062 has 2 MA's), (81, 40077), (Start: 89 @40110 has 2 MA's), (Start: 103 @40143 has 1 MA's), (105, 40146), (119, 40194), (125, 40212), (155, 40302), (166, 40320), (172, 40329), (175, 40338), (219, 40410), (Start: 297 @40530 has 15 MA's), (299, 40533), (331, 40593), (340, 40611), (Start: 387 @40683 has 1 MA's), (401, 40710), (512, 40845), (519, 40863), (542, 40905), (555, 40926), (562, 40932), (583, 40974), (590, 40995), (601, 41016), (620, 41052), (679, 41151), (687, 41160), (716, 41211), (788, 41307), (790, 41310), (861, 41421), (915, 41487), (939, 41511), (951, 41538), (1027, 41706), (1037, 41724), (1053, 41748), (1059, 41763), (1060, 41769), (1078, 41811), (1087, 41826), (1112, 41865), (1123, 41880), (1137, 41901), (1168, 41958),

Gene: Lucy_25 Start: 20556, Stop: 21950, Start Num: 295

Candidate Starts for Lucy_25:

(Start: 295 @20556 has 213 MA's), (328, 20613), (Start: 387 @20718 has 1 MA's), (388, 20721), (429, 20805), (452, 20838), (512, 20895), (575, 20976), (577, 20979), (580, 20985), (590, 21021), (599, 21039), (601, 21042), (610, 21075), (620, 21096), (650, 21147), (704, 21228), (719, 21255), (761, 21294), (775, 21315), (777, 21321), (788, 21354), (794, 21369), (808, 21396), (817, 21423), (866, 21459), (953, 21564), (963, 21582), (1009, 21684), (1010, 21687), (1019, 21705), (1020, 21708), (1031, 21732), (1034, 21741), (1072, 21828), (1113, 21879), (1115, 21882), (1140, 21918), (1156, 21942),

Gene: LucySwiss_73 Start: 47512, Stop: 48744, Start Num: 294

Candidate Starts for LucySwiss_73:

(Start: 292 @47506 has 28 MA's), (Start: 294 @47512 has 45 MA's), (299, 47521), (312, 47551), (Start: 318 @47560 has 13 MA's), (358, 47638), (388, 47686), (455, 47818), (518, 47890), (578, 47953), (587, 47983), (622, 48052), (677, 48145), (680, 48151), (700, 48187), (781, 48289), (1013, 48496), (1036, 48547), (1041, 48553), (1047, 48562), (1057, 48580), (1060, 48592), (1061, 48595), (1096, 48664), (1107, 48682),

Gene: Ludgate_41 Start: 31117, Stop: 29729, Start Num: 319

Candidate Starts for Ludgate_41:

(197, 31339), (Start: 319 @31117 has 153 MA's), (405, 30973), (Start: 408 @30967 has 1 MA's), (410, 30964), (471, 30850), (511, 30823), (547, 30763), (572, 30736), (577, 30733), (622, 30637), (644, 30595), (781, 30424), (790, 30403), (797, 30388), (801, 30376), (817, 30328), (874, 30268), (927, 30172), (960, 30109), (982, 30055), (1023, 29971), (1024, 29965), (1031, 29953), (1066, 29878), (1077, 29857), (1109, 29803), (1112, 29800), (1128, 29776),

Gene: Luker_58 Start: 53170, Stop: 51665, Start Num: 305

Candidate Starts for Luker_58:

(177, 53425), (233, 53296), (Start: 290 @53206 has 3 MA's), (Start: 305 @53170 has 1 MA's), (Start: 375 @53077 has 28 MA's), (Start: 395 @53032 has 1 MA's), (443, 52942), (444, 52939), (448, 52933), (455, 52912), (483, 52849), (516, 52741), (525, 52723), (580, 52636), (583, 52621), (601, 52579), (635, 52498), (665, 52450), (690, 52408), (698, 52390), (700, 52387), (714, 52360), (758, 52309), (776, 52273), (794, 52222), (857, 52138), (867, 52117), (982, 51961), (985, 51955), (990, 51943), (1055, 51817), (1109, 51703),

Gene: Luna18_42 Start: 30536, Stop: 29130, Start Num: 319

Candidate Starts for Luna18_42:

(Start: 319 @30536 has 153 MA's), (336, 30506), (407, 30389), (Start: 408 @30386 has 1 MA's), (410, 30383), (443, 30323), (452, 30302), (471, 30260), (511, 30233), (572, 30146), (577, 30143), (590, 30101), (615, 30050), (727, 29888), (781, 29831), (805, 29771), (808, 29762), (811, 29750), (857, 29711), (869, 29684), (870, 29681), (874, 29675), (920, 29588), (929, 29576), (1009, 29408), (1013, 29399), (1020, 29384), (1023, 29378), (1024, 29372), (1031, 29360), (1093, 29237), (1106, 29213), (1128, 29183),

Gene: Lupine_78 Start: 49414, Stop: 47891, Start Num: 292

Candidate Starts for Lupine_78:

(159, 49675), (177, 49633), (Start: 292 @49414 has 28 MA's), (347, 49303), (374, 49264), (383, 49255), (429, 49159), (451, 49117), (457, 49099), (511, 49045), (535, 49000), (592, 48895), (661, 48772), (683, 48736), (707, 48697), (767, 48631), (781, 48604), (787, 48586), (798, 48556), (819, 48496), (840, 48466), (848, 48454), (850, 48448), (1010, 48139), (1019, 48121), (1037, 48079), (1042, 48073), (1053, 48055), (1054, 48052),

Gene: Luthien_87 Start: 55097, Stop: 56311, Start Num: 295

Candidate Starts for Luthien_87:

(Start: 295 @55097 has 213 MA's), (299, 55103), (Start: 327 @55157 has 23 MA's), (333, 55172), (347, 55199), (349, 55202), (359, 55223), (392, 55265), (413, 55307), (433, 55340), (452, 55379), (518, 55457), (519, 55460), (578, 55520), (623, 55622), (639, 55652), (657, 55679), (671, 55703), (677, 55712), (695, 55742), (698, 55751), (700, 55754), (717, 55778), (720, 55784), (725, 55790), (760, 55817), (765, 55826), (776, 55844), (779, 55853), (781, 55856), (784, 55865), (799, 55910), (807, 55934), (814, 55958), (865, 55988), (910, 56003), (1018, 56075), (1068, 56183), (1096, 56234), (1115, 56261), (1138, 56294),

Gene: Lyell_84 Start: 49739, Stop: 48219, Start Num: 292

Candidate Starts for Lyell_84:

(265, 49772), (Start: 292 @49739 has 28 MA's), (Start: 305 @49706 has 1 MA's), (Start: 315 @49688 has 2 MA's), (383, 49580), (412, 49514), (449, 49448), (535, 49325), (541, 49310), (578, 49253), (590, 49220), (592, 49217), (623, 49154), (653, 49103), (661, 49094), (665, 49085), (686, 49055), (697, 49031), (723, 48992), (745, 48977), (781, 48926), (787, 48908), (840, 48788), (865, 48743), (1019, 48449), (1032, 48419), (1057, 48374), (1077, 48323), (1120, 48260),

Gene: Lymara_87 Start: 57699, Stop: 59444, Start Num: 158

Candidate Starts for Lymara_87:

(113, 57546), (Start: 158 @57699 has 18 MA's), (168, 57720), (205, 57798), (214, 57822), (236, 57867), (Start: 278 @57930 has 3 MA's), (366, 58089), (Start: 375 @58098 has 28 MA's), (385, 58116), (394, 58140), (405, 58161), (430, 58194), (435, 58200), (527, 58320), (534, 58332), (538, 58338), (563, 58374), (582, 58410), (602, 58461), (652, 58542), (759, 58674), (761, 58677), (777, 58701), (787, 58725), (793, 58737), (804, 58773), (812, 58794), (856, 58839), (885, 58905), (893, 58917), (898, 58926), (905, 58947), (907, 58950), (928, 58989), (932, 58995), (940, 59019), (980, 59100), (981, 59106), (989, 59124), (998, 59151), (1002, 59157), (1019, 59187), (1021, 59193), (1053, 59253), (1058, 59265), (1073, 59304), (1076, 59310), (1099, 59349),

Gene: MAnor_58 Start: 41147, Stop: 39669, Start Num: 277

Candidate Starts for MAnor_58:

(Start: 250 @41174 has 2 MA's), (Start: 277 @41147 has 49 MA's), (312, 41084), (330, 41057), (Start: 343 @41030 has 1 MA's), (379, 40976), (388, 40955), (389, 40952), (394, 40940), (401, 40925), (Start: 408 @40913 has 1 MA's), (456, 40820), (577, 40697), (596, 40643), (599, 40637), (602, 40631), (649, 40553), (661, 40538), (740, 40439), (794, 40349), (797, 40340), (801, 40328), (808, 40307), (812, 40292), (815, 40283), (830, 40262), (867, 40223), (870, 40214), (877, 40199), (903, 40157), (940, 40079), (942, 40076), (964, 40034), (971, 40016), (1013, 39920), (1036, 39869), (1055, 39839), (1066, 39806), (1097, 39749), (1106, 39734),

Gene: MCubed_40 Start: 30968, Stop: 29556, Start Num: 327

Candidate Starts for MCubed_40:

(Start: 323 @30971 has 8 MA's), (Start: 327 @30968 has 23 MA's), (339, 30938), (Start: 343 @30932 has 1 MA's), (364, 30899), (471, 30707), (511, 30680), (547, 30620), (572, 30593), (577, 30590), (590, 30548), (622, 30494), (644, 30452), (727, 30338), (781, 30281), (790, 30260), (797, 30245), (801, 30233), (805, 30221), (806, 30218), (811, 30200), (857, 30119), (874, 30083), (903, 30029), (925, 29987), (940, 29957), (948, 29942), (953, 29933), (957, 29927), (977, 29885), (1009, 29816), (1020, 29792), (1023, 29786), (1024, 29780), (1031, 29768), (1077, 29672), (1082, 29663), (1093, 29645), (1099, 29633), (1102, 29627), (1131, 29588),

Gene: MScarn_57 Start: 38763, Stop: 37285, Start Num: 277

Candidate Starts for MScarn_57:

(Start: 277 @38763 has 49 MA's), (328, 38676), (330, 38670), (356, 38619), (388, 38568), (394, 38553), (443, 38469), (453, 38445), (456, 38436), (577, 38313), (596, 38259), (599, 38253), (602, 38247), (649, 38169), (740, 38055), (772, 38028), (781, 38004), (808, 37923), (815, 37899), (830, 37878), (867, 37839), (875, 37821), (877, 37815), (939, 37704), (942, 37698), (964, 37656), (971,

37638), (1009, 37551), (1013, 37542), (1023, 37521), (1036, 37491), (1055, 37461), (1066, 37428), (1099, 37368), (1121, 37338),

Gene: MaVan_49 Start: 37938, Stop: 36448, Start Num: 277

Candidate Starts for MaVan_49:

(Start: 277 @37938 has 49 MA's), (330, 37848), (Start: 343 @37821 has 1 MA's), (370, 37779), (394, 37731), (Start: 408 @37704 has 1 MA's), (453, 37623), (454, 37620), (456, 37614), (465, 37593), (532, 37527), (596, 37437), (602, 37425), (639, 37362), (649, 37347), (661, 37332), (762, 37215), (772, 37206), (799, 37128), (808, 37101), (811, 37089), (815, 37077), (857, 37038), (867, 37017), (868, 37014), (875, 36999), (907, 36927), (940, 36858), (964, 36813), (981, 36768), (988, 36753), (998, 36723), (1013, 36699), (1036, 36648), (1055, 36618), (1085, 36552), (1097, 36528), (1121, 36495), (1146, 36459),

Gene: MacGully_81 Start: 56374, Stop: 54335, Start Num: 37

Candidate Starts for MacGully_81:

(Start: 37 @56374 has 1 MA's), (64, 56305), (69, 56299), (199, 55975), (222, 55951), (269, 55870), (Start: 275 @55867 has 1 MA's), (335, 55765), (339, 55756), (356, 55726), (394, 55660), (444, 55588), (512, 55519), (548, 55447), (583, 55390), (688, 55210), (700, 55186), (751, 55123), (777, 55087), (805, 55018), (807, 55012), (810, 55000), (921, 54826), (1023, 54604), (1040, 54571), (1060, 54529), (1071, 54499), (1078, 54490), (1093, 54466), (1097, 54457), (1126, 54415),

Gene: Maco6_48 Start: 38222, Stop: 36711, Start Num: 250

Candidate Starts for Maco6_48:

(Start: 250 @38222 has 2 MA's), (279, 38186), (329, 38096), (330, 38093), (355, 38045), (394, 37976), (455, 37862), (578, 37733), (596, 37682), (599, 37676), (602, 37670), (615, 37646), (649, 37592), (772, 37451), (773, 37448), (793, 37391), (815, 37319), (817, 37316), (933, 37142), (940, 37121), (964, 37076), (1009, 36971), (1036, 36911), (1131, 36743), (1146, 36722),

Gene: Madamoto_80 Start: 49054, Stop: 50238, Start Num: 295

Candidate Starts for Madamoto_80:

(Start: 295 @49054 has 213 MA's), (Start: 318 @49099 has 13 MA's), (333, 49129), (452, 49294), (455, 49300), (587, 49474), (677, 49636), (698, 49675), (701, 49681), (781, 49780), (795, 49822), (799, 49834), (807, 49858), (814, 49882), (817, 49888), (909, 49912), (978, 49918), (1036, 50032), (1079, 50119), (1086, 50131), (1089, 50137), (1107, 50167), (1115, 50176),

Gene: Madi_50 Start: 36692, Stop: 38746, Start Num: 74

Candidate Starts for Madi_50:

(Start: 74 @36692 has 16 MA's), (82, 36716), (106, 36779), (131, 36863), (144, 36905), (266, 37127), (Start: 297 @37163 has 15 MA's), (337, 37238), (359, 37277), (Start: 395 @37319 has 1 MA's), (405, 37337), (414, 37358), (421, 37370), (456, 37430), (468, 37445), (509, 37463), (548, 37541), (562, 37556), (564, 37559), (583, 37598), (590, 37619), (650, 37721), (688, 37778), (698, 37799), (700, 37802), (709, 37814), (736, 37862), (737, 37868), (749, 37916), (759, 37949), (770, 37973), (774, 37991), (785, 38021), (833, 38144), (856, 38177), (863, 38189), (876, 38204), (905, 38243), (939, 38288), (951, 38315), (990, 38399), (1018, 38462), (1037, 38504), (1044, 38513), (1049, 38522), (1068, 38570), (1071, 38579), (1078, 38591), (1087, 38606), (1114, 38648),

Gene: Madruga_74 Start: 48812, Stop: 50845, Start Num: 54

Candidate Starts for Madruga_74:

(27, 48722), (Start: 54 @48812 has 3 MA's), (78, 48836), (Start: 94 @48899 has 4 MA's), (122, 48965), (138, 49016), (139, 49019), (182, 49127), (199, 49160), (225, 49199), (241, 49223), (283, 49286), (Start: 297 @49304 has 15 MA's), (Start: 306 @49325 has 28 MA's), (310, 49331), (351, 49400), (371, 49427), (380, 49439), (399, 49472), (453, 49574), (548, 49697), (573, 49727), (620, 49832), (627, 49850), (687, 49940), (688, 49943), (738, 50045), (761, 50084), (773, 50111), (777, 50123), (794,

50171), (802, 50189), (810, 50216), (814, 50228), (819, 50237), (942, 50375), (965, 50420), (1008, 50525), (1068, 50654), (1087, 50687), (1097, 50705), (1135, 50759), (1160, 50798),

Gene: Madvan_85 Start: 54003, Stop: 55217, Start Num: 295

Candidate Starts for Madvan_85:

(Start: 295 @54003 has 213 MA's), (299, 54009), (Start: 327 @54063 has 23 MA's), (328, 54066), (333, 54078), (358, 54126), (359, 54129), (392, 54171), (413, 54213), (433, 54246), (452, 54285), (518, 54363), (519, 54366), (578, 54426), (623, 54528), (639, 54558), (645, 54570), (671, 54609), (677, 54618), (695, 54648), (698, 54657), (700, 54660), (717, 54684), (725, 54696), (760, 54723), (765, 54732), (776, 54750), (779, 54759), (781, 54762), (784, 54771), (799, 54816), (807, 54840), (814, 54864), (910, 54909), (1009, 54963), (1012, 54969), (1018, 54981), (1068, 55089), (1096, 55140), (1115, 55167), (1138, 55200),

Gene: MaeLinda_41 Start: 31118, Stop: 29730, Start Num: 319

Candidate Starts for MaeLinda_41:

(163, 31415), (197, 31340), (Start: 319 @31118 has 153 MA's), (405, 30974), (Start: 408 @30968 has 1 MA's), (410, 30965), (471, 30851), (511, 30824), (547, 30764), (572, 30737), (577, 30734), (580, 30728), (622, 30638), (644, 30596), (781, 30425), (797, 30389), (801, 30377), (811, 30344), (817, 30329), (874, 30269), (960, 30110), (982, 30056), (1023, 29972), (1024, 29966), (1031, 29954), (1077, 29858), (1109, 29804), (1112, 29801), (1128, 29777),

Gene: Magel_88 Start: 53566, Stop: 54786, Start Num: 295

Candidate Starts for Magel_88:

(Start: 295 @53566 has 213 MA's), (Start: 327 @53626 has 23 MA's), (328, 53629), (347, 53668), (359, 53692), (392, 53734), (413, 53776), (433, 53809), (452, 53848), (455, 53854), (509, 53905), (518, 53926), (578, 53989), (623, 54091), (639, 54121), (650, 54139), (671, 54172), (677, 54181), (717, 54247), (722, 54256), (725, 54259), (765, 54295), (773, 54304), (776, 54313), (781, 54325), (798, 54376), (799, 54379), (814, 54430), (819, 54439), (992, 54508), (1018, 54547), (1068, 54655), (1086, 54688), (1096, 54706), (1115, 54733),

Gene: Magritte_46 Start: 45422, Stop: 47152, Start Num: 260

Candidate Starts for Magritte_46:

(Start: 260 @45422 has 3 MA's), (271, 45440), (383, 45632), (423, 45725), (447, 45767), (458, 45797), (473, 45827), (501, 45839), (528, 45893), (529, 45896), (583, 45992), (590, 46013), (609, 46055), (628, 46097), (664, 46160), (702, 46226), (719, 46256), (765, 46313), (843, 46502), (864, 46535), (913, 46631), (916, 46637), (926, 46658), (973, 46763), (976, 46769), (1024, 46904), (1041, 46937), (1066, 46994), (1099, 47063),

Gene: MajinBuu_87 Start: 55364, Stop: 56578, Start Num: 295

Candidate Starts for MajinBuu_87:

(Start: 295 @55364 has 213 MA's), (299, 55370), (Start: 327 @55424 has 23 MA's), (328, 55427), (333, 55439), (347, 55466), (349, 55469), (359, 55490), (392, 55532), (413, 55574), (433, 55607), (518, 55724), (519, 55727), (578, 55787), (623, 55889), (639, 55919), (671, 55970), (677, 55979), (698, 56018), (700, 56021), (717, 56045), (720, 56051), (725, 56057), (765, 56093), (776, 56111), (779, 56120), (781, 56123), (784, 56132), (798, 56174), (807, 56201), (814, 56225), (865, 56255), (1018, 56342), (1096, 56501), (1115, 56528),

Gene: Makai_75 Start: 48472, Stop: 49704, Start Num: 294

Candidate Starts for Makai_75:

(Start: 294 @48472 has 45 MA's), (Start: 297 @48478 has 15 MA's), (Start: 302 @48484 has 13 MA's), (Start: 318 @48517 has 13 MA's), (385, 48634), (388, 48643), (455, 48775), (518, 48847), (578, 48910), (587, 48940), (645, 49054), (677, 49102), (680, 49108), (700, 49144), (781, 49246), (1036, 49507), (1057, 49540), (1060, 49552), (1061, 49555), (1096, 49624),

Gene: Makima_38 Start: 27813, Stop: 26014, Start Num: 75

Candidate Starts for Makima_38:

(Start: 75 @27813 has 19 MA's), (90, 27756), (118, 27693), (241, 27438), (248, 27426), (Start: 302 @27342 has 13 MA's), (438, 27204), (513, 27054), (530, 27018), (549, 26982), (583, 26928), (590, 26907), (679, 26757), (693, 26736), (730, 26679), (777, 26673), (807, 26628), (814, 26604), (818, 26598), (834, 26574), (875, 26544), (878, 26535), (933, 26460), (940, 26442), (942, 26439), (1013, 26286), (1044, 26226), (1063, 26178), (1147, 26040), (1149, 26037),

Gene: Makoto_25 Start: 20576, Stop: 21970, Start Num: 295

Candidate Starts for Makoto_25:

(Start: 295 @20576 has 213 MA's), (328, 20633), (Start: 387 @20738 has 1 MA's), (429, 20825), (452, 20858), (512, 20915), (540, 20966), (575, 20996), (577, 20999), (580, 21005), (590, 21041), (599, 21059), (601, 21062), (610, 21095), (620, 21116), (704, 21248), (719, 21275), (761, 21314), (775, 21335), (777, 21341), (788, 21374), (794, 21389), (797, 21398), (817, 21443), (866, 21479), (924, 21521), (953, 21584), (963, 21602), (1009, 21704), (1010, 21707), (1019, 21725), (1020, 21728), (1031, 21752), (1034, 21761), (1072, 21848), (1140, 21938), (1156, 21962),

Gene: Malvina_51 Start: 37812, Stop: 36322, Start Num: 277

Candidate Starts for Malvina_51:

(Start: 277 @37812 has 49 MA's), (Start: 303 @37770 has 4 MA's), (328, 37728), (330, 37722), (Start: 343 @37695 has 1 MA's), (379, 37641), (394, 37605), (Start: 408 @37578 has 1 MA's), (453, 37497), (454, 37494), (456, 37488), (465, 37467), (505, 37452), (532, 37401), (577, 37365), (580, 37359), (584, 37341), (596, 37311), (599, 37305), (602, 37299), (649, 37221), (772, 37080), (799, 37002), (811, 36963), (817, 36948), (857, 36912), (867, 36891), (868, 36888), (875, 36873), (886, 36846), (907, 36801), (940, 36732), (964, 36687), (966, 36684), (981, 36642), (988, 36627), (1009, 36582), (1010, 36579), (1013, 36573), (1036, 36522), (1055, 36492), (1097, 36402), (1121, 36369), (1146, 36333),

Gene: MamaPearl_26 Start: 21743, Stop: 23140, Start Num: 295

Candidate Starts for MamaPearl_26:

(Start: 295 @21743 has 213 MA's), (328, 21803), (Start: 387 @21908 has 1 MA's), (388, 21911), (429, 21995), (452, 22028), (509, 22079), (512, 22085), (575, 22166), (580, 22175), (590, 22211), (599, 22229), (601, 22232), (610, 22265), (620, 22286), (704, 22418), (754, 22475), (761, 22484), (775, 22505), (777, 22511), (788, 22544), (794, 22559), (821, 22619), (866, 22649), (942, 22730), (963, 22772), (977, 22805), (1003, 22868), (1010, 22877), (1017, 22889), (1019, 22895), (1024, 22910), (1031, 22922), (1034, 22931), (1072, 23018), (1117, 23075), (1140, 23108),

Gene: ManRay_40 Start: 30816, Stop: 29428, Start Num: 319

Candidate Starts for ManRay_40:

(197, 31038), (Start: 319 @30816 has 153 MA's), (405, 30672), (Start: 408 @30666 has 1 MA's), (410, 30663), (471, 30549), (511, 30522), (547, 30462), (572, 30435), (577, 30432), (622, 30336), (644, 30294), (781, 30123), (790, 30102), (797, 30087), (817, 30027), (874, 29967), (927, 29871), (960, 29808), (982, 29754), (1023, 29670), (1024, 29664), (1031, 29652), (1077, 29556), (1109, 29502), (1112, 29499), (1128, 29475),

Gene: Mandalorian_39 Start: 30635, Stop: 29223, Start Num: 327

Candidate Starts for Mandalorian_39:

(Start: 323 @30638 has 8 MA's), (Start: 327 @30635 has 23 MA's), (339, 30605), (Start: 343 @30599 has 1 MA's), (Start: 408 @30491 has 1 MA's), (411, 30485), (471, 30374), (511, 30347), (540, 30296), (547, 30287), (572, 30260), (577, 30257), (590, 30215), (622, 30161), (727, 30005), (778, 29954), (781, 29948), (790, 29927), (794, 29921), (797, 29912), (801, 29900), (805, 29888), (846, 29810), (874, 29750), (876, 29744), (903, 29696), (925, 29654), (960, 29591), (967, 29579), (976, 29555),

(977, 29552), (1009, 29483), (1013, 29474), (1020, 29459), (1023, 29453), (1024, 29447), (1031, 29435), (1082, 29330), (1093, 29312), (1099, 29300), (1131, 29255),

Gene: Mardi_77 Start: 46514, Stop: 47761, Start Num: 294

Candidate Starts for Mardi_77:

(Start: 294 @46514 has 45 MA's), (Start: 384 @46676 has 1 MA's), (388, 46688), (413, 46742), (455, 46820), (519, 46895), (587, 46985), (590, 46994), (677, 47147), (722, 47222), (781, 47291), (1075, 47630), (1096, 47666), (1107, 47684),

Gene: Mareelih_167 Start: 96276, Stop: 94366, Start Num: 70

Candidate Starts for Mareelih_167:

(Start: 70 @96276 has 5 MA's), (144, 96072), (165, 96024), (191, 95979), (225, 95898), (232, 95886), (299, 95781), (310, 95754), (430, 95649), (444, 95625), (533, 95460), (688, 95193), (693, 95184), (709, 95157), (788, 95088), (920, 94839), (951, 94773), (965, 94749), (1024, 94614), (1058, 94554), (1089, 94482),

Gene: Margaret_58 Start: 39745, Stop: 38270, Start Num: 280

Candidate Starts for Margaret_58:

(Start: 280 @39745 has 11 MA's), (Start: 303 @39703 has 4 MA's), (330, 39655), (Start: 343 @39628 has 1 MA's), (359, 39598), (379, 39574), (388, 39553), (391, 39544), (394, 39538), (Start: 408 @39511 has 1 MA's), (443, 39454), (448, 39445), (454, 39427), (456, 39421), (577, 39298), (596, 39244), (599, 39238), (602, 39232), (639, 39169), (649, 39154), (661, 39139), (794, 38950), (797, 38941), (801, 38929), (808, 38908), (825, 38869), (831, 38860), (867, 38824), (875, 38806), (877, 38800), (904, 38755), (907, 38749), (940, 38680), (966, 38632), (971, 38617), (981, 38590), (988, 38575), (1013, 38521), (1036, 38470), (1066, 38407), (1093, 38359), (1099, 38347), (1104, 38338),

Gene: Maria1952_26 Start: 21732, Stop: 23129, Start Num: 295

Candidate Starts for Maria1952_26:

(Start: 295 @21732 has 213 MA's), (328, 21792), (379, 21879), (Start: 387 @21897 has 1 MA's), (388, 21900), (429, 21984), (433, 21990), (452, 22017), (509, 22068), (512, 22074), (540, 22125), (547, 22134), (575, 22155), (580, 22164), (590, 22200), (601, 22221), (610, 22254), (620, 22275), (627, 22293), (630, 22299), (650, 22326), (660, 22338), (667, 22353), (704, 22407), (742, 22458), (754, 22464), (761, 22473), (764, 22479), (777, 22500), (788, 22533), (794, 22548), (797, 22557), (924, 22680), (942, 22719), (953, 22743), (961, 22755), (1009, 22863), (1012, 22869), (1017, 22878), (1019, 22884), (1034, 22920), (1072, 23007), (1140, 23097), (1156, 23121),

Gene: Marianna39_137 Start: 72495, Stop: 73739, Start Num: 294

Candidate Starts for Marianna39_137:

(Start: 294 @72495 has 45 MA's), (312, 72534), (Start: 318 @72543 has 13 MA's), (388, 72669), (413, 72723), (578, 72936), (587, 72966), (596, 72987), (622, 73035), (639, 73068), (673, 73122), (677, 73128), (773, 73251), (781, 73272), (784, 73281), (805, 73344), (1009, 73470), (1012, 73476), (1047, 73545), (1068, 73596), (1096, 73647), (1107, 73665),

Gene: Marietta_72 Start: 52748, Stop: 50667, Start Num: 35

Candidate Starts for Marietta_72:

(9, 52940), (11, 52922), (16, 52847), (Start: 35 @52748 has 35 MA's), (269, 52229), (Start: 297 @52196 has 15 MA's), (Start: 306 @52175 has 28 MA's), (336, 52121), (339, 52115), (341, 52112), (394, 52022), (Start: 395 @52019 has 1 MA's), (441, 51959), (553, 51803), (627, 51656), (688, 51548), (700, 51524), (777, 51422), (796, 51368), (805, 51353), (847, 51272), (876, 51233), (919, 51170), (939, 51131), (942, 51125), (956, 51095), (1009, 50978), (1040, 50915), (1068, 50852), (1078, 50834), (1133, 50750),

Gene: Marky_44 Start: 31624, Stop: 33015, Start Num: 303

Candidate Starts for Marky_44:

(291, 31615), (Start: 303 @31624 has 4 MA's), (Start: 304 @31630 has 1 MA's), (339, 31699), (353, 31723), (Start: 387 @31768 has 1 MA's), (441, 31861), (509, 31927), (583, 32038), (595, 32068), (596, 32071), (651, 32194), (740, 32329), (764, 32356), (777, 32377), (785, 32398), (788, 32410), (912, 32539), (944, 32608), (953, 32629), (963, 32647), (971, 32665), (992, 32719), (1009, 32749), (1034, 32806), (1036, 32809), (1061, 32857), (1100, 32926), (1138, 32980), (1150, 32998),

Gene: Martin_42 Start: 31123, Stop: 29735, Start Num: 319

Candidate Starts for Martin_42:

(39, 31774), (163, 31420), (197, 31345), (Start: 319 @31123 has 153 MA's), (405, 30979), (Start: 408 @30973 has 1 MA's), (410, 30970), (471, 30856), (511, 30829), (547, 30769), (572, 30742), (577, 30739), (622, 30643), (644, 30601), (777, 30439), (781, 30430), (790, 30409), (797, 30394), (801, 30382), (817, 30334), (874, 30274), (927, 30178), (960, 30115), (982, 30061), (1023, 29977), (1024, 29971), (1031, 29959), (1077, 29863), (1109, 29809), (1112, 29806), (1128, 29782),

Gene: Maselop_72 Start: 53166, Stop: 51130, Start Num: 36

Candidate Starts for Maselop_72:

(11, 53334), (Start: 36 @53166 has 6 MA's), (62, 53100), (85, 53058), (123, 52953), (198, 52773), (239, 52716), (269, 52665), (283, 52650), (335, 52560), (341, 52548), (394, 52455), (444, 52383), (512, 52314), (548, 52242), (583, 52185), (688, 52005), (700, 51981), (751, 51918), (777, 51882), (810, 51795), (888, 51663), (920, 51624), (921, 51621), (942, 51576), (1009, 51429), (1040, 51366), (1060, 51324), (1078, 51285), (1093, 51261),

Gene: Maya_81 Start: 49394, Stop: 50578, Start Num: 295

Candidate Starts for Maya_81:

(Start: 295 @49394 has 213 MA's), (Start: 318 @49439 has 13 MA's), (333, 49469), (455, 49640), (518, 49712), (547, 49751), (587, 49814), (677, 49976), (698, 50015), (701, 50021), (720, 50048), (781, 50120), (799, 50174), (807, 50198), (814, 50222), (817, 50228), (909, 50252), (978, 50258), (1036, 50372), (1086, 50471), (1089, 50477), (1107, 50507), (1115, 50516), (1153, 50570),

Gene: Mayweather_61 Start: 41658, Stop: 40414, Start Num: 408

Candidate Starts for Mayweather_61:

(Start: 277 @41892 has 49 MA's), (312, 41829), (330, 41802), (Start: 343 @41775 has 1 MA's), (379, 41721), (388, 41700), (389, 41697), (394, 41685), (401, 41670), (Start: 408 @41658 has 1 MA's), (456, 41565), (577, 41442), (596, 41388), (599, 41382), (602, 41376), (649, 41298), (661, 41283), (740, 41184), (794, 41094), (797, 41085), (801, 41073), (808, 41052), (812, 41037), (815, 41028), (830, 41007), (867, 40968), (870, 40959), (877, 40944), (903, 40902), (940, 40824), (942, 40821), (964, 40779), (971, 40761), (1013, 40665), (1036, 40614), (1055, 40584), (1066, 40551), (1097, 40494), (1106, 40479),

Gene: Mbo2_52 Start: 42925, Stop: 41438, Start Num: 316

Candidate Starts for Mbo2_52:

(265, 43012), (Start: 316 @42925 has 5 MA's), (381, 42838), (Start: 395 @42802 has 1 MA's), (Start: 408 @42784 has 1 MA's), (416, 42769), (424, 42754), (433, 42742), (443, 42730), (445, 42724), (462, 42682), (503, 42559), (568, 42445), (599, 42370), (622, 42316), (663, 42241), (665, 42238), (679, 42214), (700, 42175), (721, 42136), (766, 42094), (867, 41911), (917, 41851), (929, 41833), (951, 41788), (953, 41785), (978, 41737), (981, 41728), (990, 41707), (996, 41689), (1011, 41665), (1022, 41641), (1048, 41599), (1060, 41572), (1063, 41560), (1074, 41530), (1082, 41515), (1109, 41473),

Gene: McDazzle_58 Start: 40821, Stop: 39343, Start Num: 277

Candidate Starts for McDazzle_58:

(217, 40902), (Start: 250 @40848 has 2 MA's), (Start: 277 @40821 has 49 MA's), (312, 40758), (328, 40737), (330, 40731), (Start: 343 @40704 has 1 MA's), (379, 40650), (388, 40629), (394, 40614), (401,

40599), (448, 40518), (456, 40494), (532, 40407), (577, 40371), (596, 40317), (599, 40311), (602, 40305), (649, 40227), (661, 40212), (724, 40122), (740, 40113), (772, 40086), (794, 40023), (797, 40014), (801, 40002), (808, 39981), (812, 39966), (815, 39957), (830, 39936), (867, 39897), (870, 39888), (877, 39873), (903, 39831), (919, 39801), (940, 39753), (942, 39750), (964, 39708), (971, 39690), (1013, 39594), (1036, 39543), (1055, 39513), (1066, 39480), (1097, 39423), (1106, 39408),

Gene: McGalleon_43 Start: 32555, Stop: 31152, Start Num: 319

Candidate Starts for McGalleon_43:

(189, 32789), (212, 32738), (256, 32648), (Start: 319 @32555 has 153 MA's), (405, 32411), (Start: 408 @32405 has 1 MA's), (443, 32342), (471, 32288), (511, 32261), (547, 32201), (572, 32174), (577, 32171), (617, 32078), (622, 32075), (644, 32033), (777, 31871), (781, 31862), (790, 31841), (801, 31814), (820, 31763), (874, 31706), (903, 31652), (927, 31610), (948, 31565), (1012, 31433), (1023, 31409), (1024, 31403), (1031, 31391), (1077, 31295), (1093, 31268), (1109, 31241), (1128, 31214), (1152, 31184),

Gene: MediumFry_71 Start: 47706, Stop: 48941, Start Num: 294

Candidate Starts for MediumFry_71:

(Start: 294 @47706 has 45 MA's), (Start: 318 @47754 has 13 MA's), (519, 48087), (578, 48147), (580, 48150), (587, 48177), (655, 48303), (677, 48339), (680, 48345), (700, 48381), (781, 48483), (1036, 48744), (1060, 48789), (1061, 48792), (1096, 48861),

Gene: MeganNoll_29 Start: 22157, Stop: 23557, Start Num: 295

Candidate Starts for MeganNoll_29:

(Start: 295 @22157 has 213 MA's), (328, 22220), (Start: 387 @22325 has 1 MA's), (388, 22328), (429, 22412), (452, 22445), (509, 22496), (512, 22502), (575, 22583), (577, 22586), (580, 22592), (590, 22628), (599, 22646), (601, 22649), (620, 22703), (650, 22754), (704, 22835), (719, 22862), (754, 22892), (761, 22901), (777, 22928), (788, 22961), (794, 22976), (817, 23030), (860, 23051), (865, 23063), (904, 23075), (1012, 23297), (1017, 23306), (1019, 23312), (1034, 23348), (1063, 23408), (1072, 23435), (1140, 23525),

Gene: Megatron06_62 Start: 46630, Stop: 48687, Start Num: 51

Candidate Starts for Megatron06_62:

(Start: 51 @46630 has 11 MA's), (85, 46690), (86, 46693), (119, 46786), (124, 46798), (129, 46819), (177, 46942), (179, 46945), (182, 46954), (199, 46987), (208, 47008), (225, 47056), (251, 47098), (Start: 297 @47161 has 15 MA's), (Start: 306 @47182 has 28 MA's), (310, 47188), (Start: 342 @47242 has 7 MA's), (453, 47428), (457, 47440), (470, 47458), (509, 47473), (512, 47479), (688, 47797), (690, 47800), (716, 47845), (773, 47896), (777, 47908), (810, 47998), (814, 48010), (835, 48043), (851, 48067), (856, 48076), (942, 48166), (958, 48199), (1008, 48310), (1009, 48313), (1010, 48316), (1012, 48319), (1027, 48355), (1037, 48373), (1068, 48439), (1078, 48457), (1171, 48634),

Gene: Meibysrarus_79 Start: 48778, Stop: 49962, Start Num: 295

Candidate Starts for Meibysrarus_79:

(Start: 295 @48778 has 213 MA's), (Start: 318 @48823 has 13 MA's), (333, 48853), (455, 49024), (518, 49096), (547, 49135), (587, 49198), (677, 49360), (698, 49399), (701, 49405), (720, 49432), (781, 49504), (799, 49558), (807, 49582), (814, 49606), (817, 49612), (909, 49636), (978, 49642), (1036, 49756), (1086, 49855), (1089, 49861), (1107, 49891), (1115, 49900), (1153, 49954),

Gene: Mema_60 Start: 45608, Stop: 46804, Start Num: 318

Candidate Starts for Mema_60:

(Start: 295 @45563 has 213 MA's), (Start: 318 @45608 has 13 MA's), (333, 45638), (355, 45680), (377, 45710), (382, 45716), (388, 45731), (392, 45743), (397, 45752), (433, 45818), (450, 45845), (452, 45851), (578, 45992), (580, 45995), (587, 46022), (622, 46091), (639, 46124), (671, 46175), (677, 46184), (773, 46307), (779, 46325), (796, 46373), (807, 46406), (865, 46460), (1086, 46685),

(1117, 46733),

Gene: MerCougar_75 Start: 57668, Stop: 55593, Start Num: 35

Candidate Starts for MerCougar_75:

(Start: 35 @57668 has 35 MA's), (85, 57548), (Start: 98 @57503 has 1 MA's), (101, 57500), (198, 57257), (239, 57200), (269, 57149), (Start: 306 @57095 has 28 MA's), (341, 57032), (394, 56942), (Start: 395 @56939 has 1 MA's), (Start: 408 @56915 has 1 MA's), (441, 56879), (553, 56723), (573, 56699), (627, 56576), (688, 56465), (700, 56441), (777, 56342), (796, 56288), (819, 56234), (847, 56192), (876, 56153), (888, 56126), (921, 56084), (939, 56051), (956, 56015), (977, 55970), (981, 55958), (1009, 55898), (1078, 55754), (1133, 55670),

Gene: Mercedes_36 Start: 28234, Stop: 26813, Start Num: 319

Candidate Starts for Mercedes_36:

(Start: 319 @28234 has 153 MA's), (339, 28198), (392, 28114), (441, 28027), (443, 28021), (504, 27949), (508, 27937), (572, 27844), (577, 27841), (595, 27790), (727, 27586), (781, 27529), (801, 27481), (811, 27448), (820, 27430), (874, 27334), (877, 27325), (903, 27280), (905, 27274), (927, 27238), (948, 27193), (960, 27175), (1009, 27067), (1013, 27058), (1020, 27043), (1023, 27037), (1106, 26872),

Gene: Merida02_43 Start: 31117, Stop: 29729, Start Num: 319

Candidate Starts for Merida02_43:

(197, 31339), (Start: 319 @31117 has 153 MA's), (405, 30973), (Start: 408 @30967 has 1 MA's), (410, 30964), (471, 30850), (511, 30823), (547, 30763), (572, 30736), (577, 30733), (580, 30727), (622, 30637), (644, 30595), (781, 30424), (797, 30388), (801, 30376), (811, 30343), (817, 30328), (874, 30268), (927, 30172), (960, 30109), (982, 30055), (1023, 29971), (1024, 29965), (1031, 29953), (1077, 29857), (1109, 29803), (1112, 29800), (1128, 29776),

Gene: Michelle_74 Start: 46144, Stop: 47382, Start Num: 295

Candidate Starts for Michelle_74:

(Start: 295 @46144 has 213 MA's), (388, 46315), (455, 46447), (578, 46582), (587, 46612), (614, 46669), (677, 46774), (680, 46780), (698, 46813), (781, 46918), (996, 47107), (1107, 47320), (1140, 47365),

Gene: Microdon_41 Start: 30843, Stop: 32237, Start Num: 302

Candidate Starts for Microdon_41:

(Start: 302 @30843 has 13 MA's), (Start: 303 @30846 has 4 MA's), (339, 30921), (353, 30945), (356, 30951), (381, 30975), (Start: 387 @30990 has 1 MA's), (388, 30993), (424, 31065), (440, 31080), (459, 31116), (547, 31215), (651, 31416), (740, 31551), (764, 31578), (777, 31599), (808, 31677), (821, 31710), (827, 31719), (912, 31761), (942, 31827), (944, 31830), (953, 31851), (963, 31869), (971, 31887), (992, 31941), (1009, 31971), (1034, 32028), (1036, 32031), (1061, 32079), (1074, 32118), (1082, 32133), (1138, 32202), (1150, 32220), (1156, 32229),

Gene: Miek_83 Start: 49805, Stop: 50995, Start Num: 295

Candidate Starts for Miek_83:

(Start: 295 @49805 has 213 MA's), (349, 49910), (413, 49979), (519, 50132), (536, 50150), (594, 50237), (622, 50291), (677, 50384), (693, 50411), (784, 50537), (805, 50600), (814, 50630), (824, 50648), (1047, 50795), (1077, 50864), (1086, 50879), (1095, 50894), (1105, 50912), (1107, 50915), (1115, 50924),

Gene: Milani_33 Start: 22173, Stop: 23600, Start Num: 298

Candidate Starts for Milani_33:

(Start: 298 @22173 has 19 MA's), (509, 22527), (511, 22530), (519, 22551), (583, 22638), (777, 22974), (785, 22995), (794, 23022), (807, 23049), (808, 23052), (821, 23085), (903, 23121), (942,

23196), (953, 23220), (981, 23283), (992, 23304), (1020, 23358), (1034, 23391), (1043, 23403), (1061, 23442), (1072, 23478), (1075, 23484), (1082, 23496), (1100, 23511), (1134, 23559), (1140, 23568), (1156, 23592),

Gene: MillyPhilly_41 Start: 31111, Stop: 29723, Start Num: 319

Candidate Starts for MillyPhilly_41:

(39, 31762), (163, 31408), (197, 31333), (Start: 319 @31111 has 153 MA's), (405, 30967), (Start: 408 @30961 has 1 MA's), (410, 30958), (471, 30844), (511, 30817), (547, 30757), (572, 30730), (577, 30727), (622, 30631), (644, 30589), (777, 30427), (781, 30418), (790, 30397), (797, 30382), (801, 30370), (817, 30322), (874, 30262), (927, 30166), (960, 30103), (982, 30049), (1023, 29965), (1024, 29959), (1031, 29947), (1077, 29851), (1109, 29797), (1112, 29794), (1128, 29770),

Gene: Mima20_60 Start: 40803, Stop: 42716, Start Num: 58

Candidate Starts for Mima20_60:

(Start: 55 @40800 has 13 MA's), (Start: 58 @40803 has 23 MA's), (Start: 76 @40815 has 2 MA's), (Start: 89 @40863 has 2 MA's), (Start: 103 @40896 has 1 MA's), (125, 40965), (155, 41055), (172, 41082), (175, 41091), (219, 41163), (Start: 297 @41283 has 15 MA's), (331, 41346), (Start: 387 @41436 has 1 MA's), (401, 41463), (509, 41592), (519, 41616), (542, 41658), (577, 41706), (583, 41727), (590, 41748), (620, 41805), (652, 41859), (679, 41901), (716, 41961), (788, 42057), (790, 42060), (915, 42237), (951, 42288), (992, 42378), (1009, 42414), (1012, 42420), (1037, 42474), (1059, 42513), (1112, 42615), (1123, 42630), (1137, 42651),

Gene: Mimi_101 Start: 80085, Stop: 81923, Start Num: 71

Candidate Starts for Mimi_101:

(Start: 71 @80085 has 13 MA's), (Start: 94 @80166 has 4 MA's), (127, 80244), (169, 80340), (222, 80400), (239, 80430), (310, 80550), (337, 80601), (435, 80661), (613, 81000), (648, 81057), (665, 81078), (693, 81123), (730, 81180), (777, 81186), (788, 81219), (793, 81231), (797, 81243), (814, 81288), (839, 81327), (888, 81384), (903, 81390), (920, 81423), (956, 81492), (993, 81576), (1054, 81693), (1152, 81867), (1169, 81909),

Gene: MiniBagel_73 Start: 48476, Stop: 49726, Start Num: 294

Candidate Starts for MiniBagel_73:

(Start: 292 @48470 has 28 MA's), (Start: 294 @48476 has 45 MA's), (299, 48485), (312, 48515), (Start: 318 @48524 has 13 MA's), (358, 48602), (388, 48650), (Start: 395 @48668 has 1 MA's), (455, 48782), (518, 48854), (578, 48917), (587, 48947), (622, 49016), (677, 49109), (680, 49115), (700, 49151), (781, 49253), (992, 49430), (1036, 49511), (1057, 49544), (1060, 49556), (1061, 49559), (1096, 49628), (1107, 49646),

Gene: MiniVolent_38 Start: 30515, Stop: 29145, Start Num: 327

Candidate Starts for MiniVolent_38:

(Start: 323 @30518 has 8 MA's), (Start: 327 @30515 has 23 MA's), (Start: 387 @30413 has 1 MA's), (471, 30254), (511, 30227), (547, 30167), (572, 30140), (577, 30137), (608, 30056), (622, 30041), (781, 29828), (790, 29807), (794, 29801), (797, 29792), (805, 29768), (811, 29747), (817, 29732), (838, 29708), (874, 29672), (903, 29618), (960, 29513), (967, 29501), (977, 29474), (991, 29441), (1009, 29405), (1013, 29396), (1020, 29381), (1023, 29375), (1024, 29369), (1031, 29357), (1077, 29261), (1082, 29252), (1093, 29234), (1099, 29222), (1128, 29180), (1147, 29153),

Gene: Minos_58 Start: 52601, Stop: 51189, Start Num: 375

Candidate Starts for Minos_58:

(177, 52949), (233, 52820), (288, 52733), (Start: 290 @52730 has 3 MA's), (Start: 375 @52601 has 28 MA's), (Start: 395 @52556 has 1 MA's), (443, 52466), (444, 52463), (448, 52457), (455, 52436), (483, 52373), (516, 52265), (525, 52247), (580, 52160), (583, 52145), (601, 52103), (635, 52022), (665, 51974), (690, 51932), (698, 51914), (700, 51911), (714, 51884), (758, 51833), (776, 51797), (794,

51746), (857, 51662), (867, 51641), (982, 51485), (985, 51479), (990, 51467), (1055, 51341), (1109, 51227),

Gene: Mireles_41 Start: 27371, Stop: 25572, Start Num: 75

Candidate Starts for Mireles_41:

(Start: 75 @27371 has 19 MA's), (90, 27314), (118, 27251), (241, 26996), (248, 26984), (Start: 302 @26900 has 13 MA's), (358, 26789), (438, 26762), (513, 26612), (530, 26576), (549, 26540), (583, 26486), (590, 26465), (693, 26294), (730, 26237), (777, 26231), (807, 26186), (814, 26162), (818, 26156), (834, 26132), (875, 26102), (878, 26093), (933, 26018), (940, 26000), (942, 25997), (1013, 25844), (1044, 25784), (1063, 25736), (1147, 25598), (1149, 25595),

Gene: Misaeng_29 Start: 22230, Stop: 23621, Start Num: 295

Candidate Starts for Misaeng_29:

(Start: 295 @22230 has 213 MA's), (Start: 343 @22317 has 1 MA's), (Start: 387 @22389 has 1 MA's), (388, 22392), (419, 22458), (429, 22476), (452, 22509), (512, 22566), (575, 22647), (580, 22656), (590, 22692), (599, 22710), (610, 22746), (620, 22767), (627, 22785), (650, 22818), (704, 22899), (719, 22926), (742, 22950), (775, 22986), (777, 22992), (788, 23025), (794, 23040), (797, 23049), (817, 23094), (865, 23127), (866, 23130), (944, 23214), (961, 23247), (963, 23253), (969, 23265), (1009, 23355), (1012, 23361), (1019, 23376), (1020, 23379), (1024, 23391), (1031, 23403), (1034, 23412), (1072, 23499), (1140, 23589),

Gene: Mistmere_78 Start: 48079, Stop: 46562, Start Num: 292

Candidate Starts for Mistmere_78:

(207, 48235), (283, 48091), (Start: 292 @48079 has 28 MA's), (347, 47968), (374, 47929), (383, 47920), (444, 47797), (451, 47782), (511, 47710), (544, 47644), (564, 47617), (590, 47560), (592, 47557), (623, 47494), (661, 47434), (723, 47332), (781, 47266), (848, 47116), (865, 47083), (869, 47071), (936, 46945), (959, 46900), (1006, 46813), (1010, 46807), (1019, 46789), (1057, 46714), (1083, 46657),

Gene: MoiGyank_63 Start: 41576, Stop: 43489, Start Num: 58

Candidate Starts for MoiGyank_63:

(Start: 55 @41573 has 13 MA's), (Start: 58 @41576 has 23 MA's), (Start: 76 @41588 has 2 MA's), (Start: 89 @41636 has 2 MA's), (Start: 103 @41669 has 1 MA's), (125, 41738), (155, 41828), (172, 41855), (175, 41864), (219, 41936), (Start: 297 @42056 has 15 MA's), (331, 42119), (Start: 387 @42209 has 1 MA's), (509, 42365), (519, 42389), (542, 42431), (577, 42479), (583, 42500), (590, 42521), (620, 42578), (627, 42596), (652, 42632), (679, 42674), (716, 42734), (788, 42830), (790, 42833), (915, 43010), (951, 43061), (992, 43151), (1009, 43187), (1012, 43193), (1027, 43229), (1037, 43247), (1059, 43286), (1112, 43388), (1123, 43403), (1137, 43424),

Gene: Moki_25 Start: 20566, Stop: 21960, Start Num: 295

Candidate Starts for Moki_25:

(Start: 295 @20566 has 213 MA's), (328, 20623), (Start: 387 @20728 has 1 MA's), (429, 20815), (452, 20848), (511, 20902), (512, 20905), (580, 20995), (590, 21031), (599, 21049), (601, 21052), (620, 21106), (704, 21238), (719, 21265), (754, 21295), (761, 21304), (777, 21331), (788, 21364), (794, 21379), (808, 21406), (817, 21433), (866, 21469), (924, 21511), (953, 21574), (963, 21592), (992, 21664), (1003, 21688), (1009, 21694), (1010, 21697), (1019, 21715), (1020, 21718), (1031, 21742), (1034, 21751), (1072, 21838), (1113, 21889), (1140, 21928),

Gene: Molivia_74 Start: 46115, Stop: 44718, Start Num: 317

Candidate Starts for Molivia_74:

(Start: 317 @46115 has 13 MA's), (Start: 343 @46064 has 1 MA's), (377, 46013), (383, 46010), (389, 45992), (398, 45974), (409, 45953), (504, 45830), (582, 45692), (653, 45551), (679, 45509), (692, 45488), (773, 45395), (810, 45338), (831, 45323), (850, 45293), (867, 45260), (914, 45185), (936,

45137), (950, 45110), (954, 45101), (962, 45089), (1010, 44987), (1027, 44948), (1032, 44939), (1098, 44807), (1129, 44762), (1146, 44738),

Gene: MonChoix_39 Start: 31157, Stop: 29766, Start Num: 319

Candidate Starts for MonChoix_39:

(Start: 319 @31157 has 153 MA's), (405, 31010), (Start: 408 @31004 has 1 MA's), (410, 31001), (471, 30887), (511, 30860), (547, 30800), (572, 30773), (577, 30770), (622, 30674), (644, 30632), (781, 30461), (794, 30434), (817, 30365), (874, 30305), (982, 30092), (991, 30074), (1009, 30038), (1023, 30008), (1024, 30002), (1031, 29990), (1077, 29894), (1109, 29840), (1112, 29837),

Gene: Monse_53 Start: 37349, Stop: 38521, Start Num: 297

Candidate Starts for Monse_53:

(Start: 297 @37349 has 15 MA's), (312, 37382), (Start: 318 @37391 has 13 MA's), (347, 37448), (426, 37541), (519, 37670), (577, 37727), (587, 37760), (590, 37769), (622, 37829), (673, 37916), (677, 37922), (690, 37943), (701, 37967), (757, 38024), (773, 38045), (781, 38066), (792, 38099), (795, 38108), (1013, 38267), (1086, 38417), (1089, 38423), (1105, 38450), (1107, 38453),

Gene: Monty_58 Start: 51476, Stop: 49944, Start Num: 306

Candidate Starts for Monty_58:

(177, 51731), (201, 51680), (220, 51629), (248, 51575), (265, 51545), (Start: 290 @51512 has 3 MA's), (Start: 295 @51503 has 213 MA's), (Start: 306 @51476 has 28 MA's), (Start: 395 @51308 has 1 MA's), (416, 51266), (443, 51218), (449, 51206), (453, 51194), (455, 51188), (464, 51167), (479, 51140), (525, 50999), (580, 50912), (583, 50897), (587, 50885), (601, 50855), (622, 50804), (634, 50777), (665, 50726), (698, 50666), (700, 50663), (714, 50636), (747, 50594), (776, 50549), (857, 50414), (865, 50399), (883, 50378), (951, 50297), (953, 50294), (982, 50237), (985, 50231), (988, 50225), (990, 50219), (1025, 50144), (1048, 50105), (1055, 50093), (1057, 50090), (1099, 49997), (1109, 49982), (1125, 49961),

Gene: MontyDev_68 Start: 47606, Stop: 49366, Start Num: 183

Candidate Starts for MontyDev_68:

(Start: 183 @47606 has 10 MA's), (226, 47675), (Start: 294 @47771 has 45 MA's), (299, 47780), (Start: 342 @47861 has 7 MA's), (373, 47906), (461, 48083), (509, 48107), (534, 48155), (573, 48215), (580, 48227), (605, 48293), (672, 48416), (688, 48440), (700, 48464), (777, 48668), (788, 48701), (794, 48716), (810, 48755), (811, 48758), (814, 48767), (865, 48836), (965, 48968), (1009, 49091), (1010, 49094), (1023, 49121), (1037, 49151), (1042, 49157), (1044, 49160), (1054, 49178), (1059, 49190), (1137, 49325), (1157, 49352), (1159, 49355),

Gene: Mooshroom_81 Start: 46338, Stop: 47648, Start Num: 295

Candidate Starts for Mooshroom_81:

(Start: 295 @46338 has 213 MA's), (578, 46776), (580, 46779), (587, 46806), (645, 46920), (677, 46968), (695, 46998), (722, 47043), (725, 47046), (776, 47100), (778, 47106), (779, 47109), (781, 47112), (785, 47124), (805, 47184), (807, 47190), (1009, 47310), (1089, 47475), (1138, 47547), (1162, 47583),

Gene: Moozy_53 Start: 37368, Stop: 38540, Start Num: 297

Candidate Starts for Moozy_53:

(Start: 297 @37368 has 15 MA's), (312, 37401), (Start: 318 @37410 has 13 MA's), (347, 37467), (426, 37560), (433, 37572), (519, 37689), (587, 37779), (614, 37836), (622, 37848), (673, 37935), (677, 37941), (690, 37962), (701, 37986), (713, 38001), (765, 38055), (773, 38064), (781, 38085), (782, 38088), (795, 38127), (1013, 38286), (1047, 38352), (1057, 38370), (1086, 38436), (1089, 38442), (1098, 38457),

Gene: Mopey_54 Start: 39729, Stop: 41672, Start Num: 65

Candidate Starts for Mopey_54:

(Start: 65 @39729 has 24 MA's), (80, 39756), (104, 39828), (121, 39882), (140, 39942), (146, 39960), (151, 39969), (174, 40020), (193, 40062), (219, 40098), (269, 40185), (329, 40278), (335, 40293), (347, 40314), (414, 40416), (438, 40449), (450, 40473), (512, 40533), (562, 40620), (596, 40695), (652, 40785), (688, 40836), (690, 40839), (764, 40929), (777, 40947), (788, 40980), (810, 41034), (814, 41046), (824, 41064), (865, 41127), (939, 41211), (992, 41328), (1009, 41376), (1040, 41439), (1078, 41523),

Gene: Mordred_90 Start: 58817, Stop: 60562, Start Num: 158

Candidate Starts for Mordred_90:

(Start: 158 @58817 has 18 MA's), (168, 58838), (205, 58916), (214, 58940), (236, 58985), (251, 59009), (Start: 278 @59048 has 3 MA's), (366, 59207), (Start: 375 @59216 has 28 MA's), (394, 59258), (405, 59279), (430, 59312), (435, 59318), (438, 59321), (444, 59336), (452, 59351), (527, 59438), (534, 59450), (538, 59456), (563, 59492), (578, 59516), (582, 59528), (652, 59660), (710, 59744), (724, 59765), (741, 59777), (759, 59792), (761, 59795), (777, 59819), (787, 59843), (793, 59855), (812, 59912), (856, 59957), (885, 60023), (893, 60035), (898, 60044), (907, 60068), (909, 60071), (928, 60107), (932, 60113), (940, 60137), (980, 60218), (981, 60224), (989, 60242), (998, 60269), (1002, 60275), (1019, 60305), (1021, 60311), (1053, 60371), (1073, 60422), (1076, 60428), (1099, 60467),

Gene: Morrigan_42 Start: 30540, Stop: 29155, Start Num: 322

Candidate Starts for Morrigan_42:

(Start: 319 @30543 has 153 MA's), (Start: 322 @30540 has 4 MA's), (336, 30513), (Start: 343 @30501 has 1 MA's), (345, 30498), (Start: 387 @30435 has 1 MA's), (443, 30330), (464, 30279), (471, 30267), (572, 30153), (577, 30150), (590, 30108), (615, 30057), (781, 29838), (801, 29790), (805, 29778), (806, 29775), (808, 29769), (811, 29757), (857, 29718), (874, 29682), (878, 29670), (903, 29628), (920, 29595), (927, 29586), (929, 29583), (960, 29523), (1009, 29415), (1013, 29406), (1020, 29391), (1023, 29385), (1024, 29379), (1031, 29367), (1082, 29262), (1093, 29244), (1106, 29220), (1128, 29190),

Gene: MortySmith_38 Start: 24974, Stop: 26881, Start Num: 68

Candidate Starts for MortySmith_38:

(17, 24800), (Start: 68 @24974 has 36 MA's), (93, 25037), (106, 25058), (122, 25112), (176, 25247), (199, 25289), (229, 25334), (335, 25508), (339, 25517), (394, 25607), (415, 25649), (422, 25664), (543, 25850), (620, 25985), (624, 25997), (650, 26030), (777, 26159), (824, 26276), (1009, 26585), (1010, 26588), (1037, 26648), (1080, 26738), (1097, 26768), (1126, 26810), (1163, 26861),

Gene: Mossy_85 Start: 55062, Stop: 56279, Start Num: 295

Candidate Starts for Mossy_85:

(Start: 295 @55062 has 213 MA's), (299, 55068), (Start: 327 @55122 has 23 MA's), (333, 55137), (347, 55164), (359, 55188), (392, 55230), (413, 55272), (518, 55422), (519, 55425), (578, 55485), (604, 55551), (639, 55617), (650, 55635), (671, 55668), (673, 55671), (677, 55677), (698, 55716), (700, 55719), (711, 55734), (715, 55740), (717, 55743), (720, 55749), (725, 55755), (755, 55776), (765, 55791), (773, 55800), (781, 55821), (784, 55830), (799, 55875), (805, 55893), (807, 55899), (819, 55932), (1018, 56040), (1029, 56067), (1036, 56082), (1068, 56148), (1079, 56169), (1086, 56181), (1115, 56226),

Gene: MoyaNatalis_89 Start: 58700, Stop: 60445, Start Num: 158

Candidate Starts for MoyaNatalis_89:

(Start: 158 @58700 has 18 MA's), (168, 58721), (205, 58799), (214, 58823), (236, 58868), (251, 58892), (Start: 278 @58931 has 3 MA's), (366, 59090), (Start: 375 @59099 has 28 MA's), (394, 59141), (405, 59162), (430, 59195), (435, 59201), (438, 59204), (444, 59219), (452, 59234), (527, 59321), (534, 59333), (538, 59339), (563, 59375), (578, 59399), (582, 59411), (652, 59543), (710,

59627), (724, 59648), (741, 59660), (759, 59675), (761, 59678), (777, 59702), (787, 59726), (793, 59738), (812, 59795), (856, 59840), (885, 59906), (893, 59918), (898, 59927), (907, 59951), (909, 59954), (928, 59990), (932, 59996), (940, 60020), (980, 60101), (981, 60107), (989, 60125), (998, 60152), (1002, 60158), (1019, 60188), (1021, 60194), (1053, 60254), (1073, 60305), (1076, 60311), (1099, 60350),

Gene: MrAaronian_74 Start: 46144, Stop: 47382, Start Num: 295

Candidate Starts for MrAaronian_74:

(Start: 295 @46144 has 213 MA's), (388, 46315), (455, 46447), (578, 46582), (587, 46612), (614, 46669), (677, 46774), (680, 46780), (698, 46813), (781, 46918), (996, 47107), (1107, 47320), (1140, 47365),

Gene: MrBoss_30 Start: 22115, Stop: 23509, Start Num: 295

Candidate Starts for MrBoss_30:

(Start: 295 @22115 has 213 MA's), (328, 22172), (Start: 387 @22277 has 1 MA's), (429, 22364), (509, 22448), (511, 22451), (512, 22454), (580, 22544), (590, 22580), (595, 22589), (599, 22598), (620, 22655), (627, 22673), (650, 22706), (704, 22787), (719, 22814), (742, 22838), (777, 22880), (788, 22913), (794, 22928), (904, 23027), (953, 23123), (963, 23141), (969, 23153), (1009, 23243), (1012, 23249), (1017, 23258), (1019, 23264), (1034, 23300), (1072, 23387), (1113, 23438), (1117, 23444), (1140, 23477), (1156, 23501),

Gene: MrMiyagi_73 Start: 45205, Stop: 47052, Start Num: 95

Candidate Starts for MrMiyagi_73:

(Start: 95 @45205 has 3 MA's), (108, 45223), (118, 45259), (136, 45310), (182, 45418), (199, 45451), (239, 45511), (263, 45553), (Start: 295 @45592 has 213 MA's), (Start: 348 @45688 has 1 MA's), (354, 45700), (Start: 375 @45727 has 28 MA's), (Start: 384 @45742 has 1 MA's), (Start: 387 @45751 has 1 MA's), (405, 45790), (412, 45805), (457, 45892), (466, 45904), (548, 46003), (553, 46009), (573, 46033), (596, 46093), (638, 46171), (660, 46198), (679, 46228), (688, 46240), (700, 46264), (777, 46342), (788, 46375), (794, 46390), (806, 46414), (807, 46417), (814, 46441), (1009, 46765), (1013, 46774), (1024, 46801), (1037, 46825), (1060, 46870), (1078, 46912), (1106, 46960), (1121, 46978), (1162, 47035),

Gene: MrWorldwide_41 Start: 31121, Stop: 29733, Start Num: 319

Candidate Starts for MrWorldwide_41:

(39, 31772), (163, 31418), (197, 31343), (Start: 319 @31121 has 153 MA's), (405, 30977), (Start: 408 @30971 has 1 MA's), (410, 30968), (471, 30854), (511, 30827), (547, 30767), (572, 30740), (577, 30737), (622, 30641), (644, 30599), (777, 30437), (781, 30428), (790, 30407), (797, 30392), (801, 30380), (817, 30332), (874, 30272), (927, 30176), (960, 30113), (982, 30059), (1023, 29975), (1024, 29969), (1031, 29957), (1077, 29861), (1109, 29807), (1112, 29804), (1128, 29780),

Gene: MrWormie_57 Start: 51762, Stop: 50350, Start Num: 375

Candidate Starts for MrWormie_57:

(177, 52110), (233, 51981), (Start: 290 @51891 has 3 MA's), (Start: 375 @51762 has 28 MA's), (Start: 395 @51717 has 1 MA's), (443, 51627), (444, 51624), (448, 51618), (455, 51597), (483, 51534), (516, 51426), (525, 51408), (580, 51321), (583, 51306), (601, 51264), (635, 51183), (665, 51135), (690, 51093), (698, 51075), (700, 51072), (714, 51045), (758, 50994), (776, 50958), (794, 50907), (857, 50823), (867, 50802), (982, 50646), (985, 50640), (990, 50628), (1055, 50502), (1109, 50388),

Gene: Msay19_64 Start: 54046, Stop: 52514, Start Num: 306

Candidate Starts for Msay19_64:

(177, 54301), (201, 54250), (248, 54145), (265, 54115), (Start: 290 @54082 has 3 MA's), (Start: 295 @54073 has 213 MA's), (Start: 306 @54046 has 28 MA's), (Start: 395 @53878 has 1 MA's), (416, 53836), (426, 53818), (443, 53788), (449, 53776), (453, 53764), (455, 53758), (464, 53737), (525,

53569), (580, 53482), (583, 53467), (587, 53455), (601, 53425), (622, 53374), (665, 53296), (679, 53272), (690, 53254), (698, 53236), (700, 53233), (705, 53224), (714, 53206), (747, 53164), (776, 53119), (783, 53101), (857, 52984), (865, 52969), (883, 52948), (951, 52867), (953, 52864), (982, 52807), (985, 52801), (990, 52789), (1025, 52714), (1048, 52675), (1055, 52663), (1057, 52660), (1099, 52567), (1109, 52552),

Gene: Mudcat_75 Start: 47471, Stop: 48781, Start Num: 295

Candidate Starts for Mudcat_75:

(Start: 295 @47471 has 213 MA's), (455, 47774), (578, 47909), (587, 47939), (622, 48008), (645, 48053), (671, 48092), (677, 48101), (695, 48131), (722, 48176), (725, 48179), (776, 48233), (778, 48239), (779, 48242), (781, 48245), (785, 48257), (805, 48317), (814, 48347), (1079, 48590), (1089, 48608), (1138, 48680), (1162, 48716),

Gene: Muddy_50 Start: 39454, Stop: 37943, Start Num: 250

Candidate Starts for Muddy_50:

(Start: 250 @39454 has 2 MA's), (279, 39418), (329, 39328), (330, 39325), (355, 39277), (394, 39208), (455, 39094), (578, 38965), (596, 38914), (599, 38908), (602, 38902), (615, 38878), (649, 38824), (772, 38683), (773, 38680), (793, 38623), (815, 38551), (817, 38548), (933, 38374), (940, 38353), (964, 38308), (1009, 38203), (1036, 38143), (1131, 37975), (1146, 37954),

Gene: Muglass_78 Start: 47067, Stop: 48236, Start Num: 333

Candidate Starts for Muglass_78:

(Start: 294 @46989 has 45 MA's), (333, 47067), (388, 47163), (413, 47217), (455, 47295), (587, 47460), (590, 47469), (677, 47622), (781, 47766), (1096, 48141), (1107, 48159),

Gene: MunkgeeRoachy_51 Start: 38189, Stop: 36711, Start Num: 277

Candidate Starts for MunkgeeRoachy_51:

(Start: 277 @38189 has 49 MA's), (330, 38096), (379, 38015), (388, 37994), (453, 37871), (454, 37868), (596, 37685), (599, 37679), (602, 37673), (622, 37643), (649, 37595), (740, 37481), (772, 37454), (781, 37430), (801, 37370), (815, 37325), (830, 37304), (867, 37265), (875, 37247), (877, 37241), (964, 37082), (966, 37079), (971, 37064), (1013, 36968), (1023, 36947), (1036, 36917),

Gene: Musetta_83 Start: 50079, Stop: 48559, Start Num: 292

Candidate Starts for Musetta_83:

(265, 50112), (Start: 292 @50079 has 28 MA's), (Start: 315 @50028 has 2 MA's), (383, 49920), (412, 49854), (449, 49788), (535, 49665), (541, 49650), (578, 49593), (590, 49560), (592, 49557), (623, 49494), (653, 49443), (661, 49434), (665, 49425), (697, 49371), (723, 49332), (745, 49317), (781, 49266), (787, 49248), (798, 49218), (840, 49128), (865, 49083), (1019, 48789), (1032, 48759), (1057, 48714), (1120, 48600),

Gene: Mysticmoon_84 Start: 54156, Stop: 55373, Start Num: 295

Candidate Starts for Mysticmoon_84:

(Start: 295 @54156 has 213 MA's), (Start: 327 @54216 has 23 MA's), (333, 54231), (347, 54258), (359, 54282), (392, 54324), (429, 54393), (455, 54444), (509, 54495), (518, 54516), (536, 54537), (578, 54579), (645, 54723), (671, 54762), (677, 54771), (700, 54813), (711, 54828), (715, 54834), (717, 54837), (720, 54843), (725, 54849), (755, 54870), (773, 54894), (776, 54903), (781, 54915), (784, 54924), (798, 54966), (799, 54969), (805, 54987), (807, 54993), (819, 55026), (1012, 55122), (1018, 55134), (1029, 55161), (1036, 55176), (1079, 55263), (1086, 55275), (1115, 55320),

Gene: NadineRae_71 Start: 52357, Stop: 50276, Start Num: 35

Candidate Starts for NadineRae_71:

(Start: 35 @52357 has 35 MA's), (123, 52126), (269, 51838), (Start: 297 @51805 has 15 MA's), (Start: 306 @51784 has 28 MA's), (336, 51730), (339, 51724), (341, 51721), (394, 51631), (Start: 395

@51628 has 1 MA's), (441, 51568), (553, 51412), (627, 51265), (670, 51184), (688, 51157), (700, 51133), (777, 51031), (796, 50977), (805, 50962), (847, 50881), (876, 50842), (919, 50779), (939, 50740), (942, 50734), (956, 50704), (1009, 50587), (1040, 50524), (1068, 50461), (1078, 50443), (1133, 50359),

Gene: Nadmeg_85 Start: 54988, Stop: 56202, Start Num: 295

Candidate Starts for Nadmeg_85:

(Start: 295 @54988 has 213 MA's), (299, 54994), (Start: 327 @55048 has 23 MA's), (328, 55051), (333, 55063), (358, 55111), (359, 55114), (392, 55156), (413, 55198), (429, 55225), (433, 55231), (452, 55270), (518, 55348), (519, 55351), (578, 55411), (623, 55513), (639, 55543), (657, 55570), (671, 55594), (673, 55597), (677, 55603), (695, 55633), (698, 55642), (700, 55645), (717, 55669), (720, 55675), (725, 55681), (760, 55708), (765, 55717), (776, 55735), (779, 55744), (781, 55747), (784, 55756), (799, 55801), (807, 55825), (814, 55849), (910, 55894), (1009, 55948), (1012, 55954), (1018, 55966), (1068, 56074), (1096, 56125), (1115, 56152), (1138, 56185),

Gene: Nagem_41 Start: 31114, Stop: 29726, Start Num: 319

Candidate Starts for Nagem_41:

(39, 31765), (163, 31411), (197, 31336), (Start: 319 @31114 has 153 MA's), (405, 30970), (Start: 408 @30964 has 1 MA's), (410, 30961), (471, 30847), (511, 30820), (547, 30760), (572, 30733), (577, 30730), (622, 30634), (644, 30592), (777, 30430), (781, 30421), (790, 30400), (797, 30385), (801, 30373), (817, 30325), (874, 30265), (927, 30169), (960, 30106), (982, 30052), (1023, 29968), (1024, 29962), (1031, 29950), (1066, 29875), (1077, 29854), (1109, 29800), (1112, 29797), (1128, 29773),

Gene: Namo_83 Start: 49849, Stop: 51033, Start Num: 295

Candidate Starts for Namo_83:

(Start: 295 @49849 has 213 MA's), (Start: 318 @49894 has 13 MA's), (333, 49924), (455, 50095), (518, 50167), (547, 50206), (587, 50269), (677, 50431), (698, 50470), (701, 50476), (720, 50503), (781, 50575), (799, 50629), (807, 50653), (814, 50677), (817, 50683), (909, 50707), (978, 50713), (1036, 50827), (1086, 50926), (1089, 50932), (1107, 50962), (1115, 50971), (1153, 51025),

Gene: Nancia_25 Start: 20580, Stop: 21974, Start Num: 295

Candidate Starts for Nancia_25:

(Start: 295 @20580 has 213 MA's), (328, 20637), (Start: 387 @20742 has 1 MA's), (388, 20745), (429, 20829), (452, 20862), (509, 20913), (512, 20919), (575, 21000), (577, 21003), (580, 21009), (590, 21045), (599, 21063), (601, 21066), (610, 21099), (620, 21120), (704, 21252), (719, 21279), (761, 21318), (775, 21339), (777, 21345), (788, 21378), (794, 21393), (797, 21402), (817, 21447), (866, 21483), (924, 21525), (953, 21588), (963, 21606), (1009, 21708), (1010, 21711), (1019, 21729), (1020, 21732), (1031, 21756), (1034, 21765), (1072, 21852), (1140, 21942), (1156, 21966),

Gene: NapoleonB_81 Start: 46764, Stop: 48074, Start Num: 295

Candidate Starts for NapoleonB_81:

(Start: 295 @46764 has 213 MA's), (347, 46866), (578, 47202), (587, 47232), (622, 47301), (645, 47346), (671, 47385), (677, 47394), (695, 47424), (722, 47469), (725, 47472), (776, 47526), (778, 47532), (779, 47535), (781, 47538), (796, 47583), (805, 47610), (814, 47640), (1009, 47736), (1089, 47901), (1138, 47973), (1162, 48009),

Gene: NarutoRun_40 Start: 25911, Stop: 27818, Start Num: 68

Candidate Starts for NarutoRun_40:

(Start: 68 @25911 has 36 MA's), (93, 25974), (106, 25995), (122, 26049), (199, 26226), (229, 26271), (335, 26445), (339, 26454), (394, 26544), (422, 26601), (543, 26787), (620, 26922), (624, 26934), (650, 26967), (777, 27096), (824, 27213), (888, 27288), (1009, 27522), (1010, 27525), (1037, 27585), (1080, 27675), (1097, 27705), (1126, 27747), (1163, 27798),

Gene: Nason_79 Start: 46777, Stop: 48087, Start Num: 295

Candidate Starts for Nason_79:

(Start: 295 @46777 has 213 MA's), (578, 47215), (587, 47245), (622, 47314), (645, 47359), (671, 47398), (677, 47407), (695, 47437), (722, 47482), (725, 47485), (765, 47521), (776, 47539), (778, 47545), (779, 47548), (781, 47551), (785, 47563), (805, 47623), (814, 47653), (1079, 47896), (1089, 47914), (1138, 47986), (1162, 48022),

Gene: NatB6_72 Start: 55674, Stop: 53746, Start Num: 89

Candidate Starts for NatB6_72:

(2, 56310), (5, 56109), (8, 56016), (9, 56004), (11, 55986), (Start: 35 @55812 has 35 MA's), (Start: 89 @55674 has 2 MA's), (96, 55650), (175, 55446), (198, 55401), (269, 55293), (339, 55179), (341, 55176), (394, 55086), (Start: 395 @55083 has 1 MA's), (441, 55023), (542, 54885), (553, 54867), (573, 54843), (627, 54720), (688, 54615), (777, 54489), (796, 54435), (807, 54414), (876, 54300), (939, 54204), (942, 54198), (956, 54168), (981, 54111), (1009, 54051), (1040, 53988), (1078, 53907),

Gene: Natasha_77 Start: 46377, Stop: 47627, Start Num: 295

Candidate Starts for Natasha_77:

(Start: 295 @46377 has 213 MA's), (388, 46548), (455, 46680), (504, 46716), (519, 46755), (578, 46815), (587, 46845), (677, 47007), (698, 47046), (781, 47151), (1013, 47358), (1096, 47526), (1107, 47544),

Gene: Nattles_40 Start: 30803, Stop: 29415, Start Num: 319

Candidate Starts for Nattles_40:

(197, 31025), (Start: 319 @30803 has 153 MA's), (405, 30659), (Start: 408 @30653 has 1 MA's), (410, 30650), (471, 30536), (511, 30509), (547, 30449), (572, 30422), (577, 30419), (617, 30326), (622, 30323), (644, 30281), (781, 30110), (790, 30089), (797, 30074), (801, 30062), (817, 30014), (874, 29954), (927, 29858), (960, 29795), (982, 29741), (1023, 29657), (1024, 29651), (1031, 29639), (1066, 29564), (1077, 29543), (1109, 29489), (1112, 29486), (1128, 29462),

Gene: Navi1117_80 Start: 47393, Stop: 48640, Start Num: 294

Candidate Starts for Navi1117_80:

(Start: 294 @47393 has 45 MA's), (Start: 384 @47555 has 1 MA's), (388, 47567), (413, 47621), (455, 47699), (519, 47774), (587, 47864), (590, 47873), (639, 47966), (677, 48026), (722, 48101), (781, 48170), (1096, 48545), (1107, 48563),

Gene: Nebulous_39 Start: 32131, Stop: 30701, Start Num: 318

Candidate Starts for Nebulous_39:

(Start: 318 @32131 has 13 MA's), (336, 32098), (364, 32053), (Start: 408 @31978 has 1 MA's), (410, 31975), (504, 31843), (508, 31831), (572, 31738), (577, 31735), (578, 31732), (639, 31603), (778, 31429), (781, 31423), (790, 31402), (801, 31375), (805, 31363), (806, 31360), (811, 31342), (848, 31285), (874, 31228), (878, 31216), (903, 31174), (927, 31132), (937, 31108), (960, 31069), (982, 31015), (1009, 30961), (1013, 30952), (1020, 30937), (1023, 30931), (1082, 30808), (1093, 30790), (1106, 30766),

Gene: Necrophoxinus_86 Start: 50425, Stop: 48905, Start Num: 292

Candidate Starts for Necrophoxinus_86:

(265, 50458), (Start: 292 @50425 has 28 MA's), (Start: 305 @50392 has 1 MA's), (Start: 315 @50374 has 2 MA's), (374, 50275), (383, 50266), (412, 50200), (449, 50134), (541, 49996), (578, 49939), (590, 49906), (592, 49903), (623, 49840), (653, 49789), (661, 49780), (665, 49771), (686, 49741), (697, 49717), (723, 49678), (745, 49663), (781, 49612), (787, 49594), (798, 49564), (821, 49501), (865, 49429), (1019, 49135), (1032, 49105), (1057, 49060), (1077, 49009), (1105, 48964), (1120, 48946),

Gene: Neferthena_41 Start: 31335, Stop: 29905, Start Num: 318

Candidate Starts for Neferthema_41:

(Start: 318 @31335 has 13 MA's), (336, 31302), (364, 31257), (405, 31188), (Start: 408 @31182 has 1 MA's), (410, 31179), (504, 31047), (572, 30942), (577, 30939), (778, 30633), (781, 30627), (790, 30606), (801, 30579), (811, 30546), (848, 30489), (867, 30447), (874, 30432), (878, 30420), (903, 30378), (927, 30336), (937, 30312), (948, 30291), (960, 30273), (982, 30219), (1009, 30165), (1013, 30156), (1020, 30141), (1023, 30135), (1077, 30021), (1102, 29976), (1106, 29970), (1123, 29949), (1128, 29940),

Gene: Nellie_47 Start: 40998, Stop: 38749, Start Num: 94

Candidate Starts for Nellie_47:

(Start: 94 @40998 has 4 MA's), (112, 40965), (132, 40881), (211, 40692), (215, 40680), (264, 40590), (285, 40563), (Start: 297 @40542 has 15 MA's), (307, 40515), (310, 40512), (Start: 318 @40500 has 13 MA's), (337, 40461), (413, 40323), (444, 40260), (451, 40245), (456, 40230), (464, 40212), (471, 40200), (476, 40188), (482, 40167), (488, 40119), (489, 40116), (493, 40092), (506, 40050), (509, 40044), (559, 39954), (577, 39930), (622, 39807), (650, 39753), (713, 39642), (728, 39621), (734, 39606), (753, 39546), (784, 39471), (785, 39468), (889, 39303), (958, 39183), (1036, 38985), (1042, 38979), (1068, 38919), (1099, 38856), (1121, 38826), (1137, 38802), (1141, 38796),

Gene: Neoevie_57 Start: 52863, Stop: 51451, Start Num: 375

Candidate Starts for Neoevie_57:

(177, 53211), (233, 53082), (288, 52995), (Start: 290 @52992 has 3 MA's), (Start: 375 @52863 has 28 MA's), (Start: 395 @52818 has 1 MA's), (443, 52728), (444, 52725), (448, 52719), (455, 52698), (483, 52635), (516, 52527), (525, 52509), (580, 52422), (583, 52407), (601, 52365), (635, 52284), (665, 52236), (690, 52194), (698, 52176), (700, 52173), (714, 52146), (758, 52095), (776, 52059), (794, 52008), (857, 51924), (867, 51903), (982, 51747), (985, 51741), (990, 51729), (1055, 51603), (1109, 51489),

Gene: Neptune_40 Start: 25911, Stop: 27818, Start Num: 68

Candidate Starts for Neptune_40:

(Start: 68 @25911 has 36 MA's), (93, 25974), (106, 25995), (122, 26049), (199, 26226), (229, 26271), (335, 26445), (339, 26454), (394, 26544), (543, 26787), (620, 26922), (624, 26934), (650, 26967), (777, 27096), (824, 27213), (888, 27288), (1009, 27522), (1010, 27525), (1037, 27585), (1080, 27675), (1097, 27705), (1126, 27747), (1163, 27798),

Gene: Neuville_38 Start: 26376, Stop: 24544, Start Num: 75

Candidate Starts for Neuville_38:

(Start: 75 @26376 has 19 MA's), (90, 26319), (174, 26118), (248, 25983), (329, 25848), (341, 25821), (438, 25764), (444, 25749), (467, 25695), (519, 25599), (522, 25593), (530, 25578), (557, 25533), (583, 25485), (590, 25464), (599, 25446), (624, 25395), (687, 25302), (693, 25290), (777, 25227), (808, 25155), (840, 25095), (875, 25074), (920, 25008), (933, 24990), (940, 24972), (942, 24969), (961, 24933), (1009, 24825), (1013, 24816), (1044, 24756), (1063, 24708),

Gene: Newt_58 Start: 53091, Stop: 51679, Start Num: 375

Candidate Starts for Newt_58:

(177, 53439), (233, 53310), (288, 53223), (Start: 290 @53220 has 3 MA's), (Start: 375 @53091 has 28 MA's), (Start: 395 @53046 has 1 MA's), (443, 52956), (444, 52953), (448, 52947), (455, 52926), (483, 52863), (516, 52755), (525, 52737), (580, 52650), (583, 52635), (601, 52593), (635, 52512), (665, 52464), (690, 52422), (698, 52404), (700, 52401), (714, 52374), (758, 52323), (776, 52287), (794, 52236), (857, 52152), (867, 52131), (982, 51975), (985, 51969), (990, 51957), (1055, 51831), (1109, 51717),

Gene: Niagara_57 Start: 53309, Stop: 51606, Start Num: 206

Candidate Starts for Niagara_57:

(Start: 206 @53309 has 9 MA's), (Start: 209 @53297 has 2 MA's), (Start: 316 @53114 has 5 MA's), (Start: 375 @53024 has 28 MA's), (381, 53015), (Start: 395 @52979 has 1 MA's), (Start: 408 @52955 has 1 MA's), (412, 52946), (416, 52937), (443, 52889), (453, 52865), (483, 52793), (485, 52772), (496, 52736), (498, 52733), (564, 52604), (568, 52601), (583, 52565), (584, 52562), (590, 52544), (595, 52535), (601, 52523), (621, 52475), (635, 52442), (665, 52394), (679, 52370), (714, 52304), (776, 52205), (811, 52106), (814, 52097), (856, 52073), (857, 52070), (937, 51977), (951, 51953), (953, 51950), (982, 51893), (990, 51875), (1048, 51758), (1050, 51755), (1057, 51743), (1109, 51644), (1125, 51623),

Gene: Nibbles_48 Start: 37634, Stop: 36144, Start Num: 277

Candidate Starts for Nibbles_48:

(Start: 277 @37634 has 49 MA's), (330, 37544), (Start: 343 @37517 has 1 MA's), (370, 37475), (391, 37433), (394, 37427), (Start: 408 @37400 has 1 MA's), (453, 37319), (454, 37316), (456, 37310), (465, 37289), (532, 37223), (596, 37133), (602, 37121), (649, 37043), (661, 37028), (762, 36911), (772, 36902), (799, 36824), (808, 36797), (811, 36785), (815, 36773), (857, 36734), (867, 36713), (868, 36710), (875, 36695), (907, 36623), (964, 36509), (981, 36464), (988, 36449), (998, 36419), (1013, 36395), (1036, 36344), (1038, 36341), (1055, 36314), (1085, 36248), (1097, 36224), (1121, 36191), (1146, 36155),

Gene: NickSell_41 Start: 31124, Stop: 29736, Start Num: 319

Candidate Starts for NickSell_41:

(39, 31775), (163, 31421), (197, 31346), (Start: 319 @31124 has 153 MA's), (405, 30980), (Start: 408 @30974 has 1 MA's), (410, 30971), (471, 30857), (511, 30830), (547, 30770), (572, 30743), (577, 30740), (622, 30644), (644, 30602), (777, 30440), (781, 30431), (790, 30410), (797, 30395), (801, 30383), (817, 30335), (874, 30275), (927, 30179), (960, 30116), (982, 30062), (1023, 29978), (1024, 29972), (1031, 29960), (1077, 29864), (1109, 29810), (1112, 29807), (1128, 29783),

Gene: Nightmare_73 Start: 48810, Stop: 50060, Start Num: 294

Candidate Starts for Nightmare_73:

(Start: 294 @48810 has 45 MA's), (299, 48819), (Start: 318 @48858 has 13 MA's), (358, 48936), (388, 48984), (Start: 395 @49002 has 1 MA's), (455, 49116), (518, 49188), (578, 49251), (587, 49281), (622, 49350), (677, 49443), (680, 49449), (700, 49485), (781, 49587), (992, 49764), (998, 49770), (1036, 49845), (1060, 49890), (1061, 49893), (1096, 49962),

Gene: Niktson_72 Start: 48385, Stop: 49617, Start Num: 294

Candidate Starts for Niktson_72:

(Start: 292 @48379 has 28 MA's), (Start: 294 @48385 has 45 MA's), (299, 48394), (312, 48424), (Start: 318 @48433 has 13 MA's), (358, 48511), (388, 48559), (455, 48691), (518, 48763), (578, 48826), (587, 48856), (622, 48925), (677, 49018), (680, 49024), (700, 49060), (781, 49162), (1013, 49369), (1036, 49420), (1047, 49435), (1057, 49453), (1060, 49465), (1061, 49468), (1096, 49537), (1107, 49555),

Gene: Nilo_68 Start: 47960, Stop: 49720, Start Num: 183

Candidate Starts for Nilo_68:

(Start: 183 @47960 has 10 MA's), (226, 48029), (Start: 294 @48125 has 45 MA's), (299, 48134), (Start: 342 @48215 has 7 MA's), (373, 48260), (509, 48461), (534, 48509), (573, 48569), (580, 48581), (605, 48647), (672, 48770), (688, 48794), (700, 48818), (777, 49022), (788, 49055), (794, 49070), (810, 49109), (811, 49112), (814, 49121), (865, 49190), (965, 49322), (1009, 49445), (1010, 49448), (1023, 49475), (1037, 49505), (1042, 49511), (1044, 49514), (1054, 49532), (1059, 49544), (1137, 49679), (1159, 49709),

Gene: Nimi13_57 Start: 52610, Stop: 51198, Start Num: 375

Candidate Starts for Nimi13_57:

(177, 52958), (233, 52829), (Start: 290 @52739 has 3 MA's), (Start: 375 @52610 has 28 MA's), (Start: 395 @52565 has 1 MA's), (443, 52475), (444, 52472), (448, 52466), (455, 52445), (483, 52382), (516, 52274), (525, 52256), (580, 52169), (583, 52154), (601, 52112), (635, 52031), (665, 51983), (690, 51941), (698, 51923), (700, 51920), (714, 51893), (758, 51842), (776, 51806), (794, 51755), (857, 51671), (867, 51650), (982, 51494), (985, 51488), (990, 51476), (1055, 51350), (1109, 51236),

Gene: Nina_53 Start: 39329, Stop: 37851, Start Num: 277

Candidate Starts for Nina_53:

(Start: 277 @39329 has 49 MA's), (328, 39242), (330, 39236), (379, 39155), (453, 39011), (454, 39008), (596, 38825), (599, 38819), (602, 38813), (649, 38735), (740, 38621), (772, 38594), (781, 38570), (801, 38510), (815, 38465), (830, 38444), (867, 38405), (875, 38387), (939, 38270), (964, 38222), (966, 38219), (971, 38204), (1013, 38108), (1023, 38087), (1036, 38057),

Gene: Nirvana_129 Start: 85649, Stop: 84003, Start Num: 255

Candidate Starts for Nirvana_129:

(Start: 255 @85649 has 9 MA's), (321, 85541), (332, 85517), (339, 85502), (341, 85499), (443, 85322), (514, 85220), (558, 85145), (561, 85142), (649, 84968), (678, 84926), (712, 84869), (767, 84803), (803, 84707), (828, 84650), (860, 84596), (865, 84584), (870, 84569), (892, 84521), (946, 84407), (962, 84377), (974, 84347), (979, 84335), (1056, 84179), (1057, 84176), (1129, 84047),

Gene: Nish23_63 Start: 46151, Stop: 48148, Start Num: 85

Candidate Starts for Nish23_63:

(Start: 51 @46091 has 11 MA's), (85, 46151), (86, 46154), (119, 46247), (124, 46259), (129, 46280), (177, 46403), (179, 46406), (182, 46415), (199, 46448), (208, 46469), (225, 46517), (251, 46559), (Start: 297 @46622 has 15 MA's), (Start: 306 @46643 has 28 MA's), (310, 46649), (Start: 342 @46703 has 7 MA's), (453, 46889), (457, 46901), (470, 46919), (509, 46934), (512, 46940), (688, 47258), (690, 47261), (716, 47306), (773, 47357), (777, 47369), (810, 47459), (814, 47471), (835, 47504), (851, 47528), (856, 47537), (942, 47627), (958, 47660), (1008, 47771), (1009, 47774), (1010, 47777), (1012, 47780), (1027, 47816), (1037, 47834), (1068, 47900), (1078, 47918), (1171, 48095),

Gene: Nithya_86 Start: 54931, Stop: 56145, Start Num: 295

Candidate Starts for Nithya_86:

(Start: 295 @54931 has 213 MA's), (299, 54937), (Start: 327 @54991 has 23 MA's), (328, 54994), (333, 55006), (347, 55033), (349, 55036), (359, 55057), (392, 55099), (413, 55141), (433, 55174), (452, 55213), (518, 55291), (519, 55294), (578, 55354), (623, 55456), (671, 55537), (677, 55546), (698, 55585), (717, 55612), (725, 55624), (760, 55651), (765, 55660), (776, 55678), (779, 55687), (781, 55690), (784, 55699), (799, 55744), (807, 55768), (814, 55792), (865, 55822), (910, 55837), (1018, 55909), (1068, 56017), (1096, 56068), (1115, 56095), (1138, 56128),

Gene: Nivinsha_74 Start: 47947, Stop: 49179, Start Num: 294

Candidate Starts for Nivinsha_74:

(Start: 294 @47947 has 45 MA's), (299, 47956), (Start: 318 @47995 has 13 MA's), (388, 48121), (455, 48253), (518, 48325), (578, 48388), (587, 48418), (622, 48487), (677, 48580), (680, 48586), (700, 48622), (781, 48724), (1013, 48931), (1036, 48982), (1047, 48997), (1060, 49027), (1061, 49030), (1096, 49099), (1107, 49117),

Gene: NoPickles_88 Start: 53473, Stop: 54693, Start Num: 295

Candidate Starts for NoPickles_88:

(Start: 295 @53473 has 213 MA's), (Start: 327 @53533 has 23 MA's), (328, 53536), (347, 53575), (359, 53599), (392, 53641), (413, 53683), (433, 53716), (452, 53755), (455, 53761), (509, 53812), (518, 53833), (578, 53896), (623, 53998), (639, 54028), (650, 54046), (671, 54079), (677, 54088), (717, 54154), (722, 54163), (725, 54166), (765, 54202), (773, 54211), (776, 54220), (781, 54232), (798, 54283), (799, 54286), (814, 54337), (819, 54346), (992, 54415), (1018, 54454), (1068, 54562),

(1086, 54595), (1096, 54613), (1115, 54640),

Gene: NoShow_58 Start: 42406, Stop: 40934, Start Num: 282

Candidate Starts for NoShow_58:

(Start: 282 @42406 has 2 MA's), (330, 42316), (Start: 343 @42289 has 1 MA's), (383, 42229), (443, 42115), (455, 42085), (596, 41905), (599, 41899), (602, 41893), (649, 41815), (793, 41614), (815, 41542), (817, 41539), (825, 41527), (867, 41482), (903, 41422), (919, 41392), (971, 41281), (992, 41227), (1013, 41185), (1036, 41134), (1085, 41038), (1099, 41011), (1131, 40966),

Gene: Nodigi_60 Start: 41112, Stop: 39637, Start Num: 280

Candidate Starts for Nodigi_60:

(213, 41229), (216, 41223), (Start: 280 @41112 has 11 MA's), (Start: 303 @41070 has 4 MA's), (330, 41022), (Start: 343 @40995 has 1 MA's), (388, 40920), (391, 40911), (394, 40905), (443, 40821), (451, 40803), (454, 40794), (456, 40788), (577, 40665), (596, 40611), (599, 40605), (602, 40599), (639, 40536), (649, 40521), (661, 40506), (797, 40308), (808, 40275), (825, 40236), (867, 40191), (901, 40128), (904, 40122), (907, 40116), (919, 40095), (926, 40080), (940, 40047), (942, 40044), (966, 39999), (988, 39942), (1013, 39888), (1036, 39837), (1066, 39774), (1093, 39726), (1104, 39705),

Gene: Nonagon_72 Start: 46348, Stop: 44768, Start Num: 242

Candidate Starts for Nonagon_72:

(202, 46438), (Start: 242 @46348 has 2 MA's), (274, 46297), (285, 46282), (333, 46189), (339, 46174), (357, 46144), (370, 46129), (390, 46105), (404, 46078), (435, 46033), (454, 45994), (460, 45979), (511, 45937), (539, 45883), (580, 45820), (619, 45730), (625, 45715), (636, 45694), (679, 45637), (692, 45616), (759, 45532), (785, 45481), (822, 45388), (833, 45373), (849, 45349), (860, 45334), (862, 45331), (870, 45307), (872, 45301), (878, 45286), (929, 45202), (936, 45181), (938, 45178), (952, 45148), (954, 45145), (983, 45076), (989, 45064), (1007, 45022), (1010, 45016), (1027, 44977), (1040, 44953), (1077, 44872), (1103, 44830), (1105, 44827),

Gene: NorManre_63 Start: 40960, Stop: 42873, Start Num: 58

Candidate Starts for NorManre_63:

(18, 40834), (21, 40843), (24, 40855), (33, 40888), (Start: 55 @40957 has 13 MA's), (Start: 58 @40960 has 23 MA's), (Start: 76 @40972 has 2 MA's), (Start: 89 @41020 has 2 MA's), (125, 41122), (155, 41212), (172, 41239), (175, 41248), (219, 41320), (Start: 297 @41440 has 15 MA's), (331, 41503), (Start: 387 @41593 has 1 MA's), (401, 41620), (509, 41749), (519, 41773), (542, 41815), (577, 41863), (583, 41884), (590, 41905), (620, 41962), (627, 41980), (652, 42016), (679, 42058), (716, 42118), (788, 42214), (790, 42217), (915, 42394), (951, 42445), (992, 42535), (1009, 42571), (1012, 42577), (1037, 42631), (1059, 42670), (1112, 42772), (1123, 42787), (1137, 42808), (1168, 42865),

Gene: NosilaM_73 Start: 56110, Stop: 54188, Start Num: 98

Candidate Starts for NosilaM_73:

(Start: 35 @56275 has 35 MA's), (Start: 98 @56110 has 1 MA's), (101, 56107), (198, 55852), (269, 55744), (Start: 306 @55690 has 28 MA's), (341, 55627), (394, 55537), (Start: 395 @55534 has 1 MA's), (Start: 408 @55510 has 1 MA's), (441, 55474), (542, 55336), (553, 55318), (562, 55309), (573, 55294), (627, 55171), (670, 55087), (688, 55060), (700, 55036), (777, 54937), (796, 54883), (819, 54829), (847, 54787), (876, 54748), (921, 54679), (939, 54646), (956, 54610), (977, 54565), (981, 54553), (1009, 54493), (1040, 54430), (1133, 54265),

Gene: Nova_52 Start: 40183, Stop: 42126, Start Num: 65

Candidate Starts for Nova_52:

(40, 40120), (Start: 65 @40183 has 24 MA's), (80, 40210), (104, 40282), (121, 40336), (140, 40396), (151, 40423), (174, 40474), (175, 40477), (193, 40516), (219, 40552), (269, 40639), (329, 40732), (335, 40747), (347, 40768), (414, 40870), (438, 40903), (450, 40927), (512, 40987), (562, 41074), (596, 41149), (652, 41239), (688, 41290), (690, 41293), (764, 41383), (777, 41401), (788, 41434),

(814, 41500), (824, 41518), (865, 41581), (939, 41665), (992, 41782), (1009, 41830), (1040, 41893), (1078, 41977),

Gene: NovaSharks_62 Start: 39405, Stop: 41321, Start Num: 55

Candidate Starts for NovaSharks_62:

(Start: 55 @39405 has 13 MA's), (Start: 58 @39408 has 23 MA's), (Start: 76 @39420 has 2 MA's), (Start: 89 @39468 has 2 MA's), (Start: 103 @39501 has 1 MA's), (155, 39660), (172, 39687), (175, 39696), (219, 39768), (Start: 297 @39888 has 15 MA's), (331, 39951), (Start: 387 @40041 has 1 MA's), (401, 40068), (509, 40197), (519, 40221), (542, 40263), (548, 40275), (562, 40290), (577, 40311), (583, 40332), (590, 40353), (620, 40410), (627, 40428), (652, 40464), (679, 40506), (716, 40566), (788, 40662), (790, 40665), (915, 40842), (951, 40893), (992, 40983), (1009, 41019), (1012, 41025), (1037, 41079), (1059, 41118), (1112, 41220), (1123, 41235), (1137, 41256),

Gene: NovumRegina_72 Start: 56100, Stop: 54034, Start Num: 35

Candidate Starts for NovumRegina_72:

(8, 56304), (9, 56292), (11, 56274), (Start: 35 @56100 has 35 MA's), (Start: 89 @55962 has 2 MA's), (96, 55938), (175, 55734), (198, 55689), (269, 55581), (339, 55467), (341, 55464), (394, 55374), (Start: 395 @55371 has 1 MA's), (441, 55311), (542, 55173), (553, 55155), (573, 55131), (627, 55008), (688, 54903), (777, 54777), (796, 54723), (865, 54597), (876, 54588), (885, 54564), (939, 54492), (942, 54486), (956, 54456), (981, 54399), (1009, 54339), (1040, 54276), (1078, 54195),

Gene: Nubia_29 Start: 22080, Stop: 23471, Start Num: 295

Candidate Starts for Nubia_29:

(Start: 295 @22080 has 213 MA's), (Start: 343 @22167 has 1 MA's), (Start: 387 @22239 has 1 MA's), (388, 22242), (419, 22308), (429, 22326), (433, 22332), (452, 22359), (512, 22416), (540, 22467), (580, 22506), (590, 22542), (599, 22560), (610, 22596), (620, 22617), (627, 22635), (650, 22668), (681, 22707), (704, 22749), (719, 22776), (742, 22800), (775, 22836), (777, 22842), (788, 22875), (794, 22890), (797, 22899), (817, 22944), (865, 22977), (866, 22980), (953, 23085), (961, 23097), (969, 23115), (1009, 23205), (1019, 23226), (1020, 23229), (1031, 23253), (1034, 23262), (1072, 23349), (1113, 23400), (1140, 23439), (1156, 23463),

Gene: Nucci_39 Start: 30618, Stop: 29206, Start Num: 327

Candidate Starts for Nucci_39:

(Start: 323 @30621 has 8 MA's), (Start: 327 @30618 has 23 MA's), (339, 30588), (Start: 343 @30582 has 1 MA's), (364, 30549), (Start: 408 @30474 has 1 MA's), (411, 30468), (471, 30357), (511, 30330), (540, 30279), (547, 30270), (572, 30243), (577, 30240), (590, 30198), (622, 30144), (727, 29988), (778, 29937), (781, 29931), (790, 29910), (794, 29904), (797, 29895), (801, 29883), (805, 29871), (846, 29793), (874, 29733), (876, 29727), (903, 29679), (925, 29637), (960, 29574), (967, 29562), (976, 29538), (977, 29535), (1009, 29466), (1013, 29457), (1020, 29442), (1023, 29436), (1024, 29430), (1031, 29418), (1082, 29313), (1093, 29295), (1099, 29283), (1131, 29238),

Gene: OMalley_26 Start: 21745, Stop: 23139, Start Num: 295

Candidate Starts for OMalley_26:

(Start: 295 @21745 has 213 MA's), (328, 21802), (379, 21889), (Start: 387 @21907 has 1 MA's), (388, 21910), (429, 21994), (452, 22027), (509, 22078), (512, 22084), (547, 22144), (580, 22174), (590, 22210), (599, 22228), (620, 22285), (627, 22303), (630, 22309), (650, 22336), (704, 22417), (719, 22444), (742, 22468), (761, 22483), (777, 22510), (788, 22543), (794, 22558), (924, 22690), (940, 22726), (953, 22753), (961, 22765), (969, 22783), (1009, 22873), (1012, 22879), (1019, 22894), (1020, 22897), (1034, 22930), (1063, 22990), (1072, 23017), (1117, 23074), (1140, 23107), (1156, 23131),

Gene: Oaker_60 Start: 46344, Stop: 48401, Start Num: 51

Candidate Starts for Oaker_60:

(Start: 51 @46344 has 11 MA's), (85, 46404), (86, 46407), (119, 46500), (124, 46512), (129, 46533), (177, 46656), (179, 46659), (182, 46668), (199, 46701), (208, 46722), (225, 46770), (251, 46812), (Start: 297 @46875 has 15 MA's), (Start: 306 @46896 has 28 MA's), (310, 46902), (Start: 342 @46956 has 7 MA's), (453, 47142), (457, 47154), (470, 47172), (509, 47187), (512, 47193), (688, 47511), (690, 47514), (716, 47559), (773, 47610), (777, 47622), (810, 47712), (814, 47724), (835, 47757), (851, 47781), (856, 47790), (942, 47880), (958, 47913), (1008, 48024), (1009, 48027), (1010, 48030), (1012, 48033), (1027, 48069), (1037, 48087), (1068, 48153), (1078, 48171), (1171, 48348),

Gene: Oats_40 Start: 30816, Stop: 29428, Start Num: 319

Candidate Starts for Oats_40:

(197, 31038), (Start: 319 @30816 has 153 MA's), (405, 30672), (Start: 408 @30666 has 1 MA's), (410, 30663), (471, 30549), (511, 30522), (547, 30462), (572, 30435), (577, 30432), (617, 30339), (622, 30336), (644, 30294), (781, 30123), (790, 30102), (797, 30087), (801, 30075), (817, 30027), (874, 29967), (927, 29871), (960, 29808), (982, 29754), (1023, 29670), (1024, 29664), (1031, 29652), (1066, 29577), (1077, 29556), (1109, 29502), (1112, 29499), (1128, 29475),

Gene: Odesza_86 Start: 53513, Stop: 54733, Start Num: 295

Candidate Starts for Odesza_86:

(Start: 295 @53513 has 213 MA's), (Start: 327 @53573 has 23 MA's), (328, 53576), (347, 53615), (359, 53639), (392, 53681), (413, 53723), (433, 53756), (452, 53795), (455, 53801), (509, 53852), (518, 53873), (578, 53936), (623, 54038), (639, 54068), (650, 54086), (671, 54119), (677, 54128), (717, 54194), (722, 54203), (725, 54206), (765, 54242), (773, 54251), (776, 54260), (781, 54272), (798, 54323), (799, 54326), (814, 54377), (819, 54386), (992, 54455), (1018, 54494), (1068, 54602), (1086, 54635), (1096, 54653), (1115, 54680),

Gene: OhDear_40 Start: 25909, Stop: 27816, Start Num: 68

Candidate Starts for OhDear_40:

(Start: 68 @25909 has 36 MA's), (93, 25972), (106, 25993), (122, 26047), (199, 26224), (229, 26269), (335, 26443), (339, 26452), (394, 26542), (422, 26599), (543, 26785), (620, 26920), (624, 26932), (650, 26965), (777, 27094), (824, 27211), (888, 27286), (1009, 27520), (1010, 27523), (1037, 27583), (1080, 27673), (1097, 27703), (1126, 27745), (1163, 27796),

Gene: OhMyWard_81 Start: 54856, Stop: 56073, Start Num: 295

Candidate Starts for OhMyWard_81:

(Start: 295 @54856 has 213 MA's), (Start: 327 @54916 has 23 MA's), (333, 54931), (347, 54958), (359, 54982), (392, 55024), (413, 55066), (429, 55093), (518, 55216), (519, 55219), (578, 55279), (604, 55345), (639, 55411), (671, 55462), (673, 55465), (677, 55471), (698, 55510), (711, 55528), (715, 55534), (717, 55537), (725, 55549), (755, 55570), (765, 55585), (773, 55594), (776, 55603), (781, 55615), (784, 55624), (799, 55669), (805, 55687), (807, 55693), (819, 55726), (1018, 55834), (1029, 55861), (1036, 55876), (1079, 55963), (1086, 55975), (1115, 56020),

Gene: OldNelly_42 Start: 31120, Stop: 29732, Start Num: 319

Candidate Starts for OldNelly_42:

(197, 31342), (Start: 319 @31120 has 153 MA's), (405, 30976), (Start: 408 @30970 has 1 MA's), (410, 30967), (471, 30853), (511, 30826), (547, 30766), (572, 30739), (577, 30736), (580, 30730), (622, 30640), (644, 30598), (781, 30427), (797, 30391), (801, 30379), (811, 30346), (817, 30331), (874, 30271), (927, 30175), (960, 30112), (982, 30058), (1023, 29974), (1024, 29968), (1031, 29956), (1077, 29860), (1109, 29806), (1112, 29803), (1128, 29779),

Gene: OlgasClover_88 Start: 55765, Stop: 56979, Start Num: 295

Candidate Starts for OlgasClover_88:

(Start: 295 @55765 has 213 MA's), (299, 55771), (Start: 327 @55825 has 23 MA's), (328, 55828), (333, 55840), (347, 55867), (349, 55870), (359, 55891), (392, 55933), (413, 55975), (433, 56008),

(452, 56047), (518, 56125), (519, 56128), (578, 56188), (623, 56290), (639, 56320), (657, 56347), (671, 56371), (677, 56380), (698, 56419), (700, 56422), (717, 56446), (725, 56458), (760, 56485), (765, 56494), (776, 56512), (779, 56521), (781, 56524), (784, 56533), (798, 56575), (807, 56602), (814, 56626), (865, 56656), (1018, 56743), (1068, 56851), (1096, 56902), (1115, 56929), (1138, 56962),

Gene: OlinDD_77 Start: 49475, Stop: 47952, Start Num: 292

Candidate Starts for OlinDD_77:

(246, 49541), (262, 49514), (Start: 292 @49475 has 28 MA's), (374, 49325), (383, 49316), (429, 49220), (448, 49187), (457, 49160), (511, 49106), (535, 49061), (537, 49058), (590, 48953), (592, 48950), (661, 48827), (665, 48818), (674, 48806), (707, 48752), (781, 48659), (819, 48551), (840, 48521), (844, 48515), (846, 48512), (848, 48509), (865, 48476), (869, 48464), (936, 48338), (962, 48290), (1010, 48200), (1019, 48182), (1042, 48134), (1105, 48011),

Gene: Olympi_35 Start: 23358, Stop: 24785, Start Num: 298

Candidate Starts for Olympi_35:

(Start: 298 @23358 has 19 MA's), (414, 23574), (464, 23676), (511, 23715), (547, 23778), (583, 23823), (590, 23844), (630, 23943), (740, 24111), (777, 24159), (785, 24180), (794, 24207), (807, 24234), (817, 24264), (821, 24270), (903, 24306), (944, 24384), (991, 24486), (992, 24489), (1034, 24576), (1043, 24588), (1061, 24627), (1072, 24663), (1082, 24681), (1134, 24744),

Gene: OlympicHelado_83 Start: 49870, Stop: 51054, Start Num: 295

Candidate Starts for OlympicHelado_83:

(Start: 295 @49870 has 213 MA's), (Start: 318 @49915 has 13 MA's), (333, 49945), (455, 50116), (518, 50188), (547, 50227), (587, 50290), (677, 50452), (698, 50491), (701, 50497), (720, 50524), (781, 50596), (799, 50650), (807, 50674), (814, 50698), (817, 50704), (909, 50728), (978, 50734), (1036, 50848), (1086, 50947), (1089, 50953), (1107, 50983), (1115, 50992), (1153, 51046),

Gene: Onestar_73 Start: 46327, Stop: 47556, Start Num: 295

Candidate Starts for Onestar_73:

(Start: 295 @46327 has 213 MA's), (388, 46498), (455, 46630), (518, 46702), (578, 46765), (587, 46795), (657, 46924), (671, 46948), (677, 46957), (698, 46996), (781, 47101), (1079, 47446), (1107, 47494),

Gene: Onyinye_65 Start: 45953, Stop: 47881, Start Num: 65

Candidate Starts for Onyinye_65:

(Start: 65 @45953 has 24 MA's), (79, 45974), (87, 46004), (Start: 120 @46103 has 3 MA's), (140, 46166), (172, 46238), (175, 46247), (199, 46295), (335, 46511), (347, 46532), (360, 46553), (363, 46556), (378, 46568), (390, 46595), (459, 46718), (512, 46754), (548, 46826), (555, 46835), (580, 46868), (601, 46925), (606, 46937), (652, 47006), (660, 47015), (672, 47033), (688, 47057), (773, 47153), (777, 47165), (788, 47198), (807, 47240), (841, 47303), (922, 47408), (1024, 47624), (1037, 47648), (1040, 47651), (1060, 47693), (1071, 47723), (1087, 47747), (1166, 47864),

Gene: Orchid_57 Start: 50422, Stop: 48932, Start Num: 313

Candidate Starts for Orchid_57:

(Start: 313 @50422 has 5 MA's), (381, 50329), (385, 50320), (389, 50308), (Start: 395 @50293 has 1 MA's), (Start: 408 @50275 has 1 MA's), (444, 50218), (476, 50146), (477, 50143), (494, 50050), (507, 50017), (521, 49984), (523, 49981), (536, 49960), (580, 49891), (590, 49855), (628, 49768), (665, 49705), (666, 49702), (685, 49672), (723, 49600), (731, 49591), (805, 49468), (807, 49462), (933, 49330), (953, 49288), (978, 49243), (990, 49213), (1116, 48961),

Gene: Orla_60 Start: 41041, Stop: 39566, Start Num: 280

Candidate Starts for Orla_60:

(Start: 280 @41041 has 11 MA's), (Start: 303 @40999 has 4 MA's), (330, 40951), (Start: 343 @40924 has 1 MA's), (388, 40849), (391, 40840), (394, 40834), (443, 40750), (451, 40732), (454, 40723), (456, 40717), (577, 40594), (596, 40540), (599, 40534), (602, 40528), (639, 40465), (649, 40450), (661, 40435), (797, 40237), (808, 40204), (825, 40165), (867, 40120), (901, 40057), (904, 40051), (907, 40045), (940, 39976), (942, 39973), (966, 39928), (988, 39871), (1013, 39817), (1036, 39766), (1093, 39655), (1104, 39634),

Gene: Ottawa_61 Start: 33948, Stop: 35849, Start Num: 107

Candidate Starts for Ottawa_61:

(77, 33855), (Start: 107 @33948 has 2 MA's), (Start: 130 @34035 has 2 MA's), (149, 34089), (170, 34140), (194, 34188), (204, 34212), (265, 34338), (Start: 272 @34347 has 1 MA's), (386, 34533), (405, 34575), (518, 34722), (538, 34743), (578, 34800), (586, 34824), (603, 34866), (622, 34902), (706, 35040), (783, 35142), (854, 35268), (866, 35292), (882, 35334), (1020, 35619), (1057, 35682), (1067, 35712), (1120, 35793), (1129, 35808),

Gene: OtterstedtS21_60 Start: 40582, Stop: 42495, Start Num: 58

Candidate Starts for OtterstedtS21_60:

(Start: 55 @40579 has 13 MA's), (Start: 58 @40582 has 23 MA's), (Start: 76 @40594 has 2 MA's), (Start: 89 @40642 has 2 MA's), (Start: 103 @40675 has 1 MA's), (125, 40744), (155, 40834), (172, 40861), (175, 40870), (219, 40942), (269, 41029), (Start: 297 @41062 has 15 MA's), (331, 41125), (Start: 387 @41215 has 1 MA's), (509, 41371), (519, 41395), (542, 41437), (577, 41485), (583, 41506), (590, 41527), (620, 41584), (652, 41638), (679, 41680), (716, 41740), (788, 41836), (790, 41839), (915, 42016), (951, 42067), (992, 42157), (1009, 42193), (1012, 42199), (1037, 42253), (1059, 42292), (1112, 42394), (1123, 42409), (1137, 42430),

Gene: Outis_73 Start: 56760, Stop: 54685, Start Num: 35

Candidate Starts for Outis_73:

(Start: 35 @56760 has 35 MA's), (85, 56640), (Start: 98 @56595 has 1 MA's), (101, 56592), (198, 56349), (239, 56292), (269, 56241), (Start: 306 @56187 has 28 MA's), (341, 56124), (394, 56034), (Start: 395 @56031 has 1 MA's), (Start: 408 @56007 has 1 MA's), (441, 55971), (553, 55815), (573, 55791), (627, 55668), (688, 55557), (700, 55533), (777, 55434), (796, 55380), (819, 55326), (847, 55284), (876, 55245), (921, 55176), (939, 55143), (956, 55107), (977, 55062), (981, 55050), (1009, 54990), (1040, 54927), (1078, 54846), (1133, 54762),

Gene: OverHedge_40 Start: 25901, Stop: 27808, Start Num: 68

Candidate Starts for OverHedge_40:

(Start: 68 @25901 has 36 MA's), (93, 25964), (106, 25985), (122, 26039), (199, 26216), (229, 26261), (335, 26435), (339, 26444), (394, 26534), (422, 26591), (543, 26777), (620, 26912), (624, 26924), (650, 26957), (777, 27086), (824, 27203), (888, 27278), (1009, 27512), (1010, 27515), (1037, 27575), (1080, 27665), (1097, 27695), (1126, 27737), (1163, 27788),

Gene: Oxtobor96_42 Start: 31119, Stop: 29731, Start Num: 319

Candidate Starts for Oxtobor96_42:

(39, 31770), (163, 31416), (197, 31341), (Start: 319 @31119 has 153 MA's), (405, 30975), (Start: 408 @30969 has 1 MA's), (410, 30966), (471, 30852), (511, 30825), (547, 30765), (572, 30738), (577, 30735), (622, 30639), (644, 30597), (781, 30426), (790, 30405), (801, 30378), (817, 30330), (874, 30270), (960, 30111), (982, 30057), (1023, 29973), (1024, 29967), (1031, 29955), (1077, 29859), (1109, 29805), (1112, 29802), (1128, 29778),

Gene: Oxynfrius_29 Start: 22093, Stop: 23484, Start Num: 295

Candidate Starts for Oxynfrius_29:

(Start: 295 @22093 has 213 MA's), (Start: 343 @22180 has 1 MA's), (Start: 387 @22252 has 1 MA's), (388, 22255), (419, 22321), (429, 22339), (433, 22345), (452, 22372), (512, 22429), (540, 22480),

(580, 22519), (590, 22555), (599, 22573), (610, 22609), (620, 22630), (627, 22648), (650, 22681), (681, 22720), (704, 22762), (719, 22789), (742, 22813), (775, 22849), (777, 22855), (788, 22888), (794, 22903), (797, 22912), (817, 22957), (865, 22990), (866, 22993), (953, 23098), (961, 23110), (969, 23128), (1009, 23218), (1019, 23239), (1020, 23242), (1031, 23266), (1034, 23275), (1072, 23362), (1113, 23413), (1140, 23452), (1156, 23476),

Gene: P1201_75 Start: 57035, Stop: 55065, Start Num: 74

Candidate Starts for P1201_75:

(Start: 74 @57035 has 16 MA's), (121, 56897), (128, 56873), (181, 56741), (258, 56618), (269, 56600), (Start: 275 @56597 has 1 MA's), (394, 56390), (512, 56249), (650, 55979), (666, 55955), (679, 55934), (709, 55886), (777, 55790), (788, 55757), (811, 55700), (813, 55694), (814, 55691), (942, 55502), (1024, 55319), (1040, 55292), (1068, 55229), (1078, 55211),

Gene: PBI1_50 Start: 39660, Stop: 41603, Start Num: 65

Candidate Starts for PBI1_50:

(Start: 65 @39660 has 24 MA's), (80, 39687), (104, 39759), (121, 39813), (140, 39873), (146, 39891), (151, 39900), (174, 39951), (193, 39993), (219, 40029), (269, 40116), (329, 40209), (335, 40224), (347, 40245), (414, 40347), (438, 40380), (450, 40404), (512, 40464), (562, 40551), (596, 40626), (652, 40716), (688, 40767), (690, 40770), (764, 40860), (777, 40878), (788, 40911), (810, 40965), (814, 40977), (824, 40995), (865, 41058), (939, 41142), (992, 41259), (1009, 41307), (1040, 41370), (1078, 41454),

Gene: PHTowN_70 Start: 50156, Stop: 48270, Start Num: 61

Candidate Starts for PHTowN_70:

(Start: 38 @50216 has 1 MA's), (Start: 61 @50156 has 8 MA's), (73, 50141), (93, 50078), (97, 50069), (106, 50057), (137, 49964), (161, 49901), (170, 49883), (199, 49826), (219, 49802), (312, 49643), (335, 49604), (339, 49595), (402, 49487), (462, 49379), (542, 49274), (595, 49175), (624, 49115), (687, 49028), (688, 49025), (788, 48920), (792, 48911), (796, 48899), (865, 48800), (904, 48761), (951, 48683), (958, 48671), (971, 48644), (1010, 48554), (1018, 48539), (1044, 48485), (1068, 48428), (1149, 48302),

Gene: PLOT_53 Start: 39756, Stop: 41699, Start Num: 65

Candidate Starts for PLOT_53:

(40, 39693), (Start: 65 @39756 has 24 MA's), (80, 39783), (104, 39855), (121, 39909), (140, 39969), (151, 39996), (174, 40047), (193, 40089), (219, 40125), (269, 40212), (329, 40305), (335, 40320), (347, 40341), (414, 40443), (438, 40476), (450, 40500), (512, 40560), (562, 40647), (596, 40722), (652, 40812), (688, 40863), (690, 40866), (764, 40956), (777, 40974), (788, 41007), (814, 41073), (824, 41091), (865, 41154), (939, 41238), (992, 41355), (1009, 41403), (1040, 41466), (1078, 41550),

Gene: PSirce_40 Start: 31102, Stop: 29690, Start Num: 327

Candidate Starts for PSirce_40:

(Start: 323 @31105 has 8 MA's), (Start: 327 @31102 has 23 MA's), (339, 31072), (Start: 343 @31066 has 1 MA's), (364, 31033), (471, 30841), (511, 30814), (547, 30754), (572, 30727), (577, 30724), (590, 30682), (602, 30658), (622, 30628), (644, 30586), (781, 30415), (790, 30394), (797, 30379), (801, 30367), (805, 30355), (806, 30352), (811, 30334), (857, 30253), (874, 30217), (903, 30163), (925, 30121), (940, 30091), (953, 30067), (957, 30061), (976, 30022), (977, 30019), (1009, 29950), (1020, 29926), (1023, 29920), (1024, 29914), (1031, 29902), (1077, 29806), (1082, 29797), (1093, 29779), (1099, 29767), (1131, 29722),

Gene: Paella_140 Start: 73635, Stop: 74879, Start Num: 294

Candidate Starts for Paella_140:

(Start: 294 @73635 has 45 MA's), (312, 73674), (Start: 318 @73683 has 13 MA's), (388, 73809), (413, 73863), (578, 74076), (587, 74106), (622, 74175), (677, 74268), (773, 74391), (781, 74412), (805,

74484), (824, 74532), (867, 74550), (1012, 74616), (1047, 74685), (1068, 74736), (1096, 74787), (1107, 74805),

Gene: Pajaza_37 Start: 29766, Stop: 28396, Start Num: 327

Candidate Starts for Pajaza_37:

(Start: 327 @29766 has 23 MA's), (400, 29637), (411, 29616), (471, 29505), (472, 29502), (542, 29418), (547, 29412), (563, 29400), (577, 29382), (583, 29361), (622, 29286), (639, 29253), (777, 29082), (778, 29079), (781, 29073), (782, 29070), (797, 29037), (817, 28977), (874, 28917), (876, 28911), (877, 28908), (878, 28905), (925, 28821), (990, 28689), (1009, 28650), (1020, 28626), (1023, 28620), (1031, 28602), (1077, 28506), (1093, 28479), (1099, 28467), (1123, 28434), (1131, 28422),

Gene: Panchaali_92 Start: 77571, Stop: 79412, Start Num: 71

Candidate Starts for Panchaali_92:

(Start: 71 @77571 has 13 MA's), (159, 77829), (169, 77844), (248, 77949), (269, 77985), (Start: 293 @78015 has 5 MA's), (329, 78084), (333, 78093), (337, 78105), (356, 78138), (497, 78264), (601, 78477), (623, 78522), (665, 78582), (693, 78627), (730, 78684), (777, 78690), (788, 78723), (793, 78735), (797, 78747), (878, 78864), (879, 78867), (903, 78891), (924, 78933), (940, 78960), (956, 78993), (969, 79017), (993, 79077), (1040, 79170), (1054, 79194), (1147, 79362), (1149, 79365),

Gene: Papafritta_40 Start: 30824, Stop: 29436, Start Num: 319

Candidate Starts for Papafritta_40:

(163, 31121), (197, 31046), (Start: 319 @30824 has 153 MA's), (405, 30680), (Start: 408 @30674 has 1 MA's), (410, 30671), (471, 30557), (511, 30530), (547, 30470), (572, 30443), (577, 30440), (622, 30344), (644, 30302), (781, 30131), (790, 30110), (797, 30095), (817, 30035), (863, 30002), (874, 29975), (927, 29879), (960, 29816), (982, 29762), (1023, 29678), (1024, 29672), (1031, 29660), (1077, 29564), (1109, 29510), (1112, 29507), (1128, 29483),

Gene: Papyrus_66 Start: 47571, Stop: 49331, Start Num: 183

Candidate Starts for Papyrus_66:

(Start: 183 @47571 has 10 MA's), (226, 47640), (Start: 294 @47736 has 45 MA's), (299, 47745), (Start: 342 @47826 has 7 MA's), (373, 47871), (509, 48072), (534, 48120), (573, 48180), (580, 48192), (605, 48258), (672, 48381), (688, 48405), (700, 48429), (777, 48633), (788, 48666), (794, 48681), (810, 48720), (811, 48723), (814, 48732), (865, 48801), (965, 48933), (1009, 49056), (1010, 49059), (1023, 49086), (1037, 49116), (1042, 49122), (1044, 49125), (1054, 49143), (1059, 49155), (1137, 49290), (1157, 49317), (1159, 49320),

Gene: ParleG_41 Start: 31121, Stop: 29733, Start Num: 319

Candidate Starts for ParleG_41:

(39, 31772), (163, 31418), (197, 31343), (Start: 319 @31121 has 153 MA's), (405, 30977), (Start: 408 @30971 has 1 MA's), (410, 30968), (471, 30854), (511, 30827), (547, 30767), (572, 30740), (577, 30737), (622, 30641), (644, 30599), (777, 30437), (781, 30428), (790, 30407), (797, 30392), (801, 30380), (817, 30332), (874, 30272), (927, 30176), (960, 30113), (982, 30059), (1023, 29975), (1024, 29969), (1031, 29957), (1077, 29861), (1109, 29807), (1112, 29804), (1128, 29780),

Gene: PartyCup_29 Start: 22162, Stop: 23556, Start Num: 295

Candidate Starts for PartyCup_29:

(Start: 295 @22162 has 213 MA's), (328, 22219), (Start: 387 @22324 has 1 MA's), (429, 22411), (509, 22495), (511, 22498), (512, 22501), (580, 22591), (590, 22627), (595, 22636), (599, 22645), (620, 22702), (627, 22720), (650, 22753), (660, 22765), (704, 22834), (719, 22861), (742, 22885), (775, 22921), (777, 22927), (788, 22960), (794, 22975), (797, 22984), (904, 23074), (940, 23143), (953, 23170), (963, 23188), (969, 23200), (1009, 23290), (1012, 23296), (1017, 23305), (1019, 23311), (1034, 23347), (1072, 23434), (1117, 23491), (1140, 23524), (1156, 23548),

Gene: Parvaparticeps_24 Start: 17958, Stop: 16552, Start Num: 295

Candidate Starts for Parvaparticeps_24:

(Start: 295 @17958 has 213 MA's), (381, 17817), (Start: 387 @17802 has 1 MA's), (437, 17718), (463, 17655), (509, 17622), (547, 17556), (573, 17535), (580, 17526), (583, 17511), (595, 17481), (608, 17451), (630, 17397), (740, 17235), (788, 17154), (807, 17109), (817, 17079), (819, 17076), (903, 17037), (953, 16938), (963, 16920), (969, 16908), (976, 16890), (1031, 16770), (1034, 16761), (1061, 16710), (1063, 16701), (1068, 16692), (1072, 16674), (1082, 16656), (1134, 16593), (1140, 16584), (1156, 16560),

Gene: ParvusTarda_59 Start: 39954, Stop: 41870, Start Num: 55

Candidate Starts for ParvusTarda_59:

(18, 39831), (21, 39840), (24, 39852), (33, 39885), (Start: 55 @39954 has 13 MA's), (Start: 58 @39957 has 23 MA's), (Start: 76 @39969 has 2 MA's), (Start: 89 @40017 has 2 MA's), (Start: 103 @40050 has 1 MA's), (125, 40119), (155, 40209), (172, 40236), (175, 40245), (219, 40317), (269, 40404), (Start: 297 @40437 has 15 MA's), (331, 40500), (Start: 387 @40590 has 1 MA's), (509, 40746), (519, 40770), (542, 40812), (577, 40860), (583, 40881), (590, 40902), (620, 40959), (652, 41013), (679, 41055), (716, 41115), (788, 41211), (790, 41214), (915, 41391), (951, 41442), (992, 41532), (1009, 41568), (1012, 41574), (1037, 41628), (1059, 41667), (1112, 41769), (1123, 41784), (1137, 41805),

Gene: Patbob_100 Start: 80820, Stop: 82658, Start Num: 71

Candidate Starts for Patbob_100:

(Start: 71 @80820 has 13 MA's), (127, 80979), (169, 81075), (222, 81135), (239, 81165), (Start: 297 @81255 has 15 MA's), (310, 81285), (337, 81336), (435, 81396), (648, 81792), (665, 81813), (693, 81858), (777, 81921), (788, 81954), (793, 81966), (797, 81978), (814, 82023), (839, 82062), (888, 82119), (903, 82125), (920, 82158), (956, 82227), (993, 82311), (1054, 82428), (1152, 82602), (1169, 82644),

Gene: Patience_76 Start: 49716, Stop: 51749, Start Num: 54

Candidate Starts for Patience_76:

(Start: 54 @49716 has 3 MA's), (78, 49740), (Start: 94 @49803 has 4 MA's), (122, 49869), (138, 49920), (139, 49923), (182, 50031), (199, 50064), (225, 50103), (241, 50127), (283, 50190), (Start: 297 @50208 has 15 MA's), (299, 50211), (Start: 306 @50229 has 28 MA's), (310, 50235), (351, 50304), (371, 50331), (380, 50343), (399, 50376), (453, 50478), (548, 50601), (573, 50631), (620, 50736), (627, 50754), (687, 50844), (688, 50847), (738, 50949), (761, 50988), (773, 51015), (775, 51021), (777, 51027), (794, 51075), (802, 51093), (810, 51120), (814, 51132), (819, 51141), (1008, 51429), (1068, 51558), (1087, 51591), (1097, 51609), (1135, 51663), (1160, 51702),

Gene: Patio_74 Start: 56655, Stop: 54598, Start Num: 35

Candidate Starts for Patio_74:

(6, 56943), (10, 56835), (Start: 35 @56655 has 35 MA's), (182, 56280), (251, 56172), (Start: 275 @56139 has 1 MA's), (Start: 306 @56088 has 28 MA's), (339, 56028), (341, 56025), (Start: 387 @55953 has 1 MA's), (394, 55935), (441, 55872), (443, 55866), (454, 55839), (520, 55773), (542, 55734), (553, 55716), (573, 55692), (596, 55632), (627, 55569), (645, 55536), (688, 55473), (777, 55350), (805, 55281), (810, 55263), (876, 55158), (879, 55149), (921, 55089), (939, 55056), (942, 55050), (956, 55020), (981, 54963), (1009, 54903), (1023, 54873), (1040, 54840), (1133, 54675),

Gene: Patos_63 Start: 40959, Stop: 42872, Start Num: 58

Candidate Starts for Patos_63:

(18, 40833), (21, 40842), (24, 40854), (33, 40887), (Start: 55 @40956 has 13 MA's), (Start: 58 @40959 has 23 MA's), (Start: 76 @40971 has 2 MA's), (Start: 89 @41019 has 2 MA's), (125, 41121), (155, 41211), (172, 41238), (175, 41247), (219, 41319), (Start: 297 @41439 has 15 MA's), (331, 41502), (Start: 387 @41592 has 1 MA's), (401, 41619), (509, 41748), (519, 41772), (542, 41814), (577, 41862), (583, 41883), (590, 41904), (620, 41961), (627, 41979), (652, 42015), (679, 42057), (716, 42117),

(788, 42213), (790, 42216), (915, 42393), (951, 42444), (992, 42534), (1009, 42570), (1012, 42576), (1037, 42630), (1059, 42669), (1112, 42771), (1123, 42786), (1137, 42807), (1168, 42864),

Gene: PatrickStar_58 Start: 50421, Stop: 48931, Start Num: 313

Candidate Starts for PatrickStar_58:

(Start: 313 @50421 has 5 MA's), (381, 50328), (385, 50319), (389, 50307), (Start: 395 @50292 has 1 MA's), (Start: 408 @50274 has 1 MA's), (444, 50217), (476, 50145), (477, 50142), (494, 50049), (507, 50016), (521, 49983), (523, 49980), (536, 49959), (580, 49890), (590, 49854), (628, 49767), (665, 49704), (666, 49701), (685, 49671), (723, 49599), (731, 49590), (805, 49467), (807, 49461), (933, 49329), (953, 49287), (978, 49242), (990, 49212), (1116, 48960),

Gene: PauloDiaboli_114 Start: 78533, Stop: 76683, Start Num: 75

Candidate Starts for PauloDiaboli_114:

(42, 78602), (43, 78596), (Start: 75 @78533 has 19 MA's), (88, 78488), (90, 78476), (139, 78350), (165, 78287), (222, 78212), (Start: 292 @78104 has 28 MA's), (301, 78086), (335, 78017), (350, 77990), (430, 77930), (519, 77765), (596, 77621), (643, 77534), (665, 77507), (688, 77471), (693, 77462), (730, 77405), (777, 77399), (793, 77354), (797, 77342), (808, 77321), (815, 77297), (839, 77261), (884, 77216), (942, 77132), (944, 77129), (947, 77123), (976, 77060), (1023, 76958), (1063, 76871), (1084, 76829), (1116, 76778),

Gene: Pavlo_78 Start: 49360, Stop: 47837, Start Num: 292

Candidate Starts for Pavlo_78:

(159, 49621), (Start: 292 @49360 has 28 MA's), (347, 49249), (374, 49210), (383, 49201), (429, 49105), (451, 49063), (457, 49045), (511, 48991), (535, 48946), (537, 48943), (592, 48841), (661, 48718), (683, 48682), (707, 48643), (767, 48577), (781, 48550), (787, 48532), (798, 48502), (819, 48442), (840, 48412), (848, 48400), (850, 48394), (1010, 48085), (1019, 48067), (1037, 48025), (1042, 48019), (1053, 48001), (1054, 47998), (1124, 47872),

Gene: Peep_41 Start: 31106, Stop: 29718, Start Num: 319

Candidate Starts for Peep_41:

(197, 31328), (286, 31166), (Start: 319 @31106 has 153 MA's), (405, 30962), (Start: 408 @30956 has 1 MA's), (410, 30953), (471, 30839), (511, 30812), (547, 30752), (572, 30725), (577, 30722), (622, 30626), (644, 30584), (781, 30413), (790, 30392), (797, 30377), (801, 30365), (817, 30317), (874, 30257), (927, 30161), (960, 30098), (982, 30044), (1023, 29960), (1024, 29954), (1031, 29942), (1077, 29846), (1109, 29792), (1112, 29789), (1128, 29765),

Gene: Pemberton_73 Start: 52697, Stop: 50847, Start Num: 123

Candidate Starts for Pemberton_73:

(9, 53120), (11, 53102), (16, 53027), (Start: 35 @52928 has 35 MA's), (123, 52697), (269, 52409), (Start: 297 @52376 has 15 MA's), (Start: 306 @52355 has 28 MA's), (336, 52301), (339, 52295), (341, 52292), (394, 52202), (Start: 395 @52199 has 1 MA's), (441, 52139), (553, 51983), (627, 51836), (688, 51728), (700, 51704), (777, 51602), (796, 51548), (805, 51533), (847, 51452), (876, 51413), (919, 51350), (939, 51311), (942, 51305), (956, 51275), (1009, 51158), (1040, 51095), (1068, 51032), (1078, 51014), (1133, 50930),

Gene: Penelope2018_53 Start: 39774, Stop: 41717, Start Num: 65

Candidate Starts for Penelope2018_53:

(34, 39705), (Start: 65 @39774 has 24 MA's), (80, 39801), (104, 39873), (121, 39927), (140, 39987), (146, 40005), (151, 40014), (174, 40065), (193, 40107), (219, 40143), (269, 40230), (329, 40323), (335, 40338), (347, 40359), (414, 40461), (438, 40494), (450, 40518), (512, 40578), (562, 40665), (596, 40740), (652, 40830), (688, 40881), (690, 40884), (764, 40974), (777, 40992), (788, 41025), (810, 41079), (814, 41091), (824, 41109), (865, 41172), (939, 41256), (992, 41373), (1009, 41421), (1040, 41484), (1078, 41568),

Gene: Penta_37 Start: 29174, Stop: 27789, Start Num: 314

Candidate Starts for Penta_37:

(Start: 314 @29174 has 1 MA's), (443, 28961), (471, 28898), (508, 28877), (572, 28784), (577, 28781), (583, 28760), (590, 28739), (644, 28643), (727, 28529), (762, 28505), (781, 28472), (791, 28448), (797, 28436), (801, 28424), (805, 28412), (806, 28409), (811, 28391), (860, 28349), (874, 28316), (878, 28304), (883, 28292), (927, 28220), (940, 28190), (1009, 28049), (1013, 28040), (1020, 28025), (1023, 28019), (1024, 28013), (1077, 27905), (1082, 27896), (1099, 27866), (1128, 27824),

Gene: Peppino_40 Start: 31250, Stop: 29859, Start Num: 319

Candidate Starts for Peppino_40:

(Start: 243 @31364 has 1 MA's), (Start: 302 @31280 has 13 MA's), (Start: 319 @31250 has 153 MA's), (405, 31103), (Start: 408 @31097 has 1 MA's), (410, 31094), (471, 30980), (511, 30953), (547, 30893), (572, 30866), (577, 30863), (622, 30767), (644, 30725), (781, 30554), (790, 30533), (801, 30506), (874, 30398), (927, 30302), (982, 30185), (991, 30167), (1023, 30101), (1024, 30095), (1077, 29987), (1109, 29933), (1112, 29930), (1128, 29906), (1151, 29876),

Gene: Pepy6_052 Start: 70167, Stop: 71795, Start Num: 116

Candidate Starts for Pepy6_052:

(116, 70167), (135, 70239), (142, 70263), (184, 70368), (235, 70479), (Start: 294 @70575 has 45 MA's), (299, 70584), (359, 70704), (370, 70716), (518, 70938), (519, 70941), (547, 70977), (578, 71001), (604, 71067), (639, 71133), (645, 71145), (677, 71193), (698, 71232), (717, 71259), (776, 71325), (781, 71337), (784, 71346), (795, 71379), (807, 71418), (814, 71442), (865, 71472), (868, 71481), (1013, 71550), (1018, 71559), (1087, 71703), (1138, 71778),

Gene: Perkunas_88 Start: 53425, Stop: 54645, Start Num: 295

Candidate Starts for Perkunas_88:

(Start: 295 @53425 has 213 MA's), (Start: 327 @53485 has 23 MA's), (328, 53488), (347, 53527), (359, 53551), (392, 53593), (413, 53635), (433, 53668), (452, 53707), (455, 53713), (509, 53764), (518, 53785), (519, 53788), (578, 53848), (604, 53914), (623, 53950), (639, 53980), (650, 53998), (671, 54031), (673, 54034), (677, 54040), (717, 54106), (722, 54115), (725, 54118), (765, 54154), (773, 54163), (776, 54172), (781, 54184), (819, 54298), (992, 54367), (1018, 54406), (1029, 54433), (1086, 54547), (1096, 54565),

Gene: PermaG_34 Start: 23404, Stop: 24831, Start Num: 298

Candidate Starts for PermaG_34:

(268, 23362), (Start: 298 @23404 has 19 MA's), (Start: 387 @23560 has 1 MA's), (509, 23758), (511, 23761), (512, 23764), (519, 23782), (583, 23869), (590, 23890), (630, 23989), (674, 24055), (740, 24157), (741, 24160), (777, 24205), (785, 24226), (794, 24253), (807, 24280), (808, 24283), (811, 24295), (817, 24310), (821, 24316), (903, 24352), (924, 24388), (932, 24400), (944, 24430), (981, 24514), (991, 24532), (992, 24535), (1034, 24622), (1043, 24634), (1061, 24673), (1072, 24709), (1075, 24715), (1134, 24790),

Gene: PerroGrande22_112 Start: 72823, Stop: 74448, Start Num: 116

Candidate Starts for PerroGrande22_112:

(116, 72823), (135, 72895), (142, 72919), (147, 72931), (184, 73024), (Start: 294 @73228 has 45 MA's), (Start: 318 @73276 has 13 MA's), (359, 73357), (413, 73441), (430, 73471), (518, 73591), (547, 73630), (578, 73654), (604, 73720), (639, 73786), (645, 73798), (673, 73840), (677, 73846), (698, 73885), (717, 73912), (725, 73924), (776, 73978), (781, 73990), (784, 73999), (795, 74032), (807, 74071), (814, 74095), (865, 74125), (868, 74134), (992, 74173), (1013, 74203), (1018, 74212), (1138, 74431),

Gene: PestoPenguin_90 Start: 54312, Stop: 55526, Start Num: 295

Candidate Starts for PestoPenguin_90:

(Start: 295 @54312 has 213 MA's), (299, 54318), (Start: 327 @54372 has 23 MA's), (328, 54375), (333, 54387), (358, 54435), (359, 54438), (392, 54480), (413, 54522), (433, 54555), (452, 54594), (518, 54672), (519, 54675), (578, 54735), (669, 54915), (671, 54918), (673, 54921), (677, 54927), (698, 54966), (717, 54993), (725, 55005), (760, 55032), (765, 55041), (776, 55059), (779, 55068), (781, 55071), (784, 55080), (799, 55125), (807, 55149), (814, 55173), (1009, 55272), (1012, 55278), (1018, 55290), (1036, 55332), (1068, 55398), (1079, 55419), (1096, 55449), (1138, 55509),

Gene: PeteyPab_71 Start: 52509, Stop: 50584, Start Num: 74

Candidate Starts for PeteyPab_71:

(32, 52602), (34, 52596), (Start: 74 @52509 has 16 MA's), (134, 52338), (153, 52284), (269, 52080), (365, 51924), (394, 51873), (Start: 395 @51870 has 1 MA's), (427, 51828), (511, 51741), (512, 51738), (548, 51666), (555, 51657), (775, 51306), (777, 51300), (788, 51267), (981, 50928), (1012, 50862), (1018, 50850), (1024, 50832), (1040, 50805), (1068, 50742), (1087, 50709), (1135, 50637),

Gene: Petito_87 Start: 54333, Stop: 55553, Start Num: 295

Candidate Starts for Petito_87:

(Start: 295 @54333 has 213 MA's), (Start: 327 @54393 has 23 MA's), (328, 54396), (347, 54435), (359, 54459), (392, 54501), (413, 54543), (433, 54576), (452, 54615), (455, 54621), (518, 54693), (578, 54756), (604, 54822), (623, 54858), (639, 54888), (650, 54906), (677, 54948), (698, 54987), (717, 55014), (722, 55023), (725, 55026), (773, 55071), (776, 55080), (781, 55092), (796, 55137), (798, 55143), (799, 55146), (814, 55197), (819, 55206), (824, 55215), (992, 55275), (1018, 55314), (1068, 55422), (1086, 55455), (1096, 55473),

Gene: Phaby_79 Start: 48692, Stop: 49924, Start Num: 294

Candidate Starts for Phaby_79:

(Start: 294 @48692 has 45 MA's), (Start: 297 @48698 has 15 MA's), (Start: 302 @48704 has 13 MA's), (Start: 318 @48737 has 13 MA's), (388, 48863), (455, 48995), (518, 49067), (578, 49130), (587, 49160), (677, 49322), (680, 49328), (700, 49364), (781, 49466), (1036, 49727), (1057, 49760), (1060, 49772), (1061, 49775), (1096, 49844),

Gene: Phaila_76 Start: 45867, Stop: 47114, Start Num: 294

Candidate Starts for Phaila_76:

(Start: 294 @45867 has 45 MA's), (Start: 384 @46029 has 1 MA's), (388, 46041), (413, 46095), (455, 46173), (519, 46248), (587, 46338), (590, 46347), (639, 46440), (677, 46500), (722, 46575), (781, 46644), (1096, 47019), (1107, 47037),

Gene: Phalaborwa_53 Start: 39879, Stop: 41825, Start Num: 57

Candidate Starts for Phalaborwa_53:

(57, 39879), (99, 39975), (104, 39981), (121, 40035), (140, 40095), (151, 40122), (174, 40173), (175, 40176), (193, 40215), (219, 40251), (269, 40338), (329, 40431), (335, 40446), (347, 40467), (414, 40569), (438, 40602), (450, 40626), (512, 40686), (562, 40773), (601, 40857), (688, 40989), (690, 40992), (701, 41016), (764, 41082), (777, 41100), (788, 41133), (810, 41187), (814, 41199), (824, 41217), (865, 41280), (939, 41364), (992, 41481), (1009, 41529), (1040, 41592), (1078, 41676),

Gene: Phanita_41 Start: 30883, Stop: 29468, Start Num: 323

Candidate Starts for Phanita_41:

(Start: 323 @30883 has 8 MA's), (Start: 327 @30880 has 23 MA's), (339, 30850), (Start: 343 @30844 has 1 MA's), (364, 30811), (471, 30619), (511, 30592), (547, 30532), (572, 30505), (577, 30502), (590, 30460), (622, 30406), (644, 30364), (727, 30250), (781, 30193), (790, 30172), (801, 30145), (805, 30133), (806, 30130), (811, 30112), (857, 30031), (874, 29995), (903, 29941), (925, 29899), (940, 29869), (953, 29845), (957, 29839), (977, 29797), (1009, 29728), (1020, 29704), (1023, 29698), (1024, 29692), (1031, 29680), (1093, 29557), (1099, 29545), (1131, 29500),

Gene: Pharpay_40 Start: 25956, Stop: 27863, Start Num: 68

Candidate Starts for Pharpay_40:

(Start: 68 @25956 has 36 MA's), (93, 26019), (106, 26040), (122, 26094), (199, 26271), (229, 26316), (335, 26490), (339, 26499), (394, 26589), (422, 26646), (543, 26832), (620, 26967), (624, 26979), (650, 27012), (777, 27141), (824, 27258), (888, 27333), (1009, 27567), (1010, 27570), (1037, 27630), (1080, 27720), (1097, 27750), (1126, 27792), (1163, 27843),

Gene: Phendrix_173 Start: 92821, Stop: 90896, Start Num: 75

Candidate Starts for Phendrix_173:

(Start: 75 @92821 has 19 MA's), (87, 92779), (127, 92665), (155, 92590), (195, 92521), (225, 92452), (444, 92179), (452, 92161), (461, 92137), (497, 92098), (587, 91918), (627, 91834), (643, 91810), (687, 91750), (693, 91738), (709, 91711), (788, 91642), (790, 91639), (873, 91474), (896, 91423), (905, 91399), (939, 91333), (958, 91294), (965, 91282), (1013, 91174), (1027, 91141), (1040, 91120), (1058, 91087), (1078, 91036), (1089, 91018),

Gene: Phepper_87 Start: 54475, Stop: 55689, Start Num: 295

Candidate Starts for Phepper_87:

(Start: 295 @54475 has 213 MA's), (299, 54481), (Start: 327 @54535 has 23 MA's), (328, 54538), (333, 54550), (358, 54598), (359, 54601), (392, 54643), (413, 54685), (429, 54712), (433, 54718), (452, 54757), (518, 54835), (519, 54838), (578, 54898), (623, 55000), (639, 55030), (671, 55081), (673, 55084), (677, 55090), (695, 55120), (698, 55129), (700, 55132), (715, 55153), (717, 55156), (720, 55162), (725, 55168), (760, 55195), (765, 55204), (776, 55222), (779, 55231), (781, 55234), (784, 55243), (799, 55288), (807, 55312), (814, 55336), (865, 55366), (910, 55381), (1009, 55435), (1018, 55453), (1036, 55495), (1096, 55612), (1115, 55639), (1138, 55672),

Gene: Pherbot_39 Start: 30554, Stop: 29172, Start Num: 323

Candidate Starts for Pherbot_39:

(Start: 305 @30581 has 1 MA's), (Start: 323 @30554 has 8 MA's), (Start: 327 @30551 has 23 MA's), (339, 30521), (405, 30413), (Start: 408 @30407 has 1 MA's), (410, 30404), (416, 30389), (547, 30203), (554, 30194), (577, 30173), (590, 30131), (622, 30077), (781, 29864), (790, 29843), (797, 29828), (801, 29816), (806, 29801), (820, 29765), (826, 29756), (857, 29741), (874, 29705), (927, 29606), (960, 29543), (972, 29516), (1005, 29441), (1009, 29435), (1013, 29426), (1020, 29411), (1023, 29405), (1024, 29399), (1031, 29387), (1093, 29264), (1099, 29252),

Gene: Pherferi_41 Start: 31114, Stop: 29726, Start Num: 319

Candidate Starts for Pherferi_41:

(39, 31765), (163, 31411), (197, 31336), (Start: 319 @31114 has 153 MA's), (405, 30970), (Start: 408 @30964 has 1 MA's), (410, 30961), (471, 30847), (511, 30820), (547, 30760), (572, 30733), (577, 30730), (622, 30634), (644, 30592), (777, 30430), (781, 30421), (790, 30400), (797, 30385), (801, 30373), (817, 30325), (874, 30265), (927, 30169), (960, 30106), (982, 30052), (1023, 29968), (1024, 29962), (1031, 29950), (1077, 29854), (1109, 29800), (1112, 29797), (1128, 29773),

Gene: Pherobrine_84 Start: 54211, Stop: 55428, Start Num: 295

Candidate Starts for Pherobrine_84:

(Start: 295 @54211 has 213 MA's), (Start: 327 @54271 has 23 MA's), (333, 54286), (359, 54337), (392, 54379), (429, 54448), (455, 54499), (509, 54550), (518, 54571), (578, 54634), (645, 54778), (671, 54817), (677, 54826), (700, 54868), (715, 54889), (717, 54892), (725, 54904), (755, 54925), (773, 54949), (776, 54958), (781, 54970), (784, 54979), (798, 55021), (799, 55024), (805, 55042), (807, 55048), (819, 55081), (1012, 55177), (1018, 55189), (1029, 55216), (1079, 55318), (1086, 55330), (1115, 55375),

Gene: PherryCruz_53 Start: 37551, Stop: 38729, Start Num: 297

Candidate Starts for PherryCruz_53:

(Start: 297 @37551 has 15 MA's), (312, 37584), (Start: 318 @37593 has 13 MA's), (347, 37650), (426, 37743), (519, 37872), (587, 37962), (622, 38031), (673, 38118), (677, 38124), (690, 38145), (701, 38169), (713, 38184), (765, 38238), (773, 38247), (781, 38268), (782, 38271), (784, 38277), (795, 38310), (798, 38319), (1013, 38475), (1047, 38541), (1057, 38559), (1086, 38625), (1089, 38631), (1098, 38646), (1141, 38706),

Gene: Phiderman_41 Start: 31111, Stop: 29723, Start Num: 319

Candidate Starts for Phiderman_41:

(39, 31762), (163, 31408), (197, 31333), (Start: 319 @31111 has 153 MA's), (405, 30967), (Start: 408 @30961 has 1 MA's), (410, 30958), (471, 30844), (511, 30817), (547, 30757), (572, 30730), (577, 30727), (622, 30631), (644, 30589), (777, 30427), (781, 30418), (790, 30397), (797, 30382), (801, 30370), (817, 30322), (874, 30262), (927, 30166), (960, 30103), (982, 30049), (1023, 29965), (1024, 29959), (1031, 29947), (1077, 29851), (1109, 29797), (1112, 29794), (1128, 29770),

Gene: PhillyPhantom_40 Start: 31093, Stop: 29849, Start Num: 405

Candidate Starts for PhillyPhantom_40:

(Start: 243 @31354 has 1 MA's), (Start: 302 @31270 has 13 MA's), (Start: 319 @31240 has 153 MA's), (405, 31093), (Start: 408 @31087 has 1 MA's), (410, 31084), (471, 30970), (511, 30943), (547, 30883), (572, 30856), (577, 30853), (622, 30757), (644, 30715), (781, 30544), (790, 30523), (801, 30496), (874, 30388), (927, 30292), (982, 30175), (991, 30157), (1023, 30091), (1024, 30085), (1031, 30073), (1077, 29977), (1109, 29923), (1112, 29920), (1128, 29896), (1151, 29866),

Gene: PhillyPhilly_77 Start: 48897, Stop: 47374, Start Num: 292

Candidate Starts for PhillyPhilly_77:

(Start: 292 @48897 has 28 MA's), (347, 48786), (374, 48747), (383, 48738), (399, 48699), (429, 48642), (451, 48600), (511, 48528), (535, 48483), (537, 48480), (592, 48378), (661, 48255), (683, 48219), (707, 48180), (767, 48114), (781, 48087), (787, 48069), (798, 48039), (819, 47979), (840, 47949), (848, 47937), (850, 47931), (1010, 47622), (1019, 47604), (1037, 47562), (1042, 47556), (1053, 47538), (1054, 47535),

Gene: Philon9_57 Start: 53944, Stop: 52235, Start Num: 206

Candidate Starts for Philon9_57:

(Start: 206 @53944 has 9 MA's), (Start: 209 @53932 has 2 MA's), (Start: 273 @53812 has 1 MA's), (300, 53779), (Start: 316 @53749 has 5 MA's), (320, 53743), (381, 53635), (Start: 395 @53599 has 1 MA's), (Start: 408 @53575 has 1 MA's), (412, 53566), (416, 53557), (443, 53509), (444, 53506), (448, 53500), (449, 53497), (491, 53374), (498, 53353), (521, 53293), (568, 53221), (580, 53200), (583, 53185), (584, 53182), (587, 53173), (665, 53014), (695, 52963), (700, 52951), (703, 52945), (714, 52924), (753, 52879), (776, 52834), (791, 52792), (811, 52735), (827, 52705), (856, 52702), (857, 52699), (907, 52645), (982, 52522), (990, 52504), (1048, 52387), (1050, 52384), (1057, 52372), (1125, 52252),

Gene: Phireproof_41 Start: 31120, Stop: 29732, Start Num: 319

Candidate Starts for Phireproof_41:

(197, 31342), (Start: 319 @31120 has 153 MA's), (405, 30976), (Start: 408 @30970 has 1 MA's), (410, 30967), (471, 30853), (511, 30826), (547, 30766), (572, 30739), (577, 30736), (622, 30640), (644, 30598), (777, 30436), (781, 30427), (790, 30406), (797, 30391), (801, 30379), (817, 30331), (874, 30271), (927, 30175), (960, 30112), (982, 30058), (1023, 29974), (1024, 29968), (1031, 29956), (1077, 29860), (1109, 29806), (1112, 29803), (1128, 29779),

Gene: Phomeo_71 Start: 56408, Stop: 54342, Start Num: 35

Candidate Starts for Phomeo_71:

(2, 56906), (5, 56705), (8, 56612), (9, 56600), (11, 56582), (Start: 35 @56408 has 35 MA's), (Start: 89 @56270 has 2 MA's), (96, 56246), (175, 56042), (198, 55997), (269, 55889), (339, 55775), (341, 55772), (394, 55682), (Start: 395 @55679 has 1 MA's), (441, 55619), (542, 55481), (553, 55463), (573, 55439), (627, 55316), (688, 55211), (777, 55085), (796, 55031), (865, 54905), (876, 54896), (885, 54872), (939, 54800), (942, 54794), (956, 54764), (981, 54707), (1009, 54647), (1040, 54584), (1078, 54503),

Gene: Phrampa_94 Start: 82318, Stop: 84156, Start Num: 71

Candidate Starts for Phrampa_94:

(Start: 71 @82318 has 13 MA's), (127, 82477), (169, 82573), (222, 82633), (239, 82663), (Start: 297 @82753 has 15 MA's), (310, 82783), (435, 82894), (613, 83233), (665, 83311), (693, 83356), (777, 83419), (788, 83452), (793, 83464), (797, 83476), (805, 83491), (806, 83494), (814, 83521), (839, 83560), (888, 83617), (903, 83623), (920, 83656), (956, 83725), (993, 83809), (1054, 83926), (1152, 84100), (1169, 84142),

Gene: PhredFlintston_41 Start: 31114, Stop: 29726, Start Num: 319

Candidate Starts for PhredFlintston_41:

(39, 31765), (163, 31411), (197, 31336), (Start: 319 @31114 has 153 MA's), (405, 30970), (Start: 408 @30964 has 1 MA's), (410, 30961), (471, 30847), (511, 30820), (547, 30760), (572, 30733), (577, 30730), (622, 30634), (644, 30592), (777, 30430), (781, 30421), (790, 30400), (797, 30385), (801, 30373), (817, 30325), (874, 30265), (927, 30169), (960, 30106), (982, 30052), (1023, 29968), (1024, 29962), (1031, 29950), (1077, 29854), (1109, 29800), (1112, 29797), (1128, 29773),

Gene: Phreeze_60 Start: 45650, Stop: 47707, Start Num: 51

Candidate Starts for Phreeze_60:

(Start: 51 @45650 has 11 MA's), (85, 45710), (86, 45713), (119, 45806), (124, 45818), (129, 45839), (177, 45962), (179, 45965), (182, 45974), (199, 46007), (208, 46028), (225, 46076), (Start: 297 @46181 has 15 MA's), (Start: 306 @46202 has 28 MA's), (310, 46208), (Start: 342 @46262 has 7 MA's), (453, 46448), (457, 46460), (470, 46478), (509, 46493), (512, 46499), (688, 46817), (690, 46820), (716, 46865), (773, 46916), (777, 46928), (810, 47018), (814, 47030), (835, 47063), (851, 47087), (856, 47096), (942, 47186), (958, 47219), (1008, 47330), (1009, 47333), (1010, 47336), (1012, 47339), (1037, 47393), (1068, 47459), (1078, 47477), (1171, 47654),

Gene: Phriends_41 Start: 31120, Stop: 29732, Start Num: 319

Candidate Starts for Phriends_41:

(197, 31342), (Start: 319 @31120 has 153 MA's), (405, 30976), (Start: 408 @30970 has 1 MA's), (410, 30967), (471, 30853), (511, 30826), (547, 30766), (572, 30739), (577, 30736), (580, 30730), (622, 30640), (644, 30598), (781, 30427), (797, 30391), (801, 30379), (811, 30346), (817, 30331), (874, 30271), (927, 30175), (960, 30112), (982, 30058), (1023, 29974), (1024, 29968), (1031, 29956), (1077, 29860), (1109, 29806), (1112, 29803), (1128, 29779),

Gene: Phroglets_49 Start: 42178, Stop: 40175, Start Num: 203

Candidate Starts for Phroglets_49:

(Start: 203 @42178 has 1 MA's), (424, 41776), (440, 41752), (451, 41725), (456, 41710), (471, 41680), (476, 41668), (495, 41566), (506, 41533), (515, 41515), (522, 41497), (526, 41491), (575, 41413), (591, 41368), (640, 41278), (645, 41266), (675, 41221), (741, 41083), (785, 41008), (807, 40939), (814, 40915), (887, 40819), (965, 40669), (971, 40654), (1036, 40483), (1086, 40378), (1096, 40360), (1099, 40354), (1141, 40294), (1172, 40192),

Gene: PhunaPhoke_40 Start: 25929, Stop: 27836, Start Num: 68

Candidate Starts for PhunaPhoke_40:

(Start: 68 @25929 has 36 MA's), (93, 25992), (106, 26013), (122, 26067), (199, 26244), (229, 26289), (335, 26463), (339, 26472), (394, 26562), (422, 26619), (543, 26805), (620, 26940), (624, 26952),

(650, 26985), (777, 27114), (824, 27231), (888, 27306), (1009, 27540), (1010, 27543), (1037, 27603), (1080, 27693), (1097, 27723), (1126, 27765), (1163, 27816),

Gene: PierreThree_58 Start: 52668, Stop: 51259, Start Num: 375

Candidate Starts for PierreThree_58:

(177, 53046), (201, 52995), (220, 52944), (248, 52890), (265, 52860), (Start: 290 @52827 has 3 MA's), (Start: 295 @52818 has 213 MA's), (Start: 306 @52791 has 28 MA's), (Start: 375 @52668 has 28 MA's), (Start: 395 @52623 has 1 MA's), (416, 52581), (443, 52533), (444, 52530), (448, 52524), (449, 52521), (453, 52509), (455, 52503), (479, 52455), (480, 52452), (516, 52332), (525, 52314), (564, 52251), (580, 52227), (583, 52212), (622, 52119), (665, 52041), (698, 51981), (700, 51978), (705, 51969), (714, 51951), (747, 51909), (776, 51864), (783, 51846), (857, 51729), (865, 51714), (883, 51693), (951, 51612), (953, 51609), (982, 51552), (985, 51546), (990, 51534), (1016, 51483), (1022, 51468), (1025, 51459), (1048, 51420), (1055, 51408), (1099, 51312), (1109, 51297),

Gene: PigHeaded_55 Start: 42931, Stop: 40772, Start Num: 94

Candidate Starts for PigHeaded_55:

(Start: 94 @42931 has 4 MA's), (224, 42610), (257, 42553), (263, 42544), (Start: 278 @42526 has 3 MA's), (Start: 318 @42451 has 13 MA's), (399, 42304), (400, 42301), (451, 42196), (456, 42181), (471, 42151), (476, 42139), (477, 42136), (482, 42118), (489, 42067), (506, 42001), (509, 41995), (513, 41986), (517, 41977), (546, 41920), (711, 41617), (785, 41485), (796, 41452), (814, 41410), (874, 41350), (889, 41326), (916, 41296), (920, 41287), (958, 41206), (971, 41179), (989, 41134), (1001, 41092), (1010, 41065), (1036, 41008), (1042, 41002), (1099, 40879), (1137, 40825), (1141, 40819),

Gene: Pikmin_37 Start: 29766, Stop: 28396, Start Num: 327

Candidate Starts for Pikmin_37:

(Start: 327 @29766 has 23 MA's), (400, 29637), (411, 29616), (471, 29505), (472, 29502), (542, 29418), (547, 29412), (563, 29400), (577, 29382), (583, 29361), (622, 29286), (639, 29253), (777, 29082), (778, 29079), (781, 29073), (782, 29070), (797, 29037), (817, 28977), (874, 28917), (876, 28911), (877, 28908), (878, 28905), (925, 28821), (990, 28689), (1009, 28650), (1020, 28626), (1023, 28620), (1031, 28602), (1077, 28506), (1093, 28479), (1099, 28467), (1123, 28434), (1131, 28422),

Gene: PinkFriday_25 Start: 20614, Stop: 22011, Start Num: 295

Candidate Starts for PinkFriday_25:

(Start: 295 @20614 has 213 MA's), (328, 20674), (379, 20761), (Start: 387 @20779 has 1 MA's), (429, 20866), (433, 20872), (452, 20899), (509, 20950), (512, 20956), (547, 21016), (575, 21037), (580, 21046), (590, 21082), (599, 21100), (601, 21103), (610, 21136), (620, 21157), (627, 21175), (630, 21181), (650, 21208), (667, 21235), (704, 21289), (710, 21301), (719, 21316), (742, 21340), (761, 21355), (764, 21361), (777, 21382), (788, 21415), (794, 21430), (797, 21439), (821, 21490), (924, 21562), (953, 21625), (963, 21643), (992, 21715), (1003, 21739), (1009, 21745), (1010, 21748), (1019, 21766), (1034, 21802), (1072, 21889), (1140, 21979), (1156, 22003),

Gene: Pioneer3_77 Start: 49273, Stop: 47750, Start Num: 292

Candidate Starts for Pioneer3_77:

(246, 49339), (262, 49312), (Start: 292 @49273 has 28 MA's), (374, 49123), (383, 49114), (429, 49018), (448, 48985), (457, 48958), (511, 48904), (535, 48859), (537, 48856), (590, 48751), (592, 48748), (661, 48625), (665, 48616), (674, 48604), (707, 48550), (781, 48457), (819, 48349), (840, 48319), (844, 48313), (846, 48310), (848, 48307), (865, 48274), (869, 48262), (936, 48136), (962, 48088), (1010, 47998), (1019, 47980), (1042, 47932), (1105, 47809),

Gene: Pippin15_76 Start: 46461, Stop: 47579, Start Num: 384

Candidate Starts for Pippin15_76:

(Start: 295 @46302 has 213 MA's), (333, 46377), (Start: 384 @46461 has 1 MA's), (455, 46605), (504, 46641), (519, 46680), (578, 46740), (587, 46770), (673, 46926), (677, 46932), (776, 47064), (784,

47085), (796, 47121), (799, 47130), (817, 47184), (910, 47220), (1013, 47283), (1036, 47334), (1047, 47349), (1068, 47400), (1086, 47433),

Gene: PitaDog_25 Start: 20567, Stop: 21961, Start Num: 295

Candidate Starts for PitaDog_25:

(Start: 295 @20567 has 213 MA's), (328, 20624), (Start: 387 @20729 has 1 MA's), (388, 20732), (429, 20816), (452, 20849), (509, 20900), (512, 20906), (575, 20987), (577, 20990), (580, 20996), (590, 21032), (599, 21050), (601, 21053), (610, 21086), (620, 21107), (704, 21239), (719, 21266), (761, 21305), (775, 21326), (777, 21332), (788, 21365), (794, 21380), (797, 21389), (817, 21434), (866, 21470), (924, 21512), (953, 21575), (963, 21593), (1009, 21695), (1010, 21698), (1019, 21716), (1020, 21719), (1031, 21743), (1034, 21752), (1072, 21839), (1140, 21929), (1156, 21953),

Gene: Platte_76 Start: 49041, Stop: 47518, Start Num: 292

Candidate Starts for Platte_76:

(246, 49107), (262, 49080), (Start: 292 @49041 has 28 MA's), (374, 48891), (383, 48882), (429, 48786), (448, 48753), (457, 48726), (511, 48672), (535, 48627), (537, 48624), (590, 48519), (592, 48516), (661, 48393), (665, 48384), (674, 48372), (707, 48318), (781, 48225), (819, 48117), (840, 48087), (844, 48081), (846, 48078), (848, 48075), (865, 48042), (869, 48030), (936, 47904), (962, 47856), (1010, 47766), (1019, 47748), (1042, 47700), (1105, 47577),

Gene: Pleakley_82 Start: 56142, Stop: 54094, Start Num: 35

Candidate Starts for Pleakley_82:

(Start: 35 @56142 has 35 MA's), (92, 55989), (105, 55974), (129, 55893), (182, 55770), (198, 55740), (269, 55632), (Start: 297 @55599 has 15 MA's), (325, 55548), (341, 55515), (394, 55425), (412, 55392), (441, 55362), (511, 55287), (553, 55206), (583, 55155), (627, 55059), (645, 55026), (670, 54990), (688, 54963), (775, 54846), (777, 54840), (805, 54771), (810, 54753), (814, 54741), (921, 54579), (942, 54546), (956, 54516), (965, 54501), (981, 54459), (1040, 54336), (1078, 54255), (1093, 54231), (1133, 54171),

Gene: Pocket_40 Start: 30843, Stop: 29422, Start Num: 319

Candidate Starts for Pocket_40:

(197, 31065), (Start: 319 @30843 has 153 MA's), (405, 30699), (Start: 408 @30693 has 1 MA's), (410, 30690), (471, 30576), (511, 30549), (547, 30489), (572, 30462), (577, 30459), (622, 30363), (644, 30321), (777, 30159), (781, 30150), (790, 30129), (801, 30102), (811, 30069), (817, 30054), (866, 29979), (874, 29961), (927, 29865), (960, 29802), (982, 29748), (1023, 29664), (1024, 29658), (1031, 29646), (1066, 29571), (1077, 29550), (1109, 29496), (1112, 29493), (1128, 29469),

Gene: Poco6_051 Start: 71433, Stop: 73058, Start Num: 116

Candidate Starts for Poco6_051:

(116, 71433), (142, 71529), (147, 71541), (184, 71634), (Start: 294 @71838 has 45 MA's), (Start: 318 @71886 has 13 MA's), (359, 71967), (430, 72081), (518, 72201), (547, 72240), (578, 72264), (639, 72396), (645, 72408), (673, 72450), (677, 72456), (698, 72495), (717, 72522), (725, 72534), (776, 72588), (781, 72600), (784, 72609), (795, 72642), (807, 72681), (814, 72705), (865, 72735), (868, 72744), (992, 72783), (1013, 72813), (1018, 72822), (1138, 73041),

Gene: PoeMe_77 Start: 46795, Stop: 48042, Start Num: 294

Candidate Starts for PoeMe_77:

(Start: 294 @46795 has 45 MA's), (Start: 384 @46957 has 1 MA's), (388, 46969), (413, 47023), (455, 47101), (587, 47266), (590, 47275), (639, 47368), (677, 47428), (722, 47503), (781, 47572), (1096, 47947), (1107, 47965),

Gene: PokyPuppy_58 Start: 52764, Stop: 51256, Start Num: 322

Candidate Starts for PokyPuppy_58:

(177, 53043), (201, 52992), (220, 52941), (244, 52893), (248, 52887), (265, 52857), (Start: 290 @52824 has 3 MA's), (Start: 295 @52815 has 213 MA's), (Start: 306 @52788 has 28 MA's), (Start: 322 @52764 has 4 MA's), (Start: 375 @52665 has 28 MA's), (Start: 395 @52620 has 1 MA's), (416, 52578), (443, 52530), (444, 52527), (448, 52521), (449, 52518), (455, 52500), (479, 52452), (516, 52329), (525, 52311), (580, 52224), (583, 52209), (622, 52116), (634, 52089), (665, 52038), (698, 51978), (700, 51975), (705, 51966), (714, 51948), (747, 51906), (776, 51861), (857, 51726), (865, 51711), (883, 51690), (937, 51633), (953, 51606), (982, 51549), (985, 51543), (990, 51531), (1016, 51480), (1025, 51456), (1048, 51417), (1055, 51405), (1057, 51402), (1099, 51309), (1109, 51294),

Gene: Poland_64 Start: 54025, Stop: 52493, Start Num: 306

Candidate Starts for Poland_64:

(177, 54280), (201, 54229), (248, 54124), (265, 54094), (Start: 290 @54061 has 3 MA's), (Start: 295 @54052 has 213 MA's), (Start: 306 @54025 has 28 MA's), (Start: 395 @53857 has 1 MA's), (416, 53815), (426, 53797), (443, 53767), (449, 53755), (453, 53743), (455, 53737), (464, 53716), (525, 53548), (580, 53461), (583, 53446), (587, 53434), (601, 53404), (622, 53353), (665, 53275), (679, 53251), (690, 53233), (698, 53215), (700, 53212), (705, 53203), (714, 53185), (747, 53143), (776, 53098), (783, 53080), (857, 52963), (865, 52948), (883, 52927), (951, 52846), (953, 52843), (982, 52786), (985, 52780), (990, 52768), (1025, 52693), (1048, 52654), (1055, 52642), (1057, 52639), (1099, 52546), (1109, 52531),

Gene: Polyyuki_72 Start: 53158, Stop: 51122, Start Num: 36

Candidate Starts for Polyyuki_72:

(11, 53326), (Start: 36 @53158 has 6 MA's), (62, 53092), (85, 53050), (198, 52765), (239, 52708), (269, 52657), (283, 52642), (335, 52552), (341, 52540), (394, 52447), (444, 52375), (512, 52306), (548, 52234), (583, 52177), (688, 51997), (700, 51973), (751, 51910), (777, 51874), (810, 51787), (888, 51655), (920, 51616), (921, 51613), (942, 51568), (1009, 51421), (1040, 51358), (1060, 51316), (1078, 51277), (1093, 51253),

Gene: Pons_58 Start: 40779, Stop: 39301, Start Num: 277

Candidate Starts for Pons_58:

(217, 40860), (Start: 250 @40806 has 2 MA's), (Start: 277 @40779 has 49 MA's), (312, 40716), (330, 40689), (Start: 343 @40662 has 1 MA's), (379, 40608), (388, 40587), (389, 40584), (401, 40557), (Start: 408 @40545 has 1 MA's), (456, 40452), (577, 40329), (596, 40275), (599, 40269), (602, 40263), (649, 40185), (661, 40170), (724, 40080), (740, 40071), (772, 40044), (794, 39981), (797, 39972), (801, 39960), (808, 39939), (812, 39924), (815, 39915), (830, 39894), (867, 39855), (870, 39846), (877, 39831), (940, 39711), (942, 39708), (964, 39666), (971, 39648), (1013, 39552), (1036, 39501), (1055, 39471), (1066, 39438), (1097, 39381), (1106, 39366),

Gene: Popy_79 Start: 50151, Stop: 51335, Start Num: 295

Candidate Starts for Popy_79:

(Start: 295 @50151 has 213 MA's), (Start: 318 @50196 has 13 MA's), (328, 50214), (333, 50226), (455, 50397), (587, 50571), (673, 50727), (677, 50733), (698, 50772), (701, 50778), (720, 50805), (781, 50877), (799, 50931), (807, 50955), (814, 50979), (817, 50985), (909, 51009), (978, 51015), (1036, 51129), (1086, 51228), (1089, 51234), (1107, 51264), (1115, 51273), (1147, 51318),

Gene: PorkBelly_54 Start: 43266, Stop: 41917, Start Num: 342

Candidate Starts for PorkBelly_54:

(311, 43317), (Start: 342 @43266 has 7 MA's), (366, 43227), (389, 43188), (391, 43182), (407, 43152), (425, 43134), (438, 43116), (444, 43101), (467, 43053), (500, 43041), (534, 42984), (536, 42981), (538, 42978), (650, 42774), (697, 42702), (715, 42678), (767, 42627), (780, 42603), (786, 42585), (795, 42564), (800, 42549), (828, 42480), (851, 42465), (881, 42402), (940, 42300), (944, 42294), (961, 42264), (982, 42210), (992, 42186), (1013, 42144), (1071, 42018), (1073, 42015), (1094, 41979),

Gene: PotPie_56 Start: 41318, Stop: 39840, Start Num: 277

Candidate Starts for PotPie_56:

(217, 41396), (248, 41345), (Start: 250 @41342 has 2 MA's), (Start: 277 @41318 has 49 MA's), (312, 41255), (328, 41234), (330, 41228), (Start: 343 @41201 has 1 MA's), (379, 41147), (394, 41111), (401, 41096), (453, 41000), (456, 40991), (465, 40970), (532, 40904), (577, 40868), (596, 40814), (599, 40808), (602, 40802), (649, 40724), (661, 40709), (740, 40610), (788, 40535), (797, 40511), (801, 40499), (808, 40478), (812, 40463), (815, 40454), (830, 40433), (867, 40394), (870, 40385), (877, 40370), (907, 40319), (940, 40250), (942, 40247), (964, 40205), (971, 40187), (1013, 40091), (1036, 40040), (1055, 40010), (1066, 39977), (1097, 39920), (1106, 39905),

Gene: PotatoChip_72 Start: 52511, Stop: 50586, Start Num: 74

Candidate Starts for PotatoChip_72:

(32, 52604), (34, 52598), (Start: 74 @52511 has 16 MA's), (134, 52340), (153, 52286), (269, 52082), (365, 51926), (394, 51875), (Start: 395 @51872 has 1 MA's), (427, 51830), (511, 51743), (512, 51740), (548, 51668), (555, 51659), (775, 51308), (777, 51302), (788, 51269), (981, 50930), (1012, 50864), (1018, 50852), (1024, 50834), (1040, 50807), (1068, 50744), (1087, 50711), (1135, 50639),

Gene: Potatoes_29 Start: 22153, Stop: 23553, Start Num: 295

Candidate Starts for Potatoes_29:

(Start: 295 @22153 has 213 MA's), (328, 22216), (Start: 387 @22321 has 1 MA's), (388, 22324), (429, 22408), (452, 22441), (509, 22492), (512, 22498), (575, 22579), (577, 22582), (580, 22588), (590, 22624), (599, 22642), (601, 22645), (620, 22699), (650, 22750), (704, 22831), (719, 22858), (754, 22888), (761, 22897), (777, 22924), (788, 22957), (794, 22972), (817, 23026), (860, 23047), (865, 23059), (904, 23071), (1012, 23293), (1017, 23302), (1019, 23308), (1034, 23344), (1063, 23404), (1072, 23431), (1140, 23521),

Gene: Potty_40 Start: 25934, Stop: 27841, Start Num: 68

Candidate Starts for Potty_40:

(Start: 68 @25934 has 36 MA's), (93, 25997), (106, 26018), (122, 26072), (199, 26249), (229, 26294), (335, 26468), (339, 26477), (394, 26567), (422, 26624), (543, 26810), (620, 26945), (624, 26957), (650, 26990), (777, 27119), (824, 27236), (888, 27311), (1009, 27545), (1010, 27548), (1037, 27608), (1080, 27698), (1097, 27728), (1126, 27770), (1163, 27821),

Gene: Poultress_39 Start: 26280, Stop: 28187, Start Num: 68

Candidate Starts for Poultress_39:

(Start: 68 @26280 has 36 MA's), (93, 26343), (106, 26364), (122, 26418), (199, 26595), (229, 26640), (335, 26814), (339, 26823), (394, 26913), (422, 26970), (543, 27156), (620, 27291), (624, 27303), (650, 27336), (777, 27465), (824, 27582), (1010, 27894), (1037, 27954), (1080, 28044), (1097, 28074), (1126, 28116), (1163, 28167),

Gene: Powelldog_77 Start: 46779, Stop: 48026, Start Num: 295

Candidate Starts for Powelldog_77:

(Start: 295 @46779 has 213 MA's), (388, 46950), (455, 47082), (504, 47118), (519, 47157), (578, 47217), (587, 47247), (623, 47319), (677, 47409), (698, 47448), (700, 47451), (701, 47454), (781, 47553), (1096, 47928), (1120, 47961),

Gene: Prager_53 Start: 39749, Stop: 41692, Start Num: 65

Candidate Starts for Prager_53:

(Start: 65 @39749 has 24 MA's), (80, 39776), (104, 39848), (121, 39902), (140, 39962), (146, 39980), (151, 39989), (174, 40040), (193, 40082), (219, 40118), (269, 40205), (329, 40298), (335, 40313), (347, 40334), (414, 40436), (438, 40469), (450, 40493), (512, 40553), (562, 40640), (596, 40715), (652, 40805), (688, 40856), (690, 40859), (764, 40949), (777, 40967), (788, 41000), (810, 41054), (814, 41066), (824, 41084), (865, 41147), (939, 41231), (992, 41348), (1009, 41396), (1040, 41459),

(1078, 41543),

Gene: Preamble_25 Start: 20577, Stop: 21971, Start Num: 295

Candidate Starts for Preamble_25:

(Start: 295 @20577 has 213 MA's), (328, 20634), (Start: 387 @20739 has 1 MA's), (388, 20742), (429, 20826), (452, 20859), (511, 20913), (512, 20916), (580, 21006), (590, 21042), (601, 21063), (610, 21096), (620, 21117), (650, 21168), (704, 21249), (719, 21276), (761, 21315), (777, 21342), (788, 21375), (794, 21390), (797, 21399), (817, 21444), (866, 21480), (942, 21561), (953, 21585), (963, 21603), (969, 21615), (992, 21675), (1003, 21699), (1009, 21705), (1010, 21708), (1019, 21726), (1020, 21729), (1031, 21753), (1034, 21762), (1072, 21849), (1113, 21900), (1140, 21939),

Gene: Predator_60 Start: 44295, Stop: 46307, Start Num: 51

Candidate Starts for Predator_60:

(Start: 51 @44295 has 11 MA's), (Start: 58 @44310 has 23 MA's), (83, 44349), (91, 44379), (93, 44388), (105, 44403), (122, 44457), (124, 44463), (161, 44568), (182, 44619), (193, 44640), (199, 44652), (225, 44721), (239, 44742), (Start: 280 @44802 has 11 MA's), (Start: 297 @44826 has 15 MA's), (Start: 306 @44847 has 28 MA's), (310, 44853), (453, 45093), (457, 45105), (509, 45138), (512, 45144), (573, 45246), (687, 45459), (688, 45462), (716, 45510), (773, 45561), (775, 45567), (777, 45573), (810, 45663), (814, 45675), (905, 45798), (942, 45831), (1008, 45975), (1013, 45987), (1027, 46020), (1068, 46104), (1078, 46122), (1081, 46125), (1109, 46173), (1149, 46230),

Gene: PrincePhergus_39 Start: 30573, Stop: 29191, Start Num: 323

Candidate Starts for PrincePhergus_39:

(Start: 305 @30600 has 1 MA's), (Start: 323 @30573 has 8 MA's), (Start: 327 @30570 has 23 MA's), (339, 30540), (405, 30432), (Start: 408 @30426 has 1 MA's), (410, 30423), (416, 30408), (540, 30231), (547, 30222), (554, 30213), (577, 30192), (590, 30150), (622, 30096), (781, 29883), (790, 29862), (797, 29847), (801, 29835), (806, 29820), (820, 29784), (826, 29775), (857, 29760), (874, 29724), (927, 29625), (960, 29562), (972, 29535), (1005, 29460), (1009, 29454), (1013, 29445), (1020, 29430), (1023, 29424), (1024, 29418), (1031, 29406), (1093, 29283), (1099, 29271),

Gene: PrincessTrina_91 Start: 59008, Stop: 60753, Start Num: 158

Candidate Starts for PrincessTrina_91:

(Start: 158 @59008 has 18 MA's), (168, 59029), (205, 59107), (214, 59131), (236, 59176), (251, 59200), (Start: 278 @59239 has 3 MA's), (366, 59398), (Start: 375 @59407 has 28 MA's), (394, 59449), (405, 59470), (430, 59503), (435, 59509), (438, 59512), (444, 59527), (452, 59542), (527, 59629), (534, 59641), (538, 59647), (563, 59683), (578, 59707), (582, 59719), (652, 59851), (710, 59935), (741, 59968), (759, 59983), (761, 59986), (777, 60010), (787, 60034), (790, 60040), (793, 60046), (812, 60103), (856, 60148), (885, 60214), (893, 60226), (898, 60235), (907, 60259), (909, 60262), (928, 60298), (932, 60304), (940, 60328), (980, 60409), (981, 60415), (989, 60433), (998, 60460), (1002, 60466), (1019, 60496), (1021, 60502), (1053, 60562), (1073, 60613), (1076, 60619), (1099, 60658),

Gene: ProfFrink_74 Start: 46122, Stop: 47351, Start Num: 295

Candidate Starts for ProfFrink_74:

(Start: 295 @46122 has 213 MA's), (388, 46293), (455, 46425), (578, 46560), (587, 46590), (614, 46647), (677, 46752), (680, 46758), (698, 46791), (781, 46896), (993, 47076), (1107, 47289), (1140, 47334),

Gene: PsychoKiller_52 Start: 38727, Stop: 37249, Start Num: 277

Candidate Starts for PsychoKiller_52:

(Start: 277 @38727 has 49 MA's), (328, 38640), (330, 38634), (379, 38553), (388, 38532), (453, 38409), (454, 38406), (596, 38223), (599, 38217), (602, 38211), (649, 38133), (740, 38019), (772, 37992), (781, 37968), (801, 37908), (815, 37863), (830, 37842), (867, 37803), (875, 37785), (939,

37668), (964, 37620), (966, 37617), (971, 37602), (1013, 37506), (1023, 37485), (1036, 37455),

Gene: Puissant_59 Start: 45753, Stop: 47810, Start Num: 51

Candidate Starts for Puissant_59:

(Start: 51 @45753 has 11 MA's), (83, 45807), (86, 45816), (119, 45909), (122, 45915), (129, 45942), (179, 46068), (182, 46077), (199, 46110), (208, 46131), (225, 46179), (239, 46200), (Start: 297 @46284 has 15 MA's), (299, 46287), (Start: 306 @46305 has 28 MA's), (310, 46311), (Start: 342 @46365 has 7 MA's), (453, 46551), (457, 46563), (470, 46581), (509, 46596), (512, 46602), (688, 46920), (690, 46923), (716, 46968), (773, 47019), (777, 47031), (810, 47121), (814, 47133), (835, 47166), (851, 47190), (856, 47199), (942, 47289), (958, 47322), (1008, 47433), (1009, 47436), (1010, 47439), (1012, 47442), (1037, 47496), (1044, 47505), (1078, 47580), (1093, 47604), (1109, 47631), (1171, 47757),

Gene: Pumancara_25 Start: 20596, Stop: 21993, Start Num: 295

Candidate Starts for Pumancara_25:

(Start: 295 @20596 has 213 MA's), (328, 20656), (379, 20743), (Start: 387 @20761 has 1 MA's), (429, 20848), (433, 20854), (452, 20881), (509, 20932), (512, 20938), (547, 20998), (575, 21019), (580, 21028), (590, 21064), (599, 21082), (601, 21085), (610, 21118), (620, 21139), (630, 21163), (650, 21190), (667, 21217), (704, 21271), (710, 21283), (719, 21298), (742, 21322), (761, 21337), (777, 21364), (788, 21397), (794, 21412), (797, 21421), (821, 21472), (924, 21544), (942, 21583), (953, 21607), (963, 21625), (992, 21697), (1003, 21721), (1009, 21727), (1010, 21730), (1019, 21748), (1034, 21784), (1072, 21871), (1103, 21910), (1140, 21961), (1156, 21985), (1158, 21988),

Gene: Pumpernickel_111 Start: 80095, Stop: 78248, Start Num: 75

Candidate Starts for Pumpernickel_111:

(Start: 75 @80095 has 19 MA's), (165, 79855), (166, 79852), (176, 79831), (222, 79780), (Start: 292 @79672 has 28 MA's), (Start: 302 @79651 has 13 MA's), (438, 79489), (549, 79276), (587, 79210), (596, 79189), (601, 79180), (628, 79123), (643, 79102), (665, 79075), (688, 79039), (693, 79030), (698, 79018), (730, 78973), (777, 78967), (788, 78934), (842, 78823), (843, 78820), (881, 78778), (919, 78727), (976, 78607), (987, 78580), (1017, 78520), (1081, 78382), (1084, 78376), (1114, 78328), (1155, 78268),

Gene: PuppyEggo_41 Start: 31121, Stop: 29733, Start Num: 319

Candidate Starts for PuppyEggo_41:

(39, 31772), (163, 31418), (197, 31343), (Start: 319 @31121 has 153 MA's), (405, 30977), (Start: 408 @30971 has 1 MA's), (410, 30968), (471, 30854), (511, 30827), (547, 30767), (572, 30740), (577, 30737), (622, 30641), (644, 30599), (781, 30428), (790, 30407), (801, 30380), (817, 30332), (874, 30272), (960, 30113), (982, 30059), (1023, 29975), (1024, 29969), (1031, 29957), (1077, 29861), (1109, 29807), (1112, 29804), (1128, 29780),

Gene: Pywacket_58 Start: 41409, Stop: 43325, Start Num: 55

Candidate Starts for Pywacket_58:

(Start: 55 @41409 has 13 MA's), (Start: 58 @41412 has 23 MA's), (Start: 76 @41424 has 2 MA's), (Start: 89 @41472 has 2 MA's), (Start: 103 @41505 has 1 MA's), (125, 41574), (155, 41664), (172, 41691), (175, 41700), (219, 41772), (269, 41859), (Start: 297 @41892 has 15 MA's), (331, 41955), (Start: 387 @42045 has 1 MA's), (509, 42201), (519, 42225), (542, 42267), (577, 42315), (583, 42336), (590, 42357), (620, 42414), (652, 42468), (679, 42510), (716, 42570), (788, 42666), (790, 42669), (915, 42846), (951, 42897), (992, 42987), (1009, 43023), (1012, 43029), (1037, 43083), (1059, 43122), (1112, 43224), (1123, 43239), (1137, 43260),

Gene: QuadZero_39 Start: 29101, Stop: 27674, Start Num: 319

Candidate Starts for QuadZero_39:

(289, 29158), (Start: 319 @29101 has 153 MA's), (336, 29071), (339, 29065), (Start: 408 @28951 has 1 MA's), (410, 28948), (411, 28945), (572, 28711), (577, 28708), (727, 28453), (778, 28402), (781, 28396), (801, 28348), (811, 28315), (817, 28300), (874, 28201), (903, 28147), (905, 28141), (920, 28114), (960, 28042), (991, 27970), (1009, 27934), (1013, 27925), (1020, 27910), (1023, 27904), (1031, 27886), (1055, 27844), (1082, 27781), (1128, 27709),

Gene: Quantum_123 Start: 82180, Stop: 80537, Start Num: 255

Candidate Starts for Quantum_123:

(Start: 255 @82180 has 9 MA's), (271, 82156), (332, 82048), (393, 81943), (413, 81904), (443, 81853), (510, 81760), (540, 81700), (558, 81676), (561, 81673), (578, 81646), (618, 81553), (712, 81400), (729, 81376), (731, 81373), (763, 81340), (773, 81328), (798, 81256), (830, 81178), (856, 81133), (925, 80986), (946, 80941), (962, 80911), (974, 80881), (979, 80869), (1009, 80803), (1056, 80713), (1057, 80710), (1105, 80614), (1110, 80608), (1129, 80581),

Gene: Quartz_40 Start: 30748, Stop: 29336, Start Num: 327

Candidate Starts for Quartz_40:

(Start: 323 @30751 has 8 MA's), (Start: 327 @30748 has 23 MA's), (339, 30718), (Start: 343 @30712 has 1 MA's), (364, 30679), (Start: 408 @30604 has 1 MA's), (411, 30598), (471, 30487), (511, 30460), (540, 30409), (547, 30400), (572, 30373), (577, 30370), (590, 30328), (622, 30274), (727, 30118), (778, 30067), (781, 30061), (790, 30040), (794, 30034), (797, 30025), (801, 30013), (805, 30001), (846, 29923), (874, 29863), (876, 29857), (903, 29809), (925, 29767), (960, 29704), (967, 29692), (976, 29668), (977, 29665), (1009, 29596), (1013, 29587), (1020, 29572), (1023, 29566), (1024, 29560), (1031, 29548), (1082, 29443), (1093, 29425), (1099, 29413), (1131, 29368),

Gene: Quasar_53 Start: 39431, Stop: 37953, Start Num: 277

Candidate Starts for Quasar_53:

(Start: 277 @39431 has 49 MA's), (328, 39344), (330, 39338), (388, 39236), (453, 39113), (454, 39110), (596, 38927), (599, 38921), (602, 38915), (649, 38837), (740, 38723), (772, 38696), (781, 38672), (801, 38612), (815, 38567), (830, 38546), (867, 38507), (875, 38489), (939, 38372), (964, 38324), (966, 38321), (971, 38306), (1013, 38210), (1023, 38189), (1036, 38159),

Gene: Qui_140 Start: 73635, Stop: 74879, Start Num: 294

Candidate Starts for Qui_140:

(Start: 294 @73635 has 45 MA's), (312, 73674), (Start: 318 @73683 has 13 MA's), (388, 73809), (413, 73863), (578, 74076), (587, 74106), (622, 74175), (677, 74268), (773, 74391), (781, 74412), (805, 74484), (824, 74532), (867, 74550), (1012, 74616), (1047, 74685), (1068, 74736), (1096, 74787), (1107, 74805),

Gene: RADical_54 Start: 38721, Stop: 37243, Start Num: 277

Candidate Starts for RADical_54:

(Start: 277 @38721 has 49 MA's), (328, 38634), (330, 38628), (379, 38547), (388, 38526), (454, 38400), (596, 38217), (599, 38211), (602, 38205), (649, 38127), (740, 38013), (772, 37986), (781, 37962), (801, 37902), (815, 37857), (830, 37836), (867, 37797), (875, 37779), (939, 37662), (964, 37614), (966, 37611), (971, 37596), (1013, 37500), (1023, 37479), (1036, 37449),

Gene: RAP15_29 Start: 22157, Stop: 23557, Start Num: 295

Candidate Starts for RAP15_29:

(Start: 295 @22157 has 213 MA's), (328, 22220), (Start: 387 @22325 has 1 MA's), (388, 22328), (429, 22412), (452, 22445), (509, 22496), (512, 22502), (575, 22583), (577, 22586), (580, 22592), (590, 22628), (599, 22646), (601, 22649), (620, 22703), (650, 22754), (704, 22835), (719, 22862), (754, 22892), (761, 22901), (777, 22928), (788, 22961), (794, 22976), (817, 23030), (860, 23051), (865, 23063), (904, 23075), (1012, 23297), (1017, 23306), (1019, 23312), (1034, 23348), (1063, 23408), (1072, 23435), (1140, 23525),

Gene: RSchmailzl_54 Start: 38877, Stop: 37399, Start Num: 277

Candidate Starts for RSchmailzl_54:

(Start: 277 @38877 has 49 MA's), (328, 38790), (330, 38784), (388, 38682), (454, 38556), (596, 38373), (599, 38367), (602, 38361), (649, 38283), (740, 38169), (772, 38142), (781, 38118), (801, 38058), (815, 38013), (830, 37992), (867, 37953), (875, 37935), (939, 37818), (964, 37770), (966, 37767), (971, 37752), (1013, 37656), (1023, 37635), (1036, 37605), (1146, 37416),

Gene: Raccoon_40 Start: 31223, Stop: 29832, Start Num: 319

Candidate Starts for Raccoon_40:

(Start: 242 @31325 has 2 MA's), (Start: 243 @31322 has 1 MA's), (245, 31319), (Start: 319 @31223 has 153 MA's), (405, 31076), (Start: 408 @31070 has 1 MA's), (410, 31067), (471, 30953), (511, 30926), (547, 30866), (572, 30839), (577, 30836), (622, 30740), (644, 30698), (781, 30527), (790, 30506), (801, 30479), (874, 30371), (927, 30275), (982, 30158), (991, 30140), (1023, 30074), (1024, 30068), (1031, 30056), (1077, 29960), (1109, 29906), (1112, 29903), (1128, 29879), (1151, 29849),

Gene: Racecar_102 Start: 80738, Stop: 82576, Start Num: 71

Candidate Starts for Racecar_102:

(Start: 71 @80738 has 13 MA's), (Start: 94 @80819 has 4 MA's), (127, 80897), (169, 80993), (222, 81053), (239, 81083), (310, 81203), (337, 81254), (435, 81314), (613, 81653), (648, 81710), (665, 81731), (693, 81776), (730, 81833), (777, 81839), (788, 81872), (793, 81884), (797, 81896), (814, 81941), (839, 81980), (888, 82037), (903, 82043), (920, 82076), (956, 82145), (993, 82229), (1054, 82346), (1152, 82520), (1169, 82562),

Gene: Rachella_40 Start: 25937, Stop: 27844, Start Num: 68

Candidate Starts for Rachella_40:

(Start: 68 @25937 has 36 MA's), (93, 26000), (106, 26021), (122, 26075), (199, 26252), (229, 26297), (335, 26471), (339, 26480), (394, 26570), (422, 26627), (543, 26813), (620, 26948), (624, 26960), (650, 26993), (777, 27122), (824, 27239), (888, 27314), (1009, 27548), (1010, 27551), (1037, 27611), (1080, 27701), (1097, 27731), (1126, 27773), (1163, 27824),

Gene: Rainydai_86 Start: 51423, Stop: 52613, Start Num: 295

Candidate Starts for Rainydai_86:

(Start: 295 @51423 has 213 MA's), (349, 51528), (413, 51597), (519, 51750), (536, 51768), (594, 51855), (622, 51909), (677, 52002), (693, 52029), (784, 52155), (805, 52218), (814, 52248), (824, 52266), (1047, 52413), (1077, 52482), (1086, 52497), (1095, 52512), (1105, 52530), (1107, 52533), (1115, 52542),

Gene: Ranch_60 Start: 39414, Stop: 41327, Start Num: 58

Candidate Starts for Ranch_60:

(Start: 51 @39399 has 11 MA's), (Start: 55 @39411 has 13 MA's), (Start: 58 @39414 has 23 MA's), (Start: 76 @39426 has 2 MA's), (Start: 89 @39474 has 2 MA's), (Start: 103 @39507 has 1 MA's), (125, 39576), (155, 39666), (172, 39693), (175, 39702), (219, 39774), (Start: 297 @39894 has 15 MA's), (331, 39957), (Start: 387 @40047 has 1 MA's), (401, 40074), (509, 40203), (519, 40227), (542, 40269), (577, 40317), (580, 40323), (583, 40338), (590, 40359), (620, 40416), (652, 40470), (679, 40512), (716, 40572), (788, 40668), (790, 40671), (915, 40848), (951, 40899), (992, 40989), (1009, 41025), (1012, 41031), (1037, 41085), (1059, 41124), (1112, 41226), (1123, 41241), (1137, 41262),

Gene: RanchParmCat_57 Start: 39886, Stop: 38411, Start Num: 280

Candidate Starts for RanchParmCat_57:

(Start: 280 @39886 has 11 MA's), (Start: 303 @39844 has 4 MA's), (330, 39796), (Start: 343 @39769 has 1 MA's), (359, 39739), (379, 39715), (388, 39694), (391, 39685), (394, 39679), (Start: 408 @39652 has 1 MA's), (443, 39595), (448, 39586), (454, 39568), (456, 39562), (577, 39439), (596, 39385), (599,

39379), (602, 39373), (639, 39310), (649, 39295), (661, 39280), (794, 39091), (797, 39082), (808, 39049), (825, 39010), (831, 39001), (867, 38965), (875, 38947), (877, 38941), (904, 38896), (907, 38890), (940, 38821), (966, 38773), (971, 38758), (988, 38716), (1013, 38662), (1028, 38629), (1036, 38611), (1066, 38548), (1093, 38500), (1099, 38488), (1104, 38479), (1146, 38422),

Gene: Rapheph_41 Start: 31114, Stop: 29726, Start Num: 319

Candidate Starts for Rapheph_41:

(39, 31765), (163, 31411), (197, 31336), (Start: 319 @31114 has 153 MA's), (405, 30970), (Start: 408 @30964 has 1 MA's), (410, 30961), (471, 30847), (511, 30820), (547, 30760), (572, 30733), (577, 30730), (622, 30634), (644, 30592), (777, 30430), (781, 30421), (790, 30400), (797, 30385), (801, 30373), (817, 30325), (874, 30265), (927, 30169), (960, 30106), (982, 30052), (1023, 29968), (1024, 29962), (1031, 29950), (1077, 29854), (1109, 29800), (1112, 29797), (1128, 29773),

Gene: Raptor_41 Start: 31121, Stop: 29733, Start Num: 319

Candidate Starts for Raptor_41:

(197, 31343), (Start: 319 @31121 has 153 MA's), (405, 30977), (Start: 408 @30971 has 1 MA's), (410, 30968), (471, 30854), (511, 30827), (547, 30767), (572, 30740), (577, 30737), (622, 30641), (644, 30599), (781, 30428), (790, 30407), (797, 30392), (801, 30380), (817, 30332), (874, 30272), (927, 30176), (960, 30113), (982, 30059), (1023, 29975), (1024, 29969), (1031, 29957), (1066, 29882), (1077, 29861), (1109, 29807), (1112, 29804), (1128, 29780),

Gene: Rasovi_33 Start: 23465, Stop: 24892, Start Num: 298

Candidate Starts for Rasovi_33:

(267, 23426), (287, 23447), (Start: 298 @23465 has 19 MA's), (511, 23822), (547, 23885), (583, 23930), (590, 23951), (740, 24218), (777, 24266), (785, 24287), (794, 24314), (807, 24341), (808, 24344), (817, 24371), (821, 24377), (903, 24413), (944, 24491), (953, 24512), (963, 24530), (969, 24542), (1009, 24626), (1034, 24683), (1043, 24695), (1061, 24734), (1072, 24770), (1075, 24776),

Gene: Raunak_75 Start: 45832, Stop: 47061, Start Num: 295

Candidate Starts for Raunak_75:

(Start: 295 @45832 has 213 MA's), (388, 46003), (455, 46135), (578, 46270), (587, 46300), (614, 46357), (677, 46462), (680, 46468), (698, 46501), (781, 46606), (993, 46786), (1107, 46999), (1140, 47044),

Gene: RavenPuff_54 Start: 37520, Stop: 38698, Start Num: 297

Candidate Starts for RavenPuff_54:

(Start: 297 @37520 has 15 MA's), (312, 37553), (Start: 318 @37562 has 13 MA's), (347, 37619), (426, 37712), (519, 37841), (587, 37931), (590, 37940), (614, 37988), (622, 38000), (677, 38093), (690, 38114), (701, 38138), (713, 38153), (765, 38207), (773, 38216), (781, 38237), (782, 38240), (784, 38246), (795, 38279), (978, 38381), (1013, 38444), (1018, 38453), (1047, 38510), (1057, 38528), (1086, 38594), (1098, 38615), (1141, 38675),

Gene: RazorC_60 Start: 39561, Stop: 41474, Start Num: 58

Candidate Starts for RazorC_60:

(Start: 55 @39558 has 13 MA's), (Start: 58 @39561 has 23 MA's), (Start: 76 @39573 has 2 MA's), (Start: 89 @39621 has 2 MA's), (Start: 103 @39654 has 1 MA's), (155, 39813), (172, 39840), (175, 39849), (219, 39921), (Start: 297 @40041 has 15 MA's), (331, 40104), (Start: 387 @40194 has 1 MA's), (401, 40221), (509, 40350), (519, 40374), (542, 40416), (548, 40428), (562, 40443), (577, 40464), (583, 40485), (590, 40506), (620, 40563), (627, 40581), (652, 40617), (679, 40659), (716, 40719), (788, 40815), (790, 40818), (915, 40995), (951, 41046), (992, 41136), (1009, 41172), (1012, 41178), (1037, 41232), (1059, 41271), (1112, 41373), (1123, 41388), (1137, 41409),

Gene: RcigaStruga_29 Start: 22127, Stop: 23518, Start Num: 295

Candidate Starts for RcigaStruga_29:

(Start: 295 @22127 has 213 MA's), (Start: 343 @22214 has 1 MA's), (Start: 387 @22286 has 1 MA's), (388, 22289), (419, 22355), (429, 22373), (433, 22379), (452, 22406), (512, 22463), (575, 22544), (580, 22553), (590, 22589), (599, 22607), (610, 22643), (620, 22664), (627, 22682), (650, 22715), (681, 22754), (704, 22796), (719, 22823), (742, 22847), (775, 22883), (777, 22889), (788, 22922), (794, 22937), (797, 22946), (817, 22991), (865, 23024), (866, 23027), (942, 23108), (961, 23144), (963, 23150), (969, 23162), (1009, 23252), (1019, 23273), (1020, 23276), (1031, 23300), (1034, 23309), (1072, 23396), (1113, 23447), (1140, 23486), (1156, 23510),

Gene: RedBaron_58 Start: 39379, Stop: 37904, Start Num: 280

Candidate Starts for RedBaron_58:

(271, 39388), (Start: 280 @39379 has 11 MA's), (312, 39316), (328, 39295), (330, 39289), (379, 39208), (388, 39187), (453, 39064), (454, 39061), (580, 38926), (596, 38878), (599, 38872), (602, 38866), (649, 38788), (740, 38674), (772, 38647), (781, 38623), (801, 38563), (815, 38518), (830, 38497), (867, 38458), (875, 38440), (939, 38323), (964, 38275), (966, 38272), (971, 38257), (1013, 38161), (1023, 38140), (1036, 38110),

Gene: RedRaider_79 Start: 58956, Stop: 56899, Start Num: 35

Candidate Starts for RedRaider_79:

(1, 59529), (6, 59244), (Start: 35 @58956 has 35 MA's), (182, 58581), (199, 58548), (Start: 275 @58440 has 1 MA's), (Start: 306 @58389 has 28 MA's), (339, 58329), (341, 58326), (Start: 387 @58254 has 1 MA's), (394, 58236), (441, 58173), (443, 58167), (520, 58074), (553, 58017), (573, 57993), (627, 57870), (645, 57837), (688, 57774), (777, 57651), (805, 57582), (810, 57564), (876, 57459), (879, 57450), (921, 57390), (942, 57351), (956, 57321), (981, 57264), (1009, 57204), (1023, 57174), (1040, 57141), (1071, 57069), (1133, 56976),

Gene: Redfield_40 Start: 31255, Stop: 29864, Start Num: 319

Candidate Starts for Redfield_40:

(Start: 242 @31357 has 2 MA's), (Start: 243 @31354 has 1 MA's), (245, 31351), (Start: 319 @31255 has 153 MA's), (405, 31108), (Start: 408 @31102 has 1 MA's), (410, 31099), (471, 30985), (511, 30958), (547, 30898), (572, 30871), (577, 30868), (622, 30772), (644, 30730), (781, 30559), (790, 30538), (801, 30511), (874, 30403), (927, 30307), (982, 30190), (991, 30172), (1023, 30106), (1024, 30100), (1031, 30088), (1077, 29992), (1109, 29938), (1112, 29935), (1128, 29911), (1151, 29881),

Gene: Regigigas_89 Start: 51035, Stop: 52225, Start Num: 295

Candidate Starts for Regigigas_89:

(Start: 295 @51035 has 213 MA's), (349, 51140), (413, 51209), (519, 51362), (536, 51380), (594, 51467), (622, 51521), (677, 51614), (693, 51641), (784, 51767), (805, 51830), (814, 51860), (824, 51878), (1047, 52025), (1077, 52094), (1086, 52109), (1095, 52124), (1105, 52142), (1107, 52145), (1115, 52154),

Gene: ReginaGlobina_100 Start: 80422, Stop: 82278, Start Num: 71

Candidate Starts for ReginaGlobina_100:

(Start: 71 @80422 has 13 MA's), (169, 80695), (248, 80800), (Start: 322 @80923 has 4 MA's), (329, 80935), (333, 80944), (448, 81040), (497, 81115), (519, 81175), (601, 81328), (623, 81373), (665, 81433), (693, 81478), (730, 81535), (777, 81541), (788, 81574), (793, 81586), (797, 81598), (878, 81715), (879, 81718), (920, 81775), (940, 81811), (947, 81823), (956, 81844), (993, 81928), (1040, 82021), (1054, 82045), (1147, 82213), (1149, 82216),

Gene: RemRem_60 Start: 51466, Stop: 49934, Start Num: 306

Candidate Starts for RemRem_60:

(177, 51721), (201, 51670), (220, 51619), (248, 51565), (265, 51535), (Start: 290 @51502 has 3 MA's), (Start: 295 @51493 has 213 MA's), (Start: 306 @51466 has 28 MA's), (Start: 395 @51298 has 1

MA's), (416, 51256), (443, 51208), (449, 51196), (453, 51184), (455, 51178), (464, 51157), (479, 51130), (525, 50989), (580, 50902), (583, 50887), (587, 50875), (601, 50845), (622, 50794), (634, 50767), (665, 50716), (690, 50674), (698, 50656), (700, 50653), (714, 50626), (747, 50584), (776, 50539), (857, 50404), (865, 50389), (883, 50368), (937, 50311), (951, 50287), (953, 50284), (982, 50227), (985, 50221), (988, 50215), (990, 50209), (1016, 50158), (1025, 50134), (1048, 50095), (1055, 50083), (1057, 50080), (1099, 49987), (1109, 49972), (1125, 49951),

Gene: Renaldo_84 Start: 47621, Stop: 48868, Start Num: 294

Candidate Starts for Renaldo_84:

(Start: 294 @47621 has 45 MA's), (388, 47795), (413, 47849), (455, 47927), (587, 48092), (590, 48101), (677, 48254), (781, 48398), (1096, 48773), (1107, 48791),

Gene: RenegadeRaider_42 Start: 30486, Stop: 29236, Start Num: 405

Candidate Starts for RenegadeRaider_42:

(226, 30789), (252, 30744), (271, 30714), (Start: 305 @30660 has 1 MA's), (Start: 315 @30642 has 2 MA's), (Start: 323 @30630 has 8 MA's), (Start: 327 @30624 has 23 MA's), (339, 30594), (405, 30486), (Start: 408 @30480 has 1 MA's), (410, 30477), (416, 30462), (547, 30276), (554, 30267), (577, 30246), (590, 30204), (622, 30150), (781, 29937), (790, 29916), (797, 29901), (801, 29889), (806, 29874), (820, 29838), (826, 29829), (857, 29814), (874, 29778), (927, 29679), (960, 29616), (972, 29589), (1005, 29514), (1009, 29508), (1013, 29499), (1020, 29484), (1023, 29478), (1024, 29472), (1093, 29337), (1099, 29325), (1152, 29250),

Gene: Renzie_41 Start: 31109, Stop: 29721, Start Num: 319

Candidate Starts for Renzie_41:

(197, 31331), (Start: 319 @31109 has 153 MA's), (405, 30965), (Start: 408 @30959 has 1 MA's), (410, 30956), (471, 30842), (511, 30815), (547, 30755), (572, 30728), (577, 30725), (622, 30629), (644, 30587), (781, 30416), (790, 30395), (797, 30380), (801, 30368), (817, 30320), (874, 30260), (927, 30164), (960, 30101), (982, 30047), (1023, 29963), (1024, 29957), (1031, 29945), (1066, 29870), (1077, 29849), (1109, 29795), (1112, 29792), (1128, 29768),

Gene: Reynauld_56 Start: 50676, Stop: 49183, Start Num: 316

Candidate Starts for Reynauld_56:

(Start: 316 @50676 has 5 MA's), (349, 50640), (368, 50607), (Start: 375 @50598 has 28 MA's), (381, 50589), (385, 50580), (388, 50571), (Start: 395 @50553 has 1 MA's), (432, 50493), (443, 50481), (448, 50472), (499, 50325), (521, 50268), (536, 50244), (577, 50181), (622, 50067), (663, 49992), (665, 49989), (679, 49965), (690, 49947), (700, 49926), (721, 49887), (731, 49875), (733, 49872), (827, 49695), (881, 49659), (990, 49446), (1011, 49404), (1045, 49338), (1074, 49263), (1082, 49248),

Gene: Rickmore_86 Start: 54058, Stop: 55281, Start Num: 295

Candidate Starts for Rickmore_86:

(Start: 295 @54058 has 213 MA's), (299, 54064), (Start: 327 @54118 has 23 MA's), (328, 54121), (333, 54133), (347, 54160), (349, 54163), (359, 54184), (392, 54226), (413, 54268), (433, 54301), (455, 54346), (518, 54418), (519, 54421), (578, 54481), (623, 54583), (639, 54613), (671, 54664), (677, 54673), (698, 54712), (700, 54715), (717, 54739), (725, 54751), (760, 54778), (765, 54787), (776, 54805), (779, 54814), (781, 54817), (798, 54868), (814, 54919), (865, 54949), (1018, 55036), (1068, 55144), (1096, 55195), (1115, 55222), (1138, 55255), (1149, 55270),

Gene: Riduram_59 Start: 39137, Stop: 41050, Start Num: 58

Candidate Starts for Riduram_59:

(Start: 55 @39134 has 13 MA's), (Start: 58 @39137 has 23 MA's), (Start: 76 @39149 has 2 MA's), (Start: 89 @39197 has 2 MA's), (Start: 103 @39230 has 1 MA's), (155, 39389), (172, 39416), (175, 39425), (219, 39497), (Start: 297 @39617 has 15 MA's), (331, 39680), (Start: 387 @39770 has 1 MA's), (401, 39797), (509, 39926), (519, 39950), (542, 39992), (548, 40004), (562, 40019), (577,

40040), (583, 40061), (590, 40082), (620, 40139), (627, 40157), (652, 40193), (679, 40235), (716, 40295), (788, 40391), (790, 40394), (915, 40571), (951, 40622), (992, 40712), (1009, 40748), (1012, 40754), (1037, 40808), (1059, 40847), (1112, 40949), (1123, 40964), (1137, 40985),

Gene: Rie18_40 Start: 25493, Stop: 27400, Start Num: 68

Candidate Starts for Rie18_40:

(17, 25319), (Start: 68 @25493 has 36 MA's), (93, 25556), (106, 25577), (122, 25631), (191, 25793), (199, 25808), (229, 25853), (335, 26027), (339, 26036), (394, 26126), (Start: 395 @26129 has 1 MA's), (415, 26168), (422, 26183), (520, 26333), (543, 26369), (603, 26477), (620, 26504), (624, 26516), (650, 26549), (777, 26678), (824, 26795), (1010, 27107), (1037, 27167), (1080, 27257), (1097, 27287), (1101, 27293), (1126, 27329), (1163, 27380),

Gene: RikSengupta_42 Start: 26725, Stop: 28659, Start Num: 72

Candidate Starts for RikSengupta_42:

(Start: 30 @26629 has 1 MA's), (66, 26719), (Start: 72 @26725 has 6 MA's), (122, 26872), (127, 26890), (199, 27049), (283, 27175), (335, 27265), (339, 27274), (394, 27364), (415, 27406), (431, 27436), (519, 27568), (624, 27754), (637, 27772), (650, 27787), (688, 27844), (726, 27904), (798, 27976), (865, 28093), (881, 28114), (926, 28180), (940, 28210), (977, 28288), (1010, 28366), (1037, 28426), (1059, 28465), (1080, 28516), (1092, 28534), (1164, 28642),

Gene: Rima_82 Start: 49849, Stop: 51033, Start Num: 295

Candidate Starts for Rima_82:

(Start: 295 @49849 has 213 MA's), (Start: 318 @49894 has 13 MA's), (333, 49924), (455, 50095), (518, 50167), (547, 50206), (587, 50269), (677, 50431), (698, 50470), (701, 50476), (720, 50503), (781, 50575), (799, 50629), (807, 50653), (814, 50677), (817, 50683), (909, 50707), (978, 50713), (1036, 50827), (1086, 50926), (1089, 50932), (1107, 50962), (1115, 50971), (1153, 51025),

Gene: Rings_71 Start: 47461, Stop: 46067, Start Num: 317

Candidate Starts for Rings_71:

(Start: 317 @47461 has 13 MA's), (353, 47392), (399, 47317), (409, 47299), (425, 47269), (467, 47188), (582, 47038), (656, 46894), (679, 46855), (773, 46741), (809, 46690), (831, 46669), (850, 46639), (860, 46624), (865, 46612), (914, 46531), (936, 46483), (950, 46456), (962, 46435), (997, 46351), (1032, 46285), (1139, 46096), (1146, 46084),

Gene: Riovina_26 Start: 21745, Stop: 23139, Start Num: 295

Candidate Starts for Riovina_26:

(Start: 295 @21745 has 213 MA's), (328, 21802), (379, 21889), (Start: 387 @21907 has 1 MA's), (388, 21910), (429, 21994), (452, 22027), (509, 22078), (512, 22084), (547, 22144), (580, 22174), (590, 22210), (599, 22228), (620, 22285), (627, 22303), (630, 22309), (650, 22336), (704, 22417), (719, 22444), (742, 22468), (761, 22483), (777, 22510), (788, 22543), (794, 22558), (924, 22690), (940, 22726), (953, 22753), (961, 22765), (969, 22783), (1009, 22873), (1012, 22879), (1019, 22894), (1020, 22897), (1034, 22930), (1063, 22990), (1072, 23017), (1117, 23074), (1140, 23107), (1156, 23131),

Gene: Riparian_68 Start: 47408, Stop: 49168, Start Num: 183

Candidate Starts for Riparian_68:

(Start: 183 @47408 has 10 MA's), (226, 47477), (Start: 294 @47573 has 45 MA's), (299, 47582), (Start: 342 @47663 has 7 MA's), (373, 47708), (509, 47909), (534, 47957), (573, 48017), (580, 48029), (605, 48095), (672, 48218), (688, 48242), (700, 48266), (777, 48470), (788, 48503), (794, 48518), (810, 48557), (811, 48560), (814, 48569), (865, 48638), (965, 48770), (1009, 48893), (1010, 48896), (1023, 48923), (1037, 48953), (1042, 48959), (1044, 48962), (1054, 48980), (1059, 48992), (1137, 49127), (1159, 49157),

Gene: Riverdale_29 Start: 22087, Stop: 23487, Start Num: 295

Candidate Starts for Riverdale_29:

(Start: 295 @22087 has 213 MA's), (328, 22150), (Start: 387 @22255 has 1 MA's), (388, 22258), (429, 22342), (452, 22375), (509, 22426), (512, 22432), (575, 22513), (577, 22516), (580, 22522), (590, 22558), (599, 22576), (601, 22579), (610, 22612), (620, 22633), (627, 22651), (650, 22684), (704, 22765), (719, 22792), (754, 22822), (761, 22831), (777, 22858), (788, 22891), (794, 22906), (817, 22960), (860, 22981), (865, 22993), (904, 23005), (1012, 23227), (1017, 23236), (1019, 23242), (1034, 23278), (1063, 23338), (1072, 23365), (1140, 23455),

Gene: Riyhil_41 Start: 31124, Stop: 29736, Start Num: 319

Candidate Starts for Riyhil_41:

(197, 31346), (Start: 319 @31124 has 153 MA's), (405, 30980), (Start: 408 @30974 has 1 MA's), (410, 30971), (471, 30857), (511, 30830), (547, 30770), (572, 30743), (577, 30740), (622, 30644), (644, 30602), (781, 30431), (790, 30410), (797, 30395), (801, 30383), (817, 30335), (874, 30275), (927, 30179), (960, 30116), (982, 30062), (1023, 29978), (1024, 29972), (1031, 29960), (1077, 29864), (1109, 29810), (1112, 29807), (1128, 29783),

Gene: Roberts_38 Start: 26376, Stop: 24544, Start Num: 75

Candidate Starts for Roberts_38:

(Start: 75 @26376 has 19 MA's), (90, 26319), (174, 26118), (248, 25983), (329, 25848), (341, 25821), (438, 25764), (444, 25749), (467, 25695), (519, 25599), (522, 25593), (530, 25578), (557, 25533), (583, 25485), (590, 25464), (599, 25446), (624, 25395), (687, 25302), (693, 25290), (777, 25227), (808, 25155), (840, 25095), (875, 25074), (920, 25008), (933, 24990), (940, 24972), (942, 24969), (961, 24933), (1009, 24825), (1013, 24816), (1044, 24756), (1063, 24708),

Gene: RobinSparkles_61 Start: 50974, Stop: 49484, Start Num: 313

Candidate Starts for RobinSparkles_61:

(Start: 313 @50974 has 5 MA's), (381, 50881), (385, 50872), (389, 50860), (Start: 395 @50845 has 1 MA's), (Start: 408 @50827 has 1 MA's), (444, 50770), (476, 50698), (477, 50695), (494, 50602), (507, 50569), (521, 50536), (523, 50533), (536, 50512), (580, 50443), (590, 50407), (628, 50320), (665, 50257), (666, 50254), (685, 50224), (723, 50152), (731, 50143), (805, 50020), (807, 50014), (933, 49882), (953, 49840), (978, 49795), (990, 49765), (1116, 49513),

Gene: Robinson_41 Start: 31112, Stop: 29724, Start Num: 319

Candidate Starts for Robinson_41:

(197, 31334), (Start: 319 @31112 has 153 MA's), (405, 30968), (Start: 408 @30962 has 1 MA's), (410, 30959), (471, 30845), (511, 30818), (547, 30758), (572, 30731), (577, 30728), (622, 30632), (644, 30590), (781, 30419), (790, 30398), (797, 30383), (801, 30371), (817, 30323), (874, 30263), (927, 30167), (960, 30104), (982, 30050), (1023, 29966), (1024, 29960), (1031, 29948), (1077, 29852), (1109, 29798), (1112, 29795), (1128, 29771),

Gene: Rockabye_105 Start: 73971, Stop: 75830, Start Num: 71

Candidate Starts for Rockabye_105:

(Start: 71 @73971 has 13 MA's), (150, 74187), (169, 74229), (172, 74235), (208, 74268), (239, 74337), (248, 74352), (269, 74388), (Start: 297 @74427 has 15 MA's), (337, 74508), (435, 74568), (596, 74871), (665, 74985), (693, 75030), (777, 75093), (788, 75126), (793, 75138), (811, 75186), (819, 75204), (878, 75270), (879, 75273), (888, 75291), (920, 75330), (956, 75399), (965, 75414), (976, 75441), (991, 75477), (993, 75483), (1054, 75600), (1114, 75720), (1149, 75771),

Gene: Rog141_40 Start: 30803, Stop: 29415, Start Num: 319

Candidate Starts for Rog141_40:

(39, 31454), (163, 31100), (197, 31025), (Start: 319 @30803 has 153 MA's), (405, 30659), (Start: 408 @30653 has 1 MA's), (410, 30650), (471, 30536), (511, 30509), (547, 30449), (572, 30422), (577, 30419), (622, 30323), (644, 30281), (781, 30110), (790, 30089), (797, 30074), (817, 30014), (874,

29954), (927, 29858), (960, 29795), (982, 29741), (1023, 29657), (1024, 29651), (1031, 29639), (1077, 29543), (1109, 29489), (1112, 29486), (1128, 29462),

Gene: Roman_81 Start: 50015, Stop: 48492, Start Num: 292

Candidate Starts for Roman_81:

(159, 50276), (Start: 292 @50015 has 28 MA's), (347, 49904), (374, 49865), (383, 49856), (429, 49760), (451, 49718), (457, 49700), (535, 49601), (537, 49598), (575, 49538), (592, 49496), (661, 49373), (683, 49337), (707, 49298), (767, 49232), (781, 49205), (787, 49187), (798, 49157), (819, 49097), (840, 49067), (848, 49055), (850, 49049), (1010, 48740), (1019, 48722), (1037, 48680), (1042, 48674), (1053, 48656), (1054, 48653),

Gene: Roney_85 Start: 53676, Stop: 54896, Start Num: 295

Candidate Starts for Roney_85:

(Start: 295 @53676 has 213 MA's), (Start: 327 @53736 has 23 MA's), (328, 53739), (347, 53778), (359, 53802), (392, 53844), (413, 53886), (433, 53919), (452, 53958), (455, 53964), (518, 54036), (578, 54099), (623, 54201), (639, 54231), (650, 54249), (671, 54282), (673, 54285), (677, 54291), (711, 54348), (717, 54357), (722, 54366), (725, 54369), (765, 54405), (773, 54414), (776, 54423), (781, 54435), (798, 54486), (799, 54489), (814, 54540), (819, 54549), (992, 54618), (1018, 54657), (1068, 54765), (1086, 54798), (1096, 54816), (1115, 54843),

Gene: Rooney_70 Start: 50294, Stop: 48408, Start Num: 61

Candidate Starts for Rooney_70:

(Start: 61 @50294 has 8 MA's), (73, 50279), (93, 50216), (97, 50207), (137, 50102), (152, 50063), (161, 50039), (199, 49964), (219, 49940), (312, 49781), (335, 49742), (339, 49733), (402, 49625), (462, 49517), (512, 49469), (577, 49364), (595, 49313), (624, 49253), (672, 49187), (687, 49166), (688, 49163), (788, 49058), (792, 49049), (796, 49037), (865, 48938), (951, 48821), (958, 48809), (971, 48782), (1010, 48692), (1018, 48677), (1044, 48623), (1068, 48566), (1137, 48458), (1149, 48440),

Gene: Rootkit7_33 Start: 23258, Stop: 24685, Start Num: 298

Candidate Starts for Rootkit7_33:

(270, 23216), (Start: 298 @23258 has 19 MA's), (464, 23576), (583, 23723), (590, 23744), (740, 24011), (777, 24059), (785, 24080), (808, 24137), (821, 24170), (903, 24206), (944, 24284), (953, 24305), (991, 24386), (992, 24389), (1034, 24476), (1043, 24488), (1061, 24527), (1072, 24563), (1075, 24569), (1082, 24581), (1134, 24644),

Gene: Rope_66 Start: 47562, Stop: 49322, Start Num: 183

Candidate Starts for Rope_66:

(Start: 183 @47562 has 10 MA's), (226, 47631), (Start: 294 @47727 has 45 MA's), (299, 47736), (Start: 342 @47817 has 7 MA's), (373, 47862), (509, 48063), (534, 48111), (573, 48171), (580, 48183), (605, 48249), (672, 48372), (688, 48396), (700, 48420), (777, 48624), (788, 48657), (794, 48672), (810, 48711), (811, 48714), (814, 48723), (865, 48792), (965, 48924), (1009, 49047), (1010, 49050), (1023, 49077), (1037, 49107), (1042, 49113), (1044, 49116), (1054, 49134), (1059, 49146), (1137, 49281), (1157, 49308), (1159, 49311),

Gene: RosaAsantewaa_50 Start: 36703, Stop: 37884, Start Num: 297

Candidate Starts for RosaAsantewaa_50:

(Start: 297 @36703 has 15 MA's), (333, 36775), (353, 36814), (399, 36844), (413, 36874), (452, 36943), (455, 36952), (578, 37087), (580, 37090), (587, 37117), (596, 37138), (622, 37186), (623, 37189), (645, 37231), (677, 37279), (698, 37318), (722, 37354), (781, 37423), (807, 37501), (824, 37543), (978, 37561), (1009, 37615), (1090, 37780), (1098, 37795), (1105, 37807), (1115, 37819), (1157, 37879),

Gene: RosieMae_40 Start: 30861, Stop: 29473, Start Num: 319

Candidate Starts for RosieMae_40:

(197, 31083), (Start: 319 @30861 has 153 MA's), (405, 30717), (Start: 408 @30711 has 1 MA's), (410, 30708), (465, 30603), (471, 30594), (511, 30567), (547, 30507), (572, 30480), (577, 30477), (622, 30381), (644, 30339), (781, 30168), (790, 30147), (797, 30132), (817, 30072), (874, 30012), (927, 29916), (960, 29853), (982, 29799), (1023, 29715), (1024, 29709), (1031, 29697), (1077, 29601), (1109, 29547), (1112, 29544), (1128, 29520),

Gene: RosiePosie_90 Start: 58873, Stop: 60618, Start Num: 158

Candidate Starts for RosiePosie_90:

(Start: 158 @58873 has 18 MA's), (168, 58894), (205, 58972), (214, 58996), (236, 59041), (251, 59065), (Start: 278 @59104 has 3 MA's), (366, 59263), (Start: 375 @59272 has 28 MA's), (394, 59314), (405, 59335), (430, 59368), (435, 59374), (438, 59377), (444, 59392), (452, 59407), (527, 59494), (534, 59506), (538, 59512), (563, 59548), (578, 59572), (582, 59584), (652, 59716), (710, 59800), (724, 59821), (741, 59833), (759, 59848), (761, 59851), (777, 59875), (787, 59899), (793, 59911), (812, 59968), (856, 60013), (885, 60079), (893, 60091), (898, 60100), (907, 60124), (909, 60127), (928, 60163), (932, 60169), (940, 60193), (980, 60274), (981, 60280), (989, 60298), (998, 60325), (1002, 60331), (1019, 60361), (1021, 60367), (1053, 60427), (1073, 60478), (1076, 60484), (1099, 60523),

Gene: Rota_56 Start: 39801, Stop: 41717, Start Num: 55

Candidate Starts for Rota_56:

(Start: 55 @39801 has 13 MA's), (Start: 58 @39804 has 23 MA's), (Start: 76 @39816 has 2 MA's), (Start: 89 @39864 has 2 MA's), (Start: 103 @39897 has 1 MA's), (125, 39966), (155, 40056), (172, 40083), (175, 40092), (219, 40164), (269, 40251), (Start: 295 @40281 has 213 MA's), (Start: 297 @40284 has 15 MA's), (331, 40347), (Start: 387 @40437 has 1 MA's), (401, 40464), (509, 40593), (519, 40617), (542, 40659), (577, 40707), (583, 40728), (590, 40749), (620, 40806), (652, 40860), (679, 40902), (716, 40962), (788, 41058), (790, 41061), (915, 41238), (951, 41289), (991, 41376), (992, 41379), (1009, 41415), (1012, 41421), (1037, 41475), (1059, 41514), (1112, 41616), (1123, 41631), (1137, 41652), (1168, 41709),

Gene: RoyalG_59 Start: 52241, Stop: 50709, Start Num: 306

Candidate Starts for RoyalG_59:

(177, 52496), (201, 52445), (248, 52340), (265, 52310), (Start: 290 @52277 has 3 MA's), (Start: 295 @52268 has 213 MA's), (Start: 306 @52241 has 28 MA's), (Start: 375 @52118 has 28 MA's), (Start: 395 @52073 has 1 MA's), (416, 52031), (443, 51983), (444, 51980), (448, 51974), (449, 51971), (455, 51953), (464, 51932), (479, 51905), (516, 51782), (525, 51764), (580, 51677), (583, 51662), (622, 51569), (665, 51491), (679, 51467), (698, 51431), (714, 51401), (747, 51359), (776, 51314), (857, 51179), (865, 51164), (883, 51143), (953, 51059), (982, 51002), (985, 50996), (990, 50984), (1016, 50933), (1025, 50909), (1048, 50870), (1055, 50858), (1057, 50855), (1099, 50762), (1109, 50747),

Gene: Rozby_29 Start: 22088, Stop: 23488, Start Num: 295

Candidate Starts for Rozby_29:

(Start: 295 @22088 has 213 MA's), (328, 22151), (Start: 387 @22256 has 1 MA's), (388, 22259), (429, 22343), (452, 22376), (509, 22427), (512, 22433), (575, 22514), (577, 22517), (580, 22523), (590, 22559), (599, 22577), (601, 22580), (610, 22613), (620, 22634), (627, 22652), (650, 22685), (704, 22766), (719, 22793), (754, 22823), (761, 22832), (777, 22859), (788, 22892), (794, 22907), (817, 22961), (860, 22982), (865, 22994), (904, 23006), (1012, 23228), (1017, 23237), (1019, 23243), (1034, 23279), (1063, 23339), (1072, 23366), (1140, 23456),

Gene: Rukungu_63 Start: 41487, Stop: 43400, Start Num: 58

Candidate Starts for Rukungu_63:

(18, 41361), (21, 41370), (24, 41382), (33, 41415), (Start: 55 @41484 has 13 MA's), (Start: 58 @41487 has 23 MA's), (Start: 76 @41499 has 2 MA's), (Start: 89 @41547 has 2 MA's), (Start: 103 @41580 has 1 MA's), (125, 41649), (155, 41739), (172, 41766), (175, 41775), (219, 41847), (269, 41934), (Start: 297 @41967 has 15 MA's), (331, 42030), (Start: 387 @42120 has 1 MA's), (509, 42276), (519, 42300), (542, 42342), (577, 42390), (583, 42411), (590, 42432), (620, 42489), (652, 42543), (679, 42585), (716, 42645), (788, 42741), (790, 42744), (915, 42921), (951, 42972), (992, 43062), (1009, 43098), (1012, 43104), (1037, 43158), (1059, 43197), (1112, 43299), (1123, 43314), (1137, 43335),

Gene: Rumi_61 Start: 39105, Stop: 41018, Start Num: 58

Candidate Starts for Rumi_61:

(Start: 55 @39102 has 13 MA's), (Start: 58 @39105 has 23 MA's), (Start: 76 @39117 has 2 MA's), (Start: 89 @39165 has 2 MA's), (Start: 103 @39198 has 1 MA's), (155, 39357), (172, 39384), (175, 39393), (219, 39465), (Start: 297 @39585 has 15 MA's), (331, 39648), (Start: 387 @39738 has 1 MA's), (401, 39765), (509, 39894), (519, 39918), (542, 39960), (548, 39972), (562, 39987), (577, 40008), (583, 40029), (590, 40050), (620, 40107), (627, 40125), (652, 40161), (679, 40203), (716, 40263), (788, 40359), (790, 40362), (915, 40539), (951, 40590), (992, 40680), (1009, 40716), (1012, 40722), (1037, 40776), (1059, 40815), (1112, 40917), (1123, 40932), (1137, 40953),

Gene: Runhaar_84 Start: 54080, Stop: 55294, Start Num: 295

Candidate Starts for Runhaar_84:

(Start: 295 @54080 has 213 MA's), (299, 54086), (Start: 327 @54140 has 23 MA's), (328, 54143), (333, 54155), (359, 54206), (392, 54248), (413, 54290), (429, 54317), (433, 54323), (452, 54362), (455, 54368), (518, 54440), (519, 54443), (578, 54503), (623, 54605), (639, 54635), (657, 54662), (671, 54686), (677, 54695), (695, 54725), (698, 54734), (700, 54737), (717, 54761), (725, 54773), (760, 54800), (765, 54809), (776, 54827), (779, 54836), (781, 54839), (784, 54848), (799, 54893), (807, 54917), (814, 54941), (910, 54986), (1009, 55040), (1012, 55046), (1018, 55058), (1068, 55166), (1096, 55217), (1115, 55244), (1138, 55277),

Gene: RunningBrook_86 Start: 50790, Stop: 49270, Start Num: 292

Candidate Starts for RunningBrook_86:

(265, 50823), (Start: 292 @50790 has 28 MA's), (Start: 315 @50739 has 2 MA's), (383, 50631), (412, 50565), (449, 50499), (535, 50376), (541, 50361), (578, 50304), (590, 50271), (592, 50268), (623, 50205), (653, 50154), (661, 50145), (665, 50136), (697, 50082), (723, 50043), (745, 50028), (787, 49959), (798, 49929), (821, 49866), (865, 49794), (962, 49608), (1019, 49500), (1032, 49470), (1057, 49425), (1077, 49374), (1120, 49311),

Gene: RustyBoy_78 Start: 46576, Stop: 47826, Start Num: 295

Candidate Starts for RustyBoy_78:

(Start: 295 @46576 has 213 MA's), (388, 46747), (455, 46879), (504, 46915), (519, 46954), (578, 47014), (587, 47044), (677, 47206), (698, 47245), (781, 47350), (867, 47488), (1013, 47557), (1079, 47695), (1096, 47725), (1107, 47743),

Gene: SBlackberry_33 Start: 23236, Stop: 24663, Start Num: 298

Candidate Starts for SBlackberry_33:

(Start: 298 @23236 has 19 MA's), (464, 23554), (511, 23593), (547, 23656), (583, 23701), (590, 23722), (630, 23821), (740, 23989), (777, 24037), (785, 24058), (794, 24085), (807, 24112), (817, 24142), (819, 24145), (821, 24148), (903, 24184), (944, 24262), (981, 24346), (991, 24364), (992, 24367), (1034, 24454), (1043, 24466), (1061, 24505), (1072, 24541), (1075, 24547), (1113, 24592), (1134, 24622),

Gene: SJReid_105 Start: 73084, Stop: 74940, Start Num: 71

Candidate Starts for SJReid_105:

(Start: 71 @73084 has 13 MA's), (169, 73342), (172, 73348), (208, 73381), (210, 73390), (239, 73450), (248, 73465), (Start: 297 @73540 has 15 MA's), (310, 73570), (337, 73621), (435, 73681), (596, 73984), (665, 74098), (693, 74143), (730, 74200), (777, 74206), (788, 74239), (793, 74251), (811, 74299), (814, 74308), (819, 74317), (879, 74386), (920, 74443), (956, 74512), (991, 74590), (993, 74596), (1040, 74689), (1054, 74713), (1089, 74794), (1114, 74833), (1149, 74884),

Gene: SJay_41 Start: 31115, Stop: 29727, Start Num: 319

Candidate Starts for SJay_41:

(39, 31766), (163, 31412), (197, 31337), (Start: 319 @31115 has 153 MA's), (405, 30971), (Start: 408 @30965 has 1 MA's), (410, 30962), (471, 30848), (511, 30821), (547, 30761), (572, 30734), (577, 30731), (622, 30635), (644, 30593), (777, 30431), (781, 30422), (790, 30401), (797, 30386), (801, 30374), (817, 30326), (874, 30266), (927, 30170), (960, 30107), (982, 30053), (1023, 29969), (1024, 29963), (1031, 29951), (1066, 29876), (1077, 29855), (1109, 29801), (1112, 29798), (1128, 29774),

Gene: Sadboi_61 Start: 41296, Stop: 43209, Start Num: 58

Candidate Starts for Sadboi_61:

(Start: 55 @41293 has 13 MA's), (Start: 58 @41296 has 23 MA's), (Start: 76 @41308 has 2 MA's), (Start: 89 @41356 has 2 MA's), (Start: 103 @41389 has 1 MA's), (125, 41458), (155, 41548), (172, 41575), (175, 41584), (219, 41656), (269, 41743), (Start: 297 @41776 has 15 MA's), (331, 41839), (Start: 387 @41929 has 1 MA's), (401, 41956), (509, 42085), (519, 42109), (542, 42151), (577, 42199), (583, 42220), (590, 42241), (620, 42298), (652, 42352), (679, 42394), (716, 42454), (788, 42550), (790, 42553), (915, 42730), (951, 42781), (992, 42871), (1009, 42907), (1012, 42913), (1037, 42967), (1059, 43006), (1112, 43108), (1123, 43123), (1137, 43144),

Gene: Salgado_95 Start: 54910, Stop: 56574, Start Num: 185

Candidate Starts for Salgado_95:

(Start: 185 @54910 has 9 MA's), (216, 54973), (244, 55033), (265, 55069), (Start: 295 @55114 has 213 MA's), (361, 55234), (421, 55327), (438, 55351), (443, 55363), (471, 55417), (531, 55468), (550, 55504), (577, 55531), (586, 55558), (603, 55600), (677, 55717), (728, 55795), (755, 55813), (783, 55864), (796, 55897), (806, 55930), (852, 55987), (866, 56014), (882, 56056), (909, 56113), (921, 56137), (939, 56167), (948, 56185), (963, 56212), (1006, 56314), (1020, 56341), (1024, 56353), (1062, 56422), (1065, 56431), (1082, 56461), (1086, 56467), (1109, 56503), (1122, 56518), (1132, 56533), (1147, 56554),

Gene: Salk_74 Start: 46139, Stop: 47368, Start Num: 295

Candidate Starts for Salk_74:

(Start: 295 @46139 has 213 MA's), (388, 46310), (455, 46442), (578, 46577), (587, 46607), (614, 46664), (677, 46769), (680, 46775), (698, 46808), (781, 46913), (993, 47093), (1107, 47306), (1140, 47351),

Gene: Salvus_51 Start: 39283, Stop: 37772, Start Num: 250

Candidate Starts for Salvus_51:

(Start: 250 @39283 has 2 MA's), (279, 39247), (329, 39157), (330, 39154), (355, 39106), (394, 39037), (453, 38929), (578, 38794), (596, 38743), (599, 38737), (602, 38731), (615, 38707), (649, 38653), (772, 38512), (773, 38509), (793, 38452), (796, 38443), (815, 38380), (817, 38377), (940, 38182), (964, 38137), (1009, 38032), (1036, 37972), (1047, 37957), (1131, 37804), (1146, 37783),

Gene: Sam12_58 Start: 51466, Stop: 49934, Start Num: 306

Candidate Starts for Sam12_58:

(177, 51721), (201, 51670), (220, 51619), (248, 51565), (265, 51535), (Start: 290 @51502 has 3 MA's), (Start: 295 @51493 has 213 MA's), (Start: 306 @51466 has 28 MA's), (Start: 395 @51298 has 1 MA's), (416, 51256), (443, 51208), (449, 51196), (453, 51184), (455, 51178), (464, 51157), (479, 51130), (525, 50989), (580, 50902), (583, 50887), (587, 50875), (601, 50845), (622, 50794), (634,

50767), (665, 50716), (690, 50674), (698, 50656), (700, 50653), (714, 50626), (747, 50584), (776, 50539), (857, 50404), (865, 50389), (883, 50368), (937, 50311), (951, 50287), (953, 50284), (982, 50227), (985, 50221), (988, 50215), (990, 50209), (1016, 50158), (1025, 50134), (1048, 50095), (1055, 50083), (1057, 50080), (1099, 49987), (1109, 49972), (1125, 49951),

Gene: SamW_45 Start: 36746, Stop: 38122, Start Num: 342

Candidate Starts for SamW_45:

(Start: 342 @36746 has 7 MA's), (Start: 387 @36815 has 1 MA's), (394, 36833), (444, 36926), (471, 36986), (500, 36992), (502, 36995), (574, 37115), (582, 37133), (642, 37250), (755, 37388), (780, 37427), (793, 37460), (795, 37466), (800, 37481), (811, 37520), (864, 37580), (875, 37604), (897, 37640), (940, 37709), (944, 37715), (982, 37796), (1026, 37892), (1033, 37904), (1039, 37916), (1064, 37973), (1067, 37979), (1073, 37991), (1091, 38021), (1125, 38072),

Gene: Sampudon_60 Start: 41637, Stop: 43553, Start Num: 55

Candidate Starts for Sampudon_60:

(Start: 55 @41637 has 13 MA's), (Start: 58 @41640 has 23 MA's), (Start: 76 @41652 has 2 MA's), (Start: 89 @41700 has 2 MA's), (125, 41802), (155, 41892), (172, 41919), (175, 41928), (219, 42000), (Start: 297 @42120 has 15 MA's), (331, 42183), (Start: 387 @42273 has 1 MA's), (401, 42300), (509, 42429), (519, 42453), (542, 42495), (577, 42543), (583, 42564), (590, 42585), (620, 42642), (652, 42696), (679, 42738), (716, 42798), (788, 42894), (790, 42897), (915, 43074), (951, 43125), (991, 43212), (992, 43215), (1009, 43251), (1012, 43257), (1037, 43311), (1059, 43350), (1112, 43452), (1123, 43467), (1137, 43488),

Gene: Sangak_53 Start: 37060, Stop: 38238, Start Num: 297

Candidate Starts for Sangak_53:

(Start: 297 @37060 has 15 MA's), (312, 37093), (Start: 318 @37102 has 13 MA's), (347, 37159), (399, 37201), (426, 37252), (519, 37381), (587, 37471), (590, 37480), (614, 37528), (622, 37540), (677, 37633), (690, 37654), (701, 37678), (713, 37693), (765, 37747), (773, 37756), (781, 37777), (782, 37780), (784, 37786), (795, 37819), (978, 37921), (1013, 37984), (1018, 37993), (1047, 38050), (1057, 38068), (1086, 38134), (1098, 38155), (1141, 38215),

Gene: Sansa_39 Start: 31177, Stop: 29765, Start Num: 327

Candidate Starts for Sansa_39:

(Start: 327 @31177 has 23 MA's), (339, 31147), (Start: 343 @31141 has 1 MA's), (364, 31108), (471, 30916), (511, 30889), (547, 30829), (572, 30802), (577, 30799), (590, 30757), (622, 30703), (644, 30661), (727, 30547), (781, 30490), (790, 30469), (797, 30454), (801, 30442), (805, 30430), (806, 30427), (811, 30409), (857, 30328), (874, 30292), (903, 30238), (925, 30196), (940, 30166), (948, 30151), (953, 30142), (957, 30136), (977, 30094), (1009, 30025), (1020, 30001), (1023, 29995), (1024, 29989), (1031, 29977), (1082, 29872), (1093, 29854), (1099, 29842), (1131, 29797),

Gene: Sapo_34 Start: 32116, Stop: 30710, Start Num: 302

Candidate Starts for Sapo_34:

(180, 32353), (181, 32350), (228, 32239), (237, 32224), (Start: 302 @32116 has 13 MA's), (339, 32038), (355, 32011), (381, 31981), (383, 31978), (519, 31771), (540, 31738), (651, 31531), (761, 31384), (773, 31369), (863, 31228), (963, 31093), (976, 31063), (977, 31060), (1009, 30991), (1010, 30988), (1020, 30967), (1036, 30931), (1038, 30928), (1075, 30841), (1082, 30829), (1140, 30742),

Gene: Saradis_80 Start: 48976, Stop: 47453, Start Num: 292

Candidate Starts for Saradis_80:

(Start: 292 @48976 has 28 MA's), (347, 48865), (374, 48826), (383, 48817), (429, 48721), (451, 48679), (457, 48661), (511, 48607), (535, 48562), (537, 48559), (592, 48457), (661, 48334), (683, 48298), (707, 48259), (767, 48193), (781, 48166), (787, 48148), (798, 48118), (819, 48058), (840, 48028), (848, 48016), (850, 48010), (1010, 47701), (1019, 47683), (1037, 47641), (1042, 47635),

(1053, 47617), (1054, 47614), (1124, 47488),

Gene: Saratos_40 Start: 30928, Stop: 29516, Start Num: 327

Candidate Starts for Saratos_40:

(Start: 323 @30931 has 8 MA's), (Start: 327 @30928 has 23 MA's), (339, 30898), (Start: 343 @30892 has 1 MA's), (364, 30859), (471, 30667), (511, 30640), (547, 30580), (572, 30553), (577, 30550), (580, 30544), (590, 30508), (602, 30484), (622, 30454), (644, 30412), (727, 30298), (781, 30241), (790, 30220), (797, 30205), (801, 30193), (805, 30181), (806, 30178), (811, 30160), (857, 30079), (874, 30043), (903, 29989), (925, 29947), (940, 29917), (948, 29902), (953, 29893), (957, 29887), (977, 29845), (1009, 29776), (1020, 29752), (1023, 29746), (1024, 29740), (1031, 29728), (1082, 29623), (1093, 29605), (1099, 29593), (1131, 29548),

Gene: Sarkar_124 Start: 82180, Stop: 80537, Start Num: 255

Candidate Starts for Sarkar_124:

(Start: 255 @82180 has 9 MA's), (271, 82156), (332, 82048), (393, 81943), (413, 81904), (443, 81853), (510, 81760), (540, 81700), (558, 81676), (561, 81673), (578, 81646), (618, 81553), (712, 81400), (729, 81376), (731, 81373), (763, 81340), (773, 81328), (798, 81256), (830, 81178), (856, 81133), (925, 80986), (946, 80941), (962, 80911), (974, 80881), (979, 80869), (1009, 80803), (1056, 80713), (1057, 80710), (1105, 80614), (1110, 80608), (1129, 80581),

Gene: SassyC_75 Start: 51233, Stop: 49344, Start Num: 61

Candidate Starts for SassyC_75:

(Start: 61 @51233 has 8 MA's), (93, 51155), (97, 51146), (127, 51062), (137, 51041), (161, 50978), (196, 50909), (199, 50903), (219, 50879), (335, 50681), (Start: 387 @50597 has 1 MA's), (388, 50594), (402, 50564), (415, 50537), (462, 50456), (577, 50303), (595, 50252), (624, 50192), (687, 50105), (688, 50102), (788, 49997), (792, 49988), (796, 49976), (865, 49877), (904, 49838), (958, 49748), (971, 49721), (973, 49715), (1010, 49631), (1037, 49571), (1044, 49562), (1053, 49547), (1068, 49505), (1078, 49487), (1112, 49433), (1135, 49400), (1149, 49379), (1163, 49361),

Gene: Satis_124 Start: 82176, Stop: 80533, Start Num: 255

Candidate Starts for Satis_124:

(Start: 255 @82176 has 9 MA's), (271, 82152), (332, 82044), (393, 81939), (413, 81900), (443, 81849), (510, 81756), (540, 81696), (558, 81672), (561, 81669), (578, 81642), (618, 81549), (712, 81396), (729, 81372), (731, 81369), (763, 81336), (773, 81324), (798, 81252), (830, 81174), (856, 81129), (925, 80982), (946, 80937), (962, 80907), (974, 80877), (979, 80865), (1009, 80799), (1056, 80709), (1057, 80706), (1105, 80610), (1110, 80604), (1129, 80577),

Gene: Savage2526_29 Start: 22151, Stop: 23551, Start Num: 295

Candidate Starts for Savage2526_29:

(Start: 295 @22151 has 213 MA's), (328, 22214), (Start: 387 @22319 has 1 MA's), (388, 22322), (429, 22406), (452, 22439), (509, 22490), (512, 22496), (575, 22577), (577, 22580), (580, 22586), (590, 22622), (599, 22640), (601, 22643), (620, 22697), (650, 22748), (704, 22829), (719, 22856), (754, 22886), (761, 22895), (777, 22922), (788, 22955), (794, 22970), (817, 23024), (860, 23045), (865, 23057), (904, 23069), (1012, 23291), (1017, 23300), (1019, 23306), (1034, 23342), (1063, 23402), (1072, 23429), (1140, 23519),

Gene: Scap1_51 Start: 36879, Stop: 38060, Start Num: 297

Candidate Starts for Scap1_51:

(Start: 297 @36879 has 15 MA's), (312, 36912), (Start: 318 @36921 has 13 MA's), (347, 36978), (426, 37071), (519, 37200), (587, 37290), (590, 37299), (614, 37347), (622, 37359), (677, 37452), (682, 37461), (691, 37476), (701, 37497), (781, 37596), (795, 37638), (1013, 37806), (1018, 37815), (1057, 37890), (1086, 37956), (1089, 37962), (1098, 37977), (1105, 37989), (1107, 37992),

Gene: Scavito_91 Start: 58866, Stop: 60611, Start Num: 158

Candidate Starts for Scavito_91:

(Start: 158 @58866 has 18 MA's), (168, 58887), (205, 58965), (214, 58989), (236, 59034), (251, 59058), (Start: 278 @59097 has 3 MA's), (366, 59256), (Start: 375 @59265 has 28 MA's), (394, 59307), (405, 59328), (430, 59361), (435, 59367), (438, 59370), (444, 59385), (452, 59400), (527, 59487), (534, 59499), (538, 59505), (563, 59541), (578, 59565), (582, 59577), (652, 59709), (710, 59793), (724, 59814), (741, 59826), (759, 59841), (761, 59844), (777, 59868), (787, 59892), (793, 59904), (812, 59961), (856, 60006), (885, 60072), (893, 60084), (898, 60093), (907, 60117), (909, 60120), (928, 60156), (932, 60162), (940, 60186), (980, 60267), (981, 60273), (989, 60291), (998, 60318), (1002, 60324), (1019, 60354), (1021, 60360), (1053, 60420), (1073, 60471), (1076, 60477), (1099, 60516),

Gene: Schimmels22_39 Start: 29851, Stop: 28466, Start Num: 319

Candidate Starts for Schimmels22_39:

(Start: 319 @29851 has 153 MA's), (471, 29575), (508, 29554), (572, 29461), (577, 29458), (583, 29437), (590, 29416), (644, 29320), (781, 29149), (791, 29125), (797, 29113), (801, 29101), (805, 29089), (806, 29086), (811, 29068), (817, 29053), (860, 29026), (874, 28993), (883, 28969), (927, 28897), (940, 28867), (960, 28834), (1009, 28726), (1013, 28717), (1020, 28702), (1023, 28696), (1024, 28690), (1031, 28678), (1077, 28582), (1082, 28573), (1099, 28543), (1128, 28501),

Gene: Schnapsidee_40 Start: 31262, Stop: 29871, Start Num: 319

Candidate Starts for Schnapsidee_40:

(Start: 242 @31364 has 2 MA's), (Start: 243 @31361 has 1 MA's), (245, 31358), (Start: 319 @31262 has 153 MA's), (405, 31115), (Start: 408 @31109 has 1 MA's), (410, 31106), (471, 30992), (511, 30965), (547, 30905), (572, 30878), (577, 30875), (622, 30779), (644, 30737), (781, 30566), (790, 30545), (801, 30518), (874, 30410), (927, 30314), (982, 30197), (991, 30179), (1023, 30113), (1024, 30107), (1031, 30095), (1077, 29999), (1109, 29945), (1112, 29942), (1128, 29918), (1151, 29888),

Gene: Schubert_39 Start: 30441, Stop: 29047, Start Num: 322

Candidate Starts for Schubert_39:

(Start: 322 @30441 has 4 MA's), (405, 30297), (Start: 408 @30291 has 1 MA's), (410, 30288), (411, 30285), (511, 30147), (547, 30087), (577, 30057), (622, 29961), (644, 29919), (724, 29808), (781, 29748), (797, 29712), (801, 29700), (820, 29649), (823, 29643), (874, 29592), (878, 29580), (919, 29508), (925, 29496), (960, 29433), (1009, 29325), (1020, 29301), (1023, 29295), (1024, 29289), (1031, 29277), (1055, 29235), (1093, 29154), (1099, 29142), (1131, 29097),

Gene: Schwartz33_83 Start: 53395, Stop: 54612, Start Num: 295

Candidate Starts for Schwartz33_83:

(Start: 295 @53395 has 213 MA's), (328, 53458), (333, 53470), (349, 53500), (358, 53518), (359, 53521), (392, 53563), (433, 53638), (452, 53677), (518, 53755), (519, 53758), (578, 53818), (604, 53884), (639, 53950), (650, 53968), (673, 54004), (677, 54010), (682, 54019), (698, 54049), (711, 54067), (715, 54073), (717, 54076), (725, 54088), (773, 54133), (776, 54142), (779, 54151), (781, 54154), (784, 54163), (795, 54196), (798, 54205), (799, 54208), (807, 54232), (814, 54256), (910, 54301), (1018, 54373), (1029, 54400), (1068, 54481), (1079, 54502), (1086, 54514), (1115, 54559),

Gene: ScienceWizSam_73 Start: 48083, Stop: 49315, Start Num: 294

Candidate Starts for ScienceWizSam_73:

(Start: 294 @48083 has 45 MA's), (299, 48092), (Start: 318 @48131 has 13 MA's), (388, 48257), (455, 48389), (518, 48461), (578, 48524), (587, 48554), (622, 48623), (677, 48716), (680, 48722), (700, 48758), (781, 48860), (1013, 49067), (1036, 49118), (1057, 49151), (1060, 49163), (1061, 49166), (1096, 49235), (1107, 49253),

Gene: Scissor2024_40 Start: 29498, Stop: 28113, Start Num: 319

Candidate Starts for Scissor2024_40:

(Start: 319 @29498 has 153 MA's), (443, 29285), (471, 29222), (508, 29201), (572, 29108), (577, 29105), (583, 29084), (590, 29063), (644, 28967), (781, 28796), (791, 28772), (797, 28760), (801, 28748), (805, 28736), (806, 28733), (811, 28715), (817, 28700), (860, 28673), (874, 28640), (878, 28628), (883, 28616), (927, 28544), (948, 28499), (960, 28481), (1009, 28373), (1013, 28364), (1020, 28349), (1023, 28343), (1024, 28337), (1077, 28229), (1082, 28220), (1099, 28190), (1128, 28148),

Gene: Scuba_83 Start: 56215, Stop: 54161, Start Num: 35

Candidate Starts for Scuba_83:

(7, 56488), (Start: 35 @56215 has 35 MA's), (92, 56062), (105, 56047), (129, 55966), (182, 55843), (198, 55813), (269, 55705), (Start: 297 @55672 has 15 MA's), (325, 55621), (341, 55588), (394, 55498), (412, 55465), (441, 55435), (553, 55279), (583, 55228), (627, 55132), (645, 55099), (670, 55063), (688, 55036), (777, 54913), (805, 54844), (810, 54826), (814, 54814), (921, 54652), (942, 54613), (956, 54583), (965, 54568), (1009, 54466), (1040, 54403), (1078, 54322), (1093, 54298), (1133, 54238),

Gene: Scuttle_29 Start: 22156, Stop: 23556, Start Num: 295

Candidate Starts for Scuttle_29:

(Start: 295 @22156 has 213 MA's), (328, 22219), (Start: 387 @22324 has 1 MA's), (388, 22327), (429, 22411), (452, 22444), (509, 22495), (512, 22501), (575, 22582), (577, 22585), (580, 22591), (590, 22627), (599, 22645), (601, 22648), (610, 22681), (620, 22702), (650, 22753), (704, 22834), (719, 22861), (761, 22900), (777, 22927), (788, 22960), (794, 22975), (817, 23029), (860, 23050), (865, 23062), (904, 23074), (963, 23188), (1012, 23296), (1017, 23305), (1019, 23311), (1034, 23347), (1063, 23407), (1072, 23434), (1140, 23524),

Gene: Secretariat_79 Start: 51679, Stop: 52899, Start Num: 295

Candidate Starts for Secretariat_79:

(Start: 295 @51679 has 213 MA's), (299, 51685), (329, 51745), (333, 51754), (347, 51781), (349, 51784), (358, 51802), (359, 51805), (392, 51847), (433, 51922), (452, 51961), (509, 52018), (518, 52039), (519, 52042), (578, 52102), (639, 52234), (671, 52285), (673, 52288), (677, 52294), (682, 52303), (715, 52357), (717, 52360), (722, 52369), (725, 52372), (773, 52417), (776, 52426), (779, 52435), (781, 52438), (784, 52447), (805, 52513), (807, 52519), (814, 52543), (910, 52588), (992, 52621), (1012, 52648), (1013, 52651), (1018, 52660), (1029, 52687), (1079, 52789), (1086, 52801), (1115, 52846), (1142, 52885),

Gene: Sedgewig_40 Start: 30801, Stop: 29413, Start Num: 319

Candidate Starts for Sedgewig_40:

(39, 31452), (163, 31098), (197, 31023), (Start: 319 @30801 has 153 MA's), (405, 30657), (Start: 408 @30651 has 1 MA's), (410, 30648), (465, 30543), (471, 30534), (511, 30507), (547, 30447), (572, 30420), (577, 30417), (622, 30321), (644, 30279), (781, 30108), (790, 30087), (797, 30072), (817, 30012), (874, 29952), (927, 29856), (960, 29793), (982, 29739), (1023, 29655), (1024, 29649), (1031, 29637), (1109, 29487), (1112, 29484), (1128, 29460),

Gene: Send513_66 Start: 47939, Stop: 49699, Start Num: 183

Candidate Starts for Send513_66:

(Start: 183 @47939 has 10 MA's), (226, 48008), (Start: 294 @48104 has 45 MA's), (299, 48113), (Start: 342 @48194 has 7 MA's), (373, 48239), (509, 48440), (534, 48488), (573, 48548), (580, 48560), (605, 48626), (672, 48749), (688, 48773), (700, 48797), (777, 49001), (788, 49034), (794, 49049), (810, 49088), (811, 49091), (814, 49100), (865, 49169), (965, 49301), (1009, 49424), (1010, 49427), (1023, 49454), (1037, 49484), (1042, 49490), (1044, 49493), (1054, 49511), (1059, 49523), (1137, 49658), (1159, 49688),

Gene: SendItCS_81 Start: 49793, Stop: 50983, Start Num: 295

Candidate Starts for SendItCS_81:

(Start: 295 @49793 has 213 MA's), (349, 49898), (413, 49967), (519, 50120), (536, 50138), (594, 50225), (622, 50279), (677, 50372), (693, 50399), (784, 50525), (805, 50588), (814, 50618), (824, 50636), (1047, 50783), (1077, 50852), (1086, 50867), (1095, 50882), (1105, 50900), (1107, 50903), (1115, 50912),

Gene: Serenabeen_73 Start: 45996, Stop: 47252, Start Num: 295

Candidate Starts for Serenabeen_73:

(Start: 295 @45996 has 213 MA's), (Start: 327 @46056 has 23 MA's), (328, 46059), (333, 46071), (347, 46098), (370, 46134), (519, 46371), (580, 46434), (587, 46461), (645, 46575), (655, 46587), (673, 46617), (677, 46623), (722, 46698), (776, 46755), (785, 46779), (796, 46812), (799, 46821), (817, 46875), (1036, 47025), (1038, 47028), (1047, 47040), (1068, 47091),

Gene: Sergei_26 Start: 21732, Stop: 23129, Start Num: 295

Candidate Starts for Sergei_26:

(Start: 295 @21732 has 213 MA's), (328, 21792), (379, 21879), (Start: 387 @21897 has 1 MA's), (388, 21900), (429, 21984), (433, 21990), (452, 22017), (509, 22068), (512, 22074), (540, 22125), (547, 22134), (575, 22155), (580, 22164), (590, 22200), (601, 22221), (610, 22254), (620, 22275), (627, 22293), (630, 22299), (650, 22326), (660, 22338), (667, 22353), (704, 22407), (742, 22458), (754, 22464), (761, 22473), (764, 22479), (777, 22500), (788, 22533), (794, 22548), (797, 22557), (924, 22680), (942, 22719), (953, 22743), (961, 22755), (1009, 22863), (1012, 22869), (1017, 22878), (1019, 22884), (1034, 22920), (1072, 23007), (1140, 23097), (1156, 23121),

Gene: ShaggyRogers_85 Start: 54047, Stop: 55261, Start Num: 295

Candidate Starts for ShaggyRogers_85:

(Start: 295 @54047 has 213 MA's), (299, 54053), (Start: 327 @54107 has 23 MA's), (328, 54110), (333, 54122), (358, 54170), (359, 54173), (392, 54215), (413, 54257), (433, 54290), (452, 54329), (518, 54407), (578, 54470), (639, 54602), (671, 54653), (677, 54662), (698, 54701), (717, 54728), (725, 54740), (760, 54767), (765, 54776), (776, 54794), (779, 54803), (781, 54806), (784, 54815), (799, 54860), (807, 54884), (814, 54908), (1009, 55007), (1012, 55013), (1018, 55025), (1087, 55169), (1096, 55184), (1138, 55244),

Gene: ShaiHulud_41 Start: 31118, Stop: 29730, Start Num: 319

Candidate Starts for ShaiHulud_41:

(39, 31769), (163, 31415), (197, 31340), (Start: 319 @31118 has 153 MA's), (405, 30974), (Start: 408 @30968 has 1 MA's), (410, 30965), (471, 30851), (511, 30824), (547, 30764), (572, 30737), (577, 30734), (622, 30638), (644, 30596), (781, 30425), (790, 30404), (801, 30377), (817, 30329), (874, 30269), (960, 30110), (982, 30056), (1023, 29972), (1024, 29966), (1031, 29954), (1077, 29858), (1109, 29804), (1112, 29801), (1128, 29777),

Gene: ShakeNBake_70 Start: 50183, Stop: 48297, Start Num: 61

Candidate Starts for ShakeNBake_70:

(Start: 38 @50243 has 1 MA's), (Start: 61 @50183 has 8 MA's), (73, 50168), (93, 50105), (97, 50096), (106, 50084), (137, 49991), (161, 49928), (170, 49910), (199, 49853), (219, 49829), (312, 49670), (335, 49631), (339, 49622), (402, 49514), (462, 49406), (542, 49301), (595, 49202), (624, 49142), (687, 49055), (688, 49052), (788, 48947), (792, 48938), (796, 48926), (865, 48827), (904, 48788), (951, 48710), (958, 48698), (971, 48671), (1010, 48581), (1018, 48566), (1044, 48512), (1068, 48455), (1149, 48329),

Gene: Shamu_41 Start: 31107, Stop: 29695, Start Num: 327

Candidate Starts for Shamu_41:

(Start: 323 @31110 has 8 MA's), (Start: 327 @31107 has 23 MA's), (339, 31077), (Start: 343 @31071 has 1 MA's), (364, 31038), (471, 30846), (511, 30819), (547, 30759), (572, 30732), (577, 30729), (590,

30687), (602, 30663), (622, 30633), (644, 30591), (727, 30477), (781, 30420), (790, 30399), (797, 30384), (801, 30372), (805, 30360), (806, 30357), (811, 30339), (857, 30258), (874, 30222), (903, 30168), (925, 30126), (940, 30096), (953, 30072), (957, 30066), (977, 30024), (1009, 29955), (1020, 29931), (1023, 29925), (1024, 29919), (1031, 29907), (1077, 29811), (1082, 29802), (1093, 29784), (1099, 29772), (1131, 29727),

Gene: SheRa_54 Start: 37437, Stop: 38609, Start Num: 297

Candidate Starts for SheRa_54:

(Start: 297 @37437 has 15 MA's), (312, 37470), (Start: 318 @37479 has 13 MA's), (347, 37536), (426, 37629), (433, 37641), (519, 37758), (587, 37848), (614, 37905), (622, 37917), (673, 38004), (677, 38010), (690, 38031), (701, 38055), (713, 38070), (765, 38124), (773, 38133), (781, 38154), (782, 38157), (795, 38196), (1013, 38355), (1047, 38421), (1057, 38439), (1086, 38505), (1089, 38511), (1098, 38526),

Gene: SheckWes_60 Start: 40367, Stop: 38889, Start Num: 277

Candidate Starts for SheckWes_60:

(217, 40448), (Start: 250 @40394 has 2 MA's), (Start: 277 @40367 has 49 MA's), (312, 40304), (328, 40283), (330, 40277), (Start: 343 @40250 has 1 MA's), (379, 40196), (388, 40175), (394, 40160), (401, 40145), (448, 40064), (456, 40040), (532, 39953), (577, 39917), (596, 39863), (599, 39857), (602, 39851), (649, 39773), (661, 39758), (724, 39668), (740, 39659), (772, 39632), (794, 39569), (797, 39560), (801, 39548), (808, 39527), (812, 39512), (815, 39503), (830, 39482), (867, 39443), (870, 39434), (877, 39419), (903, 39377), (919, 39347), (940, 39299), (942, 39296), (964, 39254), (971, 39236), (1013, 39140), (1036, 39089), (1055, 39059), (1066, 39026), (1097, 38969), (1106, 38954),

Gene: Shee_41 Start: 31111, Stop: 29723, Start Num: 319

Candidate Starts for Shee_41:

(39, 31762), (163, 31408), (197, 31333), (Start: 319 @31111 has 153 MA's), (405, 30967), (Start: 408 @30961 has 1 MA's), (410, 30958), (471, 30844), (511, 30817), (547, 30757), (572, 30730), (577, 30727), (622, 30631), (644, 30589), (777, 30427), (781, 30418), (790, 30397), (797, 30382), (801, 30370), (817, 30322), (874, 30262), (927, 30166), (960, 30103), (982, 30049), (1023, 29965), (1024, 29959), (1031, 29947), (1077, 29851), (1109, 29797), (1112, 29794), (1128, 29770),

Gene: Shelley_57 Start: 52086, Stop: 50674, Start Num: 375

Candidate Starts for Shelley_57:

(177, 52434), (233, 52305), (Start: 290 @52215 has 3 MA's), (Start: 375 @52086 has 28 MA's), (Start: 395 @52041 has 1 MA's), (443, 51951), (444, 51948), (448, 51942), (455, 51921), (483, 51858), (503, 51780), (516, 51750), (525, 51732), (580, 51645), (583, 51630), (601, 51588), (635, 51507), (665, 51459), (690, 51417), (698, 51399), (700, 51396), (714, 51369), (758, 51318), (776, 51282), (794, 51231), (857, 51147), (867, 51126), (982, 50970), (985, 50964), (990, 50952), (1055, 50826), (1109, 50712),

Gene: Shepard_78 Start: 48110, Stop: 49297, Start Num: 318

Candidate Starts for Shepard_78:

(Start: 294 @48065 has 45 MA's), (Start: 297 @48071 has 15 MA's), (Start: 302 @48077 has 13 MA's), (Start: 318 @48110 has 13 MA's), (388, 48236), (455, 48368), (518, 48440), (578, 48503), (587, 48533), (677, 48695), (680, 48701), (700, 48737), (722, 48770), (781, 48839), (1036, 49100), (1057, 49133), (1060, 49145), (1096, 49217),

Gene: Shiba_73 Start: 45848, Stop: 47077, Start Num: 295

Candidate Starts for Shiba_73:

(Start: 295 @45848 has 213 MA's), (388, 46019), (455, 46151), (578, 46286), (587, 46316), (614, 46373), (677, 46478), (680, 46484), (698, 46517), (781, 46622), (993, 46802), (1107, 47015), (1140, 47060),

Gene: Shocker_54 Start: 41341, Stop: 39593, Start Num: 396

Candidate Starts for Shocker_54:

(188, 41743), (190, 41740), (334, 41455), (Start: 396 @41341 has 1 MA's), (495, 41068), (551, 40945), (567, 40927), (577, 40906), (588, 40867), (598, 40843), (606, 40825), (622, 40783), (623, 40780), (700, 40630), (718, 40597), (721, 40591), (748, 40522), (779, 40420), (793, 40381), (830, 40288), (844, 40267), (860, 40237), (863, 40231), (896, 40150), (916, 40108), (942, 40051), (958, 40018), (986, 39952), (1009, 39892), (1010, 39889), (1013, 39883), (1079, 39742), (1093, 39718), (1096, 39712), (1099, 39706), (1112, 39688), (1121, 39676), (1137, 39652), (1155, 39625),

Gene: Shrew_71 Start: 40994, Stop: 42517, Start Num: 280

Candidate Starts for Shrew_71:

(249, 40949), (254, 40955), (Start: 280 @40994 has 11 MA's), (Start: 303 @41036 has 4 MA's), (310, 41054), (330, 41087), (356, 41138), (381, 41171), (391, 41198), (405, 41225), (454, 41315), (596, 41531), (597, 41534), (615, 41567), (627, 41585), (684, 41660), (708, 41699), (712, 41705), (811, 41873), (815, 41885), (907, 42023), (933, 42071), (1106, 42440), (1109, 42443), (1128, 42470), (1133, 42476),

Gene: Shroomer_89 Start: 50030, Stop: 48510, Start Num: 292

Candidate Starts for Shroomer_89:

(265, 50063), (Start: 292 @50030 has 28 MA's), (Start: 315 @49979 has 2 MA's), (383, 49871), (412, 49805), (449, 49739), (535, 49616), (541, 49601), (578, 49544), (590, 49511), (592, 49508), (623, 49445), (653, 49394), (661, 49385), (665, 49376), (668, 49370), (686, 49346), (697, 49322), (723, 49283), (745, 49268), (781, 49217), (787, 49199), (821, 49106), (840, 49079), (865, 49034), (962, 48848), (1019, 48740), (1032, 48710), (1057, 48665), (1120, 48551),

Gene: Shrooms_93 Start: 54534, Stop: 56189, Start Num: 185

Candidate Starts for Shrooms_93:

(Start: 185 @54534 has 9 MA's), (216, 54597), (219, 54606), (228, 54627), (263, 54690), (344, 54828), (361, 54858), (421, 54951), (443, 54987), (471, 55041), (531, 55092), (543, 55116), (550, 55128), (577, 55155), (583, 55176), (586, 55182), (603, 55224), (677, 55341), (728, 55419), (755, 55437), (783, 55488), (796, 55521), (806, 55554), (832, 55602), (866, 55638), (882, 55680), (939, 55791), (948, 55809), (963, 55836), (975, 55863), (1020, 55965), (1062, 56046), (1065, 56055), (1067, 56058), (1082, 56085), (1086, 56091), (1109, 56127), (1122, 56142), (1147, 56178),

Gene: Shynx_42 Start: 31327, Stop: 32721, Start Num: 302

Candidate Starts for Shynx_42:

(Start: 302 @31327 has 13 MA's), (Start: 303 @31330 has 4 MA's), (339, 31405), (353, 31429), (381, 31459), (Start: 387 @31474 has 1 MA's), (440, 31564), (459, 31600), (547, 31699), (554, 31708), (596, 31777), (651, 31900), (740, 32035), (764, 32062), (777, 32083), (785, 32104), (808, 32161), (821, 32194), (827, 32203), (912, 32245), (942, 32311), (953, 32335), (963, 32353), (971, 32371), (992, 32425), (1009, 32455), (1034, 32512), (1036, 32515), (1061, 32563), (1074, 32602), (1082, 32617), (1138, 32686), (1150, 32704), (1156, 32713),

Gene: Sienna_50 Start: 36692, Stop: 38746, Start Num: 74

Candidate Starts for Sienna_50:

(Start: 74 @36692 has 16 MA's), (82, 36716), (106, 36779), (131, 36863), (144, 36905), (266, 37127), (Start: 297 @37163 has 15 MA's), (337, 37238), (359, 37277), (Start: 395 @37319 has 1 MA's), (405, 37337), (414, 37358), (421, 37370), (456, 37430), (468, 37445), (509, 37463), (548, 37541), (562, 37556), (564, 37559), (583, 37598), (590, 37619), (650, 37721), (688, 37778), (698, 37799), (700, 37802), (709, 37814), (736, 37862), (737, 37868), (749, 37916), (759, 37949), (770, 37973), (774, 37991), (785, 38021), (833, 38144), (856, 38177), (863, 38189), (876, 38204), (905, 38243), (939, 38288), (951, 38315), (990, 38399), (1018, 38462), (1037, 38504), (1044, 38513), (1049, 38522),

(1068, 38570), (1071, 38579), (1078, 38591), (1087, 38606), (1114, 38648),

Gene: SilentWarrior_40 Start: 25182, Stop: 27089, Start Num: 68

Candidate Starts for SilentWarrior_40:

(17, 25008), (Start: 68 @25182 has 36 MA's), (93, 25245), (106, 25266), (122, 25320), (176, 25455), (199, 25497), (229, 25542), (335, 25716), (339, 25725), (394, 25815), (415, 25857), (422, 25872), (543, 26058), (620, 26193), (624, 26205), (650, 26238), (777, 26367), (824, 26484), (993, 26757), (1010, 26796), (1037, 26856), (1080, 26946), (1097, 26976), (1126, 27018), (1163, 27069),

Gene: Sinatra_40 Start: 30565, Stop: 29183, Start Num: 323

Candidate Starts for Sinatra_40:

(Start: 305 @30592 has 1 MA's), (Start: 323 @30565 has 8 MA's), (Start: 327 @30562 has 23 MA's), (339, 30532), (405, 30424), (Start: 408 @30418 has 1 MA's), (410, 30415), (416, 30400), (547, 30214), (554, 30205), (577, 30184), (590, 30142), (622, 30088), (781, 29875), (790, 29854), (797, 29839), (801, 29827), (806, 29812), (820, 29776), (826, 29767), (857, 29752), (874, 29716), (927, 29617), (960, 29554), (972, 29527), (1005, 29452), (1009, 29446), (1013, 29437), (1020, 29422), (1023, 29416), (1024, 29410), (1031, 29398), (1093, 29275), (1099, 29263),

Gene: SirHarley_54 Start: 39905, Stop: 41848, Start Num: 65

Candidate Starts for SirHarley_54:

(40, 39842), (Start: 65 @39905 has 24 MA's), (80, 39932), (104, 40004), (121, 40058), (140, 40118), (151, 40145), (174, 40196), (193, 40238), (219, 40274), (269, 40361), (329, 40454), (335, 40469), (347, 40490), (414, 40592), (438, 40625), (450, 40649), (512, 40709), (562, 40796), (596, 40871), (652, 40961), (688, 41012), (690, 41015), (764, 41105), (777, 41123), (788, 41156), (814, 41222), (824, 41240), (865, 41303), (939, 41387), (992, 41504), (1009, 41552), (1040, 41615), (1078, 41699),

Gene: SirVictor_40 Start: 30629, Stop: 29241, Start Num: 327

Candidate Starts for SirVictor_40:

(Start: 323 @30632 has 8 MA's), (Start: 327 @30629 has 23 MA's), (339, 30599), (405, 30491), (410, 30482), (441, 30428), (508, 30347), (547, 30281), (577, 30251), (592, 30206), (622, 30155), (777, 29951), (781, 29942), (797, 29903), (801, 29891), (805, 29879), (806, 29876), (820, 29840), (826, 29831), (857, 29816), (874, 29780), (878, 29768), (883, 29756), (927, 29681), (960, 29621), (1009, 29513), (1013, 29504), (1020, 29489), (1023, 29483), (1024, 29477), (1152, 29255),

Gene: Sixama_168 Start: 96248, Stop: 94338, Start Num: 70

Candidate Starts for Sixama_168:

(Start: 70 @96248 has 5 MA's), (80, 96227), (82, 96218), (87, 96200), (102, 96155), (109, 96140), (118, 96116), (127, 96086), (165, 95996), (191, 95951), (198, 95939), (225, 95870), (299, 95753), (310, 95726), (444, 95597), (509, 95480), (533, 95432), (580, 95363), (665, 95201), (688, 95165), (693, 95156), (700, 95141), (709, 95129), (777, 95093), (788, 95060), (813, 94985), (819, 94973), (845, 94934), (880, 94883), (965, 94721), (1058, 94526), (1081, 94469), (1106, 94424),

Gene: SketchMex_53 Start: 38648, Stop: 37170, Start Num: 277

Candidate Starts for SketchMex_53:

(Start: 277 @38648 has 49 MA's), (328, 38561), (330, 38555), (356, 38504), (388, 38453), (394, 38438), (443, 38354), (453, 38330), (456, 38321), (577, 38198), (596, 38144), (599, 38138), (602, 38132), (649, 38054), (740, 37940), (772, 37913), (781, 37889), (808, 37808), (815, 37784), (830, 37763), (867, 37724), (875, 37706), (877, 37700), (939, 37589), (942, 37583), (964, 37541), (971, 37523), (1009, 37436), (1013, 37427), (1023, 37406), (1036, 37376), (1055, 37346), (1066, 37313), (1121, 37223),

Gene: Skysand_75 Start: 57318, Stop: 55261, Start Num: 35

Candidate Starts for Skysand_75:

(6, 57606), (10, 57498), (Start: 35 @57318 has 35 MA's), (182, 56943), (Start: 275 @56802 has 1 MA's), (Start: 306 @56751 has 28 MA's), (339, 56691), (341, 56688), (Start: 387 @56616 has 1 MA's), (394, 56598), (441, 56535), (443, 56529), (520, 56436), (542, 56397), (553, 56379), (573, 56355), (627, 56232), (645, 56199), (688, 56136), (777, 56013), (805, 55944), (810, 55926), (876, 55821), (921, 55752), (942, 55713), (953, 55689), (956, 55683), (981, 55626), (1009, 55566), (1023, 55536), (1040, 55503), (1133, 55338), (1163, 55296),

Gene: Sloopyjoe_74 Start: 46146, Stop: 47384, Start Num: 295

Candidate Starts for Sloopyjoe_74:

(Start: 295 @46146 has 213 MA's), (388, 46317), (455, 46449), (578, 46584), (587, 46614), (614, 46671), (677, 46776), (680, 46782), (698, 46815), (781, 46920), (996, 47109), (1107, 47322), (1140, 47367),

Gene: Snakehole_40 Start: 25114, Stop: 27021, Start Num: 68

Candidate Starts for Snakehole_40:

(Start: 68 @25114 has 36 MA's), (93, 25177), (106, 25198), (122, 25252), (199, 25429), (229, 25474), (335, 25648), (339, 25657), (394, 25747), (422, 25804), (543, 25990), (620, 26125), (624, 26137), (650, 26170), (777, 26299), (824, 26416), (1009, 26725), (1010, 26728), (1037, 26788), (1080, 26878), (1097, 26908), (1126, 26950), (1163, 27001),

Gene: Socotra_54 Start: 38839, Stop: 37361, Start Num: 277

Candidate Starts for Socotra_54:

(Start: 277 @38839 has 49 MA's), (328, 38752), (330, 38746), (379, 38665), (388, 38644), (454, 38518), (596, 38335), (599, 38329), (602, 38323), (649, 38245), (740, 38131), (772, 38104), (781, 38080), (801, 38020), (815, 37975), (830, 37954), (867, 37915), (875, 37897), (939, 37780), (964, 37732), (966, 37729), (971, 37714), (1013, 37618), (1023, 37597), (1036, 37567), (1146, 37378),

Gene: SoilGremlin_42 Start: 31117, Stop: 29729, Start Num: 319

Candidate Starts for SoilGremlin_42:

(197, 31339), (Start: 319 @31117 has 153 MA's), (405, 30973), (Start: 408 @30967 has 1 MA's), (410, 30964), (471, 30850), (511, 30823), (547, 30763), (572, 30736), (577, 30733), (580, 30727), (622, 30637), (644, 30595), (781, 30424), (797, 30388), (801, 30376), (811, 30343), (817, 30328), (874, 30268), (927, 30172), (960, 30109), (982, 30055), (1023, 29971), (1024, 29965), (1031, 29953), (1077, 29857), (1109, 29803), (1112, 29800), (1128, 29776),

Gene: SolidSnake_43 Start: 31120, Stop: 29732, Start Num: 319

Candidate Starts for SolidSnake_43:

(197, 31342), (Start: 319 @31120 has 153 MA's), (405, 30976), (Start: 408 @30970 has 1 MA's), (410, 30967), (471, 30853), (511, 30826), (547, 30766), (572, 30739), (577, 30736), (580, 30730), (622, 30640), (644, 30598), (781, 30427), (797, 30391), (801, 30379), (811, 30346), (817, 30331), (874, 30271), (927, 30175), (960, 30112), (982, 30058), (1023, 29974), (1024, 29968), (1031, 29956), (1077, 29860), (1109, 29806), (1112, 29803), (1128, 29779),

Gene: Solimine_81 Start: 49872, Stop: 48349, Start Num: 292

Candidate Starts for Solimine_81:

(159, 50133), (177, 50091), (Start: 292 @49872 has 28 MA's), (347, 49761), (374, 49722), (383, 49713), (429, 49617), (451, 49575), (457, 49557), (511, 49503), (535, 49458), (537, 49455), (592, 49353), (661, 49230), (683, 49194), (707, 49155), (767, 49089), (781, 49062), (787, 49044), (798, 49014), (819, 48954), (840, 48924), (848, 48912), (850, 48906), (1010, 48597), (1019, 48579), (1037, 48537), (1042, 48531), (1053, 48513), (1054, 48510), (1105, 48408), (1124, 48384),

Gene: Sombrero_60 Start: 52033, Stop: 50501, Start Num: 306

Candidate Starts for Sombrero_60:

(177, 52288), (201, 52237), (248, 52132), (265, 52102), (Start: 290 @52069 has 3 MA's), (Start: 295 @52060 has 213 MA's), (Start: 306 @52033 has 28 MA's), (Start: 395 @51865 has 1 MA's), (416, 51823), (443, 51775), (449, 51763), (453, 51751), (455, 51745), (464, 51724), (525, 51556), (580, 51469), (583, 51454), (587, 51442), (601, 51412), (622, 51361), (665, 51283), (679, 51259), (690, 51241), (698, 51223), (700, 51220), (705, 51211), (714, 51193), (776, 51106), (857, 50971), (865, 50956), (883, 50935), (951, 50854), (953, 50851), (982, 50794), (985, 50788), (990, 50776), (1016, 50725), (1025, 50701), (1048, 50662), (1055, 50650), (1057, 50647), (1099, 50554), (1109, 50539), (1125, 50518),

Gene: SonOfLevi_41 Start: 30834, Stop: 29413, Start Num: 319

Candidate Starts for SonOfLevi_41:

(197, 31056), (Start: 319 @30834 has 153 MA's), (405, 30690), (Start: 408 @30684 has 1 MA's), (410, 30681), (471, 30567), (511, 30540), (547, 30480), (572, 30453), (577, 30450), (622, 30354), (644, 30312), (777, 30150), (781, 30141), (790, 30120), (801, 30093), (811, 30060), (817, 30045), (866, 29970), (874, 29952), (927, 29856), (960, 29793), (982, 29739), (1023, 29655), (1024, 29649), (1031, 29637), (1066, 29562), (1077, 29541), (1109, 29487), (1112, 29484), (1128, 29460),

Gene: Sopespian_50 Start: 38728, Stop: 37250, Start Num: 277

Candidate Starts for Sopespian_50:

(Start: 277 @38728 has 49 MA's), (328, 38641), (330, 38635), (379, 38554), (388, 38533), (453, 38410), (454, 38407), (596, 38224), (599, 38218), (602, 38212), (649, 38134), (740, 38020), (772, 37993), (781, 37969), (801, 37909), (815, 37864), (830, 37843), (867, 37804), (875, 37786), (939, 37669), (964, 37621), (966, 37618), (971, 37603), (1013, 37507), (1023, 37486), (1036, 37456),

Gene: SorJuana_70 Start: 47020, Stop: 45626, Start Num: 317

Candidate Starts for SorJuana_70:

(Start: 317 @47020 has 13 MA's), (353, 46951), (399, 46876), (409, 46858), (425, 46828), (467, 46747), (582, 46597), (656, 46453), (679, 46414), (773, 46300), (809, 46249), (831, 46228), (850, 46198), (860, 46183), (865, 46171), (914, 46090), (936, 46042), (950, 46015), (962, 45994), (997, 45910), (1032, 45844), (1139, 45655), (1146, 45643),

Gene: Soror1_40 Start: 31284, Stop: 29893, Start Num: 319

Candidate Starts for Soror1_40:

(157, 31572), (167, 31551), (Start: 319 @31284 has 153 MA's), (405, 31137), (Start: 408 @31131 has 1 MA's), (410, 31128), (443, 31068), (471, 31014), (511, 30987), (547, 30927), (572, 30900), (577, 30897), (622, 30801), (644, 30759), (781, 30588), (790, 30567), (874, 30432), (927, 30336), (982, 30219), (991, 30201), (1023, 30135), (1024, 30129), (1031, 30117), (1077, 30021), (1109, 29967), (1112, 29964), (1128, 29940), (1151, 29910),

Gene: Soshi_80 Start: 49992, Stop: 51176, Start Num: 295

Candidate Starts for Soshi_80:

(Start: 295 @49992 has 213 MA's), (Start: 318 @50037 has 13 MA's), (333, 50067), (455, 50238), (587, 50412), (677, 50574), (698, 50613), (701, 50619), (720, 50646), (781, 50718), (799, 50772), (807, 50796), (814, 50820), (817, 50826), (909, 50850), (978, 50856), (1036, 50970), (1086, 51069), (1089, 51075), (1107, 51105), (1115, 51114), (1147, 51159),

Gene: Spain_74 Start: 46315, Stop: 47382, Start Num: 388

Candidate Starts for Spain_74:

(Start: 295 @46144 has 213 MA's), (388, 46315), (455, 46447), (578, 46582), (587, 46612), (614, 46669), (677, 46774), (680, 46780), (698, 46813), (781, 46918), (996, 47107), (1107, 47320), (1140, 47365),

Gene: Sparcetus_42 Start: 26604, Stop: 28538, Start Num: 72

Candidate Starts for Sparcetus_42:

(Start: 30 @26508 has 1 MA's), (66, 26598), (Start: 72 @26604 has 6 MA's), (122, 26751), (127, 26769), (199, 26928), (283, 27054), (335, 27144), (339, 27153), (394, 27243), (431, 27315), (519, 27447), (624, 27633), (637, 27651), (650, 27666), (688, 27723), (726, 27783), (798, 27855), (881, 27993), (926, 28059), (940, 28089), (942, 28092), (977, 28167), (1010, 28245), (1037, 28305), (1059, 28344), (1080, 28395), (1092, 28413), (1164, 28521),

Gene: Spectropatronm_80 Start: 49387, Stop: 50571, Start Num: 295

Candidate Starts for Spectropatronm_80:

(Start: 295 @49387 has 213 MA's), (Start: 318 @49432 has 13 MA's), (333, 49462), (455, 49633), (518, 49705), (547, 49744), (587, 49807), (677, 49969), (698, 50008), (701, 50014), (720, 50041), (781, 50113), (799, 50167), (807, 50191), (814, 50215), (817, 50221), (909, 50245), (978, 50251), (1036, 50365), (1086, 50464), (1089, 50470), (1107, 50500), (1115, 50509), (1153, 50563),

Gene: Sporto_73 Start: 47177, Stop: 48406, Start Num: 295

Candidate Starts for Sporto_73:

(Start: 295 @47177 has 213 MA's), (388, 47348), (455, 47480), (504, 47516), (519, 47555), (578, 47615), (587, 47645), (673, 47801), (677, 47807), (698, 47846), (781, 47951), (1086, 48308),

Gene: Sprinkle_75 Start: 46725, Stop: 47957, Start Num: 295

Candidate Starts for Sprinkle_75:

(Start: 295 @46725 has 213 MA's), (388, 46896), (504, 47064), (519, 47103), (578, 47163), (587, 47193), (677, 47355), (696, 47388), (700, 47397), (701, 47400), (781, 47499),

Gene: Squibbles_58 Start: 52329, Stop: 50797, Start Num: 306

Candidate Starts for Squibbles_58:

(177, 52584), (201, 52533), (220, 52482), (248, 52428), (265, 52398), (Start: 290 @52365 has 3 MA's), (Start: 295 @52356 has 213 MA's), (Start: 306 @52329 has 28 MA's), (Start: 395 @52161 has 1 MA's), (416, 52119), (443, 52071), (449, 52059), (453, 52047), (455, 52041), (464, 52020), (479, 51993), (525, 51852), (580, 51765), (583, 51750), (587, 51738), (601, 51708), (622, 51657), (634, 51630), (665, 51579), (690, 51537), (698, 51519), (700, 51516), (714, 51489), (747, 51447), (776, 51402), (857, 51267), (865, 51252), (883, 51231), (937, 51174), (953, 51147), (982, 51090), (985, 51084), (988, 51078), (990, 51072), (1016, 51021), (1025, 50997), (1048, 50958), (1055, 50946), (1057, 50943), (1099, 50850), (1109, 50835), (1125, 50814),

Gene: Srilaccoli3_51 Start: 49904, Stop: 48411, Start Num: 316

Candidate Starts for Srilaccoli3_51:

(Start: 316 @49904 has 5 MA's), (349, 49868), (368, 49835), (Start: 375 @49826 has 28 MA's), (381, 49817), (385, 49808), (388, 49799), (Start: 395 @49781 has 1 MA's), (432, 49721), (443, 49709), (448, 49700), (499, 49553), (536, 49472), (663, 49220), (665, 49217), (690, 49175), (700, 49154), (721, 49115), (731, 49103), (733, 49100), (768, 49070), (827, 48923), (881, 48887), (990, 48674), (1011, 48632), (1045, 48566), (1074, 48491), (1082, 48476),

Gene: StAB_50 Start: 39824, Stop: 41185, Start Num: 342

Candidate Starts for StAB_50:

(Start: 342 @39824 has 7 MA's), (Start: 387 @39893 has 1 MA's), (394, 39911), (444, 40004), (467, 40058), (471, 40064), (500, 40070), (502, 40073), (574, 40193), (582, 40211), (642, 40328), (755, 40466), (780, 40505), (793, 40538), (795, 40544), (800, 40559), (811, 40598), (864, 40658), (897, 40718), (944, 40793), (982, 40874), (1026, 40970), (1064, 41051), (1067, 41057), (1073, 41069), (1091, 41099),

Gene: Stanktossa_41 Start: 31114, Stop: 29726, Start Num: 319

Candidate Starts for Stanktossa_41:

(39, 31765), (163, 31411), (197, 31336), (Start: 319 @31114 has 153 MA's), (405, 30970), (Start: 408 @30964 has 1 MA's), (410, 30961), (471, 30847), (511, 30820), (547, 30760), (572, 30733), (577, 30730), (622, 30634), (644, 30592), (724, 30481), (781, 30421), (797, 30385), (801, 30373), (811, 30340), (817, 30325), (874, 30265), (927, 30169), (960, 30106), (982, 30052), (1023, 29968), (1024, 29962), (1031, 29950), (1077, 29854), (1109, 29800), (1112, 29797), (1128, 29773),

Gene: StarLord_74 Start: 46139, Stop: 47377, Start Num: 295

Candidate Starts for StarLord_74:

(Start: 295 @46139 has 213 MA's), (388, 46310), (455, 46442), (578, 46577), (587, 46607), (614, 46664), (677, 46769), (680, 46775), (698, 46808), (781, 46913), (996, 47102), (1107, 47315), (1140, 47360),

Gene: StarStruck_73 Start: 56760, Stop: 54685, Start Num: 35

Candidate Starts for StarStruck_73:

(Start: 35 @56760 has 35 MA's), (85, 56640), (Start: 98 @56595 has 1 MA's), (101, 56592), (198, 56349), (239, 56292), (269, 56241), (Start: 306 @56187 has 28 MA's), (341, 56124), (394, 56034), (Start: 395 @56031 has 1 MA's), (Start: 408 @56007 has 1 MA's), (441, 55971), (553, 55815), (573, 55791), (627, 55668), (688, 55557), (700, 55533), (777, 55434), (796, 55380), (819, 55326), (847, 55284), (876, 55245), (921, 55176), (939, 55143), (956, 55107), (977, 55062), (981, 55050), (1009, 54990), (1040, 54927), (1078, 54846), (1133, 54762),

Gene: Starburst_53 Start: 38723, Stop: 37245, Start Num: 277

Candidate Starts for Starburst_53:

(Start: 277 @38723 has 49 MA's), (328, 38636), (330, 38630), (379, 38549), (388, 38528), (454, 38402), (596, 38219), (599, 38213), (602, 38207), (649, 38129), (740, 38015), (772, 37988), (781, 37964), (801, 37904), (815, 37859), (830, 37838), (867, 37799), (875, 37781), (939, 37664), (964, 37616), (966, 37613), (971, 37598), (1013, 37502), (1023, 37481), (1036, 37451),

Gene: Stardom_79 Start: 45979, Stop: 47289, Start Num: 295

Candidate Starts for Stardom_79:

(Start: 295 @45979 has 213 MA's), (455, 46282), (578, 46417), (587, 46447), (645, 46561), (677, 46609), (695, 46639), (701, 46654), (722, 46684), (725, 46687), (776, 46741), (778, 46747), (779, 46750), (781, 46753), (785, 46765), (805, 46825), (814, 46855), (1079, 47098), (1089, 47116), (1138, 47188), (1162, 47224),

Gene: Stardrop_76 Start: 46799, Stop: 48046, Start Num: 294

Candidate Starts for Stardrop_76:

(Start: 294 @46799 has 45 MA's), (Start: 384 @46961 has 1 MA's), (388, 46973), (413, 47027), (455, 47105), (587, 47270), (590, 47279), (639, 47372), (677, 47432), (722, 47507), (781, 47576), (1096, 47951), (1107, 47969),

Gene: Stayer_74 Start: 46142, Stop: 47380, Start Num: 295

Candidate Starts for Stayer_74:

(Start: 295 @46142 has 213 MA's), (388, 46313), (455, 46445), (578, 46580), (587, 46610), (614, 46667), (677, 46772), (680, 46778), (698, 46811), (781, 46916), (996, 47105), (1107, 47318), (1140, 47363),

Gene: SteakFry_87 Start: 50087, Stop: 48567, Start Num: 292

Candidate Starts for SteakFry_87:

(265, 50120), (Start: 292 @50087 has 28 MA's), (Start: 315 @50036 has 2 MA's), (383, 49928), (412, 49862), (449, 49796), (529, 49679), (541, 49658), (578, 49601), (590, 49568), (592, 49565), (623, 49502), (653, 49451), (661, 49442), (665, 49433), (668, 49427), (686, 49403), (697, 49379), (723, 49340), (745, 49325), (781, 49274), (787, 49256), (821, 49163), (840, 49136), (865, 49091), (962,

48905), (1019, 48797), (1032, 48767), (1057, 48722), (1077, 48671), (1120, 48608),

Gene: SteamedHams_54 Start: 38292, Stop: 36814, Start Num: 277

Candidate Starts for SteamedHams_54:

(Start: 277 @38292 has 49 MA's), (330, 38199), (Start: 343 @38172 has 1 MA's), (388, 38097), (Start: 408 @38055 has 1 MA's), (453, 37974), (577, 37842), (596, 37788), (602, 37776), (649, 37698), (740, 37584), (772, 37557), (781, 37533), (794, 37494), (815, 37428), (830, 37407), (875, 37350), (939, 37233), (964, 37185), (971, 37167), (1013, 37071), (1023, 37050), (1036, 37020),

Gene: SteveFrench_58 Start: 52481, Stop: 50949, Start Num: 306

Candidate Starts for SteveFrench_58:

(177, 52736), (201, 52685), (248, 52580), (265, 52550), (Start: 290 @52517 has 3 MA's), (Start: 295 @52508 has 213 MA's), (Start: 306 @52481 has 28 MA's), (Start: 375 @52358 has 28 MA's), (Start: 395 @52313 has 1 MA's), (416, 52271), (443, 52223), (444, 52220), (448, 52214), (449, 52211), (455, 52193), (464, 52172), (479, 52145), (516, 52022), (525, 52004), (580, 51917), (583, 51902), (622, 51809), (665, 51731), (679, 51707), (698, 51671), (714, 51641), (747, 51599), (776, 51554), (857, 51419), (865, 51404), (883, 51383), (953, 51299), (982, 51242), (985, 51236), (990, 51224), (1016, 51173), (1025, 51149), (1048, 51110), (1055, 51098), (1057, 51095), (1099, 51002), (1109, 50987),

Gene: StevieWelch_85 Start: 49882, Stop: 48362, Start Num: 292

Candidate Starts for StevieWelch_85:

(265, 49915), (Start: 292 @49882 has 28 MA's), (Start: 315 @49831 has 2 MA's), (383, 49723), (412, 49657), (449, 49591), (535, 49468), (541, 49453), (578, 49396), (590, 49363), (592, 49360), (623, 49297), (653, 49246), (661, 49237), (665, 49228), (668, 49222), (686, 49198), (697, 49174), (723, 49135), (745, 49120), (781, 49069), (787, 49051), (821, 48958), (840, 48931), (865, 48886), (962, 48700), (1019, 48592), (1032, 48562), (1057, 48517), (1077, 48466), (1105, 48421), (1120, 48403),

Gene: Stewart25555_92 Start: 77330, Stop: 79183, Start Num: 71

Candidate Starts for Stewart25555_92:

(Start: 71 @77330 has 13 MA's), (169, 77603), (248, 77708), (269, 77744), (Start: 293 @77774 has 5 MA's), (329, 77843), (333, 77852), (356, 77897), (497, 78023), (601, 78236), (623, 78281), (665, 78341), (693, 78386), (777, 78449), (788, 78482), (793, 78494), (797, 78506), (878, 78623), (924, 78692), (956, 78752), (993, 78836), (1027, 78908), (1040, 78929), (1054, 78953), (1147, 79121), (1149, 79124),

Gene: Sticker17_57 Start: 52601, Stop: 51189, Start Num: 375

Candidate Starts for Sticker17_57:

(177, 52949), (233, 52820), (288, 52733), (Start: 290 @52730 has 3 MA's), (Start: 375 @52601 has 28 MA's), (Start: 395 @52556 has 1 MA's), (443, 52466), (444, 52463), (448, 52457), (455, 52436), (483, 52373), (516, 52265), (525, 52247), (580, 52160), (583, 52145), (601, 52103), (635, 52022), (665, 51974), (690, 51932), (698, 51914), (700, 51911), (714, 51884), (758, 51833), (776, 51797), (794, 51746), (857, 51662), (867, 51641), (982, 51485), (985, 51479), (990, 51467), (1055, 51341), (1109, 51227),

Gene: Stickynote_71 Start: 52712, Stop: 50787, Start Num: 74

Candidate Starts for Stickynote_71:

(32, 52805), (Start: 74 @52712 has 16 MA's), (134, 52541), (153, 52487), (269, 52283), (365, 52127), (394, 52076), (Start: 395 @52073 has 1 MA's), (427, 52031), (511, 51944), (512, 51941), (548, 51869), (555, 51860), (777, 51503), (788, 51470), (811, 51413), (981, 51131), (1012, 51065), (1018, 51053), (1024, 51035), (1027, 51029), (1040, 51008), (1068, 50945), (1087, 50912), (1112, 50873),

Gene: Stiles_49 Start: 38782, Stop: 40143, Start Num: 342

Candidate Starts for Stiles_49:

(Start: 342 @38782 has 7 MA's), (389, 38857), (391, 38863), (394, 38869), (444, 38962), (467, 39016), (471, 39022), (500, 39028), (502, 39031), (574, 39151), (582, 39169), (642, 39286), (755, 39424), (780, 39463), (793, 39496), (795, 39502), (800, 39517), (811, 39556), (864, 39616), (944, 39751), (982, 39832), (1026, 39928), (1064, 40009), (1067, 40015), (1073, 40027), (1091, 40057),

Gene: StingRay_40 Start: 30819, Stop: 29431, Start Num: 319

Candidate Starts for StingRay_40:

(197, 31041), (Start: 319 @30819 has 153 MA's), (405, 30675), (Start: 408 @30669 has 1 MA's), (410, 30666), (471, 30552), (511, 30525), (547, 30465), (572, 30438), (577, 30435), (622, 30339), (644, 30297), (781, 30126), (790, 30105), (797, 30090), (817, 30030), (863, 29997), (874, 29970), (927, 29874), (960, 29811), (982, 29757), (1023, 29673), (1024, 29667), (1031, 29655), (1077, 29559), (1109, 29505), (1112, 29502), (1128, 29478),

Gene: StirfryIV_40 Start: 30812, Stop: 29424, Start Num: 319

Candidate Starts for StirfryIV_40:

(39, 31463), (163, 31109), (197, 31034), (Start: 319 @30812 has 153 MA's), (405, 30668), (Start: 408 @30662 has 1 MA's), (410, 30659), (471, 30545), (511, 30518), (547, 30458), (572, 30431), (577, 30428), (622, 30332), (644, 30290), (781, 30119), (790, 30098), (797, 30083), (817, 30023), (874, 29963), (927, 29867), (960, 29804), (982, 29750), (1023, 29666), (1024, 29660), (1031, 29648), (1077, 29552), (1109, 29498), (1112, 29495), (1128, 29471),

Gene: Stormbreaker8_40 Start: 31269, Stop: 29878, Start Num: 319

Candidate Starts for Stormbreaker8_40:

(157, 31557), (167, 31536), (Start: 319 @31269 has 153 MA's), (405, 31122), (Start: 408 @31116 has 1 MA's), (410, 31113), (443, 31053), (471, 30999), (511, 30972), (547, 30912), (572, 30885), (577, 30882), (622, 30786), (644, 30744), (781, 30573), (790, 30552), (874, 30417), (927, 30321), (982, 30204), (991, 30186), (1023, 30120), (1024, 30114), (1031, 30102), (1077, 30006), (1109, 29952), (1112, 29949), (1128, 29925), (1151, 29895),

Gene: Stormer_61 Start: 39106, Stop: 41022, Start Num: 55

Candidate Starts for Stormer_61:

(Start: 55 @39106 has 13 MA's), (Start: 58 @39109 has 23 MA's), (Start: 76 @39121 has 2 MA's), (Start: 89 @39169 has 2 MA's), (Start: 103 @39202 has 1 MA's), (155, 39361), (172, 39388), (175, 39397), (219, 39469), (Start: 297 @39589 has 15 MA's), (331, 39652), (Start: 387 @39742 has 1 MA's), (401, 39769), (509, 39898), (519, 39922), (542, 39964), (548, 39976), (562, 39991), (577, 40012), (583, 40033), (590, 40054), (620, 40111), (627, 40129), (652, 40165), (679, 40207), (716, 40267), (788, 40363), (790, 40366), (915, 40543), (951, 40594), (992, 40684), (1009, 40720), (1012, 40726), (1037, 40780), (1059, 40819), (1112, 40921), (1123, 40936), (1137, 40957),

Gene: Strathdee_41 Start: 31119, Stop: 29731, Start Num: 319

Candidate Starts for Strathdee_41:

(39, 31770), (163, 31416), (197, 31341), (Start: 319 @31119 has 153 MA's), (405, 30975), (Start: 408 @30969 has 1 MA's), (410, 30966), (471, 30852), (511, 30825), (547, 30765), (572, 30738), (577, 30735), (622, 30639), (644, 30597), (781, 30426), (790, 30405), (801, 30378), (817, 30330), (874, 30270), (960, 30111), (982, 30057), (1023, 29973), (1024, 29967), (1031, 29955), (1077, 29859), (1109, 29805), (1112, 29802), (1128, 29778),

Gene: Studio_40 Start: 27739, Stop: 25907, Start Num: 75

Candidate Starts for Studio_40:

(Start: 75 @27739 has 19 MA's), (90, 27682), (174, 27481), (248, 27346), (329, 27211), (341, 27184), (438, 27127), (444, 27112), (467, 27058), (519, 26962), (522, 26956), (530, 26941), (578, 26866), (583, 26848), (590, 26827), (599, 26809), (687, 26665), (693, 26653), (777, 26590), (808, 26518), (840, 26458), (875, 26437), (920, 26371), (924, 26362), (933, 26353), (940, 26335), (942, 26332),

(961, 26296), (1009, 26188), (1013, 26179), (1027, 26146), (1044, 26119), (1063, 26071),

Gene: Stuff_42 Start: 31323, Stop: 32717, Start Num: 302

Candidate Starts for Stuff_42:

(Start: 302 @31323 has 13 MA's), (Start: 303 @31326 has 4 MA's), (339, 31401), (353, 31425), (356, 31431), (381, 31455), (Start: 387 @31470 has 1 MA's), (388, 31473), (389, 31476), (424, 31545), (440, 31560), (459, 31596), (547, 31695), (575, 31716), (596, 31773), (651, 31896), (740, 32031), (764, 32058), (777, 32079), (808, 32157), (821, 32190), (827, 32199), (912, 32241), (942, 32307), (953, 32331), (963, 32349), (971, 32367), (992, 32421), (1009, 32451), (1034, 32508), (1036, 32511), (1061, 32559), (1074, 32598), (1082, 32613), (1138, 32682), (1150, 32700), (1156, 32709),

Gene: Sucha_30 Start: 20665, Stop: 22092, Start Num: 298

Candidate Starts for Sucha_30:

(281, 20644), (Start: 298 @20665 has 19 MA's), (509, 21019), (511, 21022), (519, 21043), (583, 21130), (601, 21172), (773, 21454), (777, 21466), (785, 21487), (794, 21514), (807, 21541), (808, 21544), (817, 21571), (821, 21577), (903, 21613), (953, 21712), (981, 21775), (992, 21796), (1020, 21850), (1034, 21883), (1043, 21895), (1061, 21934), (1072, 21970), (1075, 21976), (1082, 21988), (1113, 22021), (1134, 22051),

Gene: Sukkupi_71 Start: 54175, Stop: 52319, Start Num: 120

Candidate Starts for Sukkupi_71:

(9, 54592), (11, 54574), (16, 54499), (Start: 35 @54400 has 35 MA's), (Start: 120 @54175 has 3 MA's), (269, 53881), (Start: 297 @53848 has 15 MA's), (Start: 306 @53827 has 28 MA's), (336, 53773), (339, 53767), (341, 53764), (394, 53674), (Start: 395 @53671 has 1 MA's), (441, 53611), (553, 53455), (627, 53308), (688, 53200), (700, 53176), (777, 53074), (796, 53020), (805, 53005), (847, 52924), (876, 52885), (919, 52822), (939, 52783), (942, 52777), (956, 52747), (1009, 52630), (1040, 52567), (1068, 52504), (1078, 52486), (1133, 52402),

Gene: SummitAcademy_56 Start: 40461, Stop: 38983, Start Num: 277

Candidate Starts for SummitAcademy_56:

(217, 40539), (248, 40488), (Start: 250 @40485 has 2 MA's), (Start: 277 @40461 has 49 MA's), (312, 40398), (328, 40377), (330, 40371), (Start: 343 @40344 has 1 MA's), (379, 40290), (394, 40254), (401, 40239), (453, 40143), (456, 40134), (465, 40113), (532, 40047), (577, 40011), (596, 39957), (599, 39951), (602, 39945), (649, 39867), (661, 39852), (740, 39753), (788, 39678), (797, 39654), (801, 39642), (808, 39621), (812, 39606), (815, 39597), (830, 39576), (867, 39537), (870, 39528), (877, 39513), (907, 39462), (942, 39390), (964, 39348), (966, 39345), (971, 39330), (1013, 39234), (1036, 39183), (1055, 39153), (1066, 39120), (1097, 39063), (1106, 39048),

Gene: Sunny4976_72 Start: 48298, Stop: 49527, Start Num: 294

Candidate Starts for Sunny4976_72:

(Start: 294 @48298 has 45 MA's), (Start: 318 @48346 has 13 MA's), (388, 48472), (455, 48604), (519, 48679), (578, 48739), (587, 48769), (594, 48784), (596, 48790), (622, 48838), (660, 48901), (677, 48931), (1036, 49333), (1047, 49348), (1138, 49510), (1140, 49513),

Gene: SuperSonics_79 Start: 49055, Stop: 51088, Start Num: 54

Candidate Starts for SuperSonics_79:

(27, 48965), (Start: 54 @49055 has 3 MA's), (78, 49079), (Start: 94 @49142 has 4 MA's), (122, 49208), (139, 49262), (182, 49370), (199, 49403), (225, 49442), (241, 49466), (283, 49529), (Start: 297 @49547 has 15 MA's), (299, 49550), (Start: 306 @49568 has 28 MA's), (310, 49574), (351, 49643), (371, 49670), (380, 49682), (399, 49715), (453, 49817), (548, 49940), (573, 49970), (620, 50075), (627, 50093), (687, 50183), (688, 50186), (738, 50288), (761, 50327), (773, 50354), (777, 50366), (794, 50414), (802, 50432), (810, 50459), (814, 50471), (819, 50480), (942, 50618), (965, 50663), (1008, 50768), (1068, 50897), (1087, 50930), (1097, 50948), (1135, 51002), (1160, 51041),

Gene: SuperSulley_74 Start: 57198, Stop: 55111, Start Num: 35

Candidate Starts for SuperSulley_74:

(Start: 35 @57198 has 35 MA's), (85, 57078), (Start: 98 @57033 has 1 MA's), (101, 57030), (198, 56775), (269, 56667), (Start: 306 @56613 has 28 MA's), (341, 56550), (394, 56460), (Start: 395 @56457 has 1 MA's), (Start: 408 @56433 has 1 MA's), (441, 56397), (542, 56259), (553, 56241), (562, 56232), (573, 56217), (627, 56094), (670, 56010), (688, 55983), (700, 55959), (777, 55860), (796, 55806), (819, 55752), (847, 55710), (876, 55671), (921, 55602), (939, 55569), (956, 55533), (977, 55488), (981, 55476), (1009, 55416), (1012, 55410), (1040, 55353), (1133, 55188), (1149, 55164),

Gene: Superfresh_41 Start: 31109, Stop: 29721, Start Num: 319

Candidate Starts for Superfresh_41:

(197, 31331), (Start: 319 @31109 has 153 MA's), (405, 30965), (Start: 408 @30959 has 1 MA's), (410, 30956), (471, 30842), (511, 30815), (547, 30755), (572, 30728), (577, 30725), (622, 30629), (644, 30587), (781, 30416), (790, 30395), (797, 30380), (801, 30368), (817, 30320), (874, 30260), (927, 30164), (960, 30101), (982, 30047), (1023, 29963), (1024, 29957), (1031, 29945), (1066, 29870), (1077, 29849), (1109, 29795), (1112, 29792), (1128, 29768),

Gene: SuperheroCarly_53 Start: 39596, Stop: 41566, Start Num: 46

Candidate Starts for SuperheroCarly_53:

(Start: 46 @39596 has 1 MA's), (52, 39611), (Start: 65 @39623 has 24 MA's), (80, 39650), (104, 39722), (121, 39776), (140, 39836), (151, 39863), (174, 39914), (193, 39956), (219, 39992), (269, 40079), (329, 40172), (335, 40187), (347, 40208), (414, 40310), (438, 40343), (450, 40367), (512, 40427), (562, 40514), (596, 40589), (652, 40679), (688, 40730), (690, 40733), (764, 40823), (777, 40841), (788, 40874), (810, 40928), (814, 40940), (824, 40958), (865, 41021), (939, 41105), (992, 41222), (1009, 41270), (1040, 41333), (1078, 41417),

Gene: Suppi_29 Start: 22165, Stop: 23559, Start Num: 295

Candidate Starts for Suppi_29:

(Start: 295 @22165 has 213 MA's), (328, 22222), (Start: 387 @22327 has 1 MA's), (429, 22414), (509, 22498), (511, 22501), (512, 22504), (580, 22594), (590, 22630), (595, 22639), (599, 22648), (620, 22705), (627, 22723), (650, 22756), (660, 22768), (704, 22837), (719, 22864), (742, 22888), (777, 22930), (788, 22963), (794, 22978), (797, 22987), (904, 23077), (940, 23146), (953, 23173), (963, 23191), (969, 23203), (1009, 23293), (1012, 23299), (1017, 23308), (1019, 23314), (1034, 23350), (1072, 23437), (1113, 23488), (1140, 23527), (1156, 23551),

Gene: Survivors_49 Start: 37834, Stop: 36344, Start Num: 277

Candidate Starts for Survivors_49:

(Start: 277 @37834 has 49 MA's), (330, 37744), (Start: 343 @37717 has 1 MA's), (370, 37675), (391, 37633), (394, 37627), (Start: 408 @37600 has 1 MA's), (453, 37519), (454, 37516), (456, 37510), (465, 37489), (532, 37423), (596, 37333), (602, 37321), (639, 37258), (649, 37243), (661, 37228), (762, 37111), (772, 37102), (799, 37024), (808, 36997), (811, 36985), (815, 36973), (857, 36934), (867, 36913), (868, 36910), (875, 36895), (907, 36823), (964, 36709), (981, 36664), (988, 36649), (998, 36619), (1013, 36595), (1036, 36544), (1055, 36514), (1085, 36448), (1097, 36424), (1121, 36391), (1146, 36355),

Gene: Suzy_49 Start: 37573, Stop: 39624, Start Num: 74

Candidate Starts for Suzy_49:

(Start: 74 @37573 has 16 MA's), (106, 37660), (124, 37720), (131, 37744), (144, 37786), (266, 38008), (Start: 297 @38044 has 15 MA's), (Start: 395 @38200 has 1 MA's), (405, 38218), (414, 38239), (421, 38251), (456, 38311), (468, 38326), (509, 38344), (548, 38422), (562, 38437), (564, 38440), (583, 38479), (590, 38500), (688, 38659), (698, 38680), (700, 38683), (709, 38695), (736, 38743), (737, 38749), (739, 38755), (759, 38830), (774, 38872), (785, 38902), (833, 39025), (856, 39058), (863,

39070), (905, 39124), (951, 39196), (956, 39205), (990, 39280), (1013, 39334), (1037, 39385), (1049, 39403), (1068, 39451), (1071, 39460), (1078, 39472), (1087, 39487), (1114, 39529), (1135, 39559),

Gene: SweatNTears_55 Start: 38970, Stop: 37492, Start Num: 277

Candidate Starts for SweatNTears_55:

(Start: 277 @38970 has 49 MA's), (328, 38883), (330, 38877), (379, 38796), (453, 38652), (454, 38649), (596, 38466), (599, 38460), (602, 38454), (649, 38376), (740, 38262), (772, 38235), (781, 38211), (801, 38151), (815, 38106), (830, 38085), (867, 38046), (875, 38028), (939, 37911), (964, 37863), (966, 37860), (971, 37845), (1013, 37749), (1023, 37728), (1036, 37698),

Gene: SweetCrkHerbs_89 Start: 53438, Stop: 54658, Start Num: 295

Candidate Starts for SweetCrkHerbs_89:

(Start: 295 @53438 has 213 MA's), (Start: 327 @53498 has 23 MA's), (328, 53501), (347, 53540), (359, 53564), (392, 53606), (413, 53648), (433, 53681), (452, 53720), (455, 53726), (509, 53777), (518, 53798), (519, 53801), (578, 53861), (604, 53927), (623, 53963), (639, 53993), (650, 54011), (671, 54044), (673, 54047), (677, 54053), (717, 54119), (722, 54128), (725, 54131), (765, 54167), (773, 54176), (776, 54185), (781, 54197), (819, 54311), (992, 54380), (1018, 54419), (1029, 54446), (1086, 54560), (1096, 54578),

Gene: Sweetclover_73 Start: 45492, Stop: 46559, Start Num: 395

Candidate Starts for Sweetclover_73:

(Start: 295 @45303 has 213 MA's), (333, 45378), (347, 45405), (Start: 395 @45492 has 1 MA's), (413, 45528), (454, 45600), (587, 45768), (614, 45825), (622, 45837), (645, 45882), (677, 45930), (698, 45969), (701, 45975), (722, 46005), (776, 46062), (796, 46119), (799, 46128), (805, 46146), (817, 46182), (1036, 46332), (1038, 46335), (1047, 46347), (1068, 46398),

Gene: Symere_40 Start: 30799, Stop: 29411, Start Num: 319

Candidate Starts for Symere_40:

(39, 31450), (163, 31096), (197, 31021), (Start: 319 @30799 has 153 MA's), (405, 30655), (Start: 408 @30649 has 1 MA's), (410, 30646), (465, 30541), (471, 30532), (511, 30505), (547, 30445), (572, 30418), (577, 30415), (622, 30319), (644, 30277), (781, 30106), (790, 30085), (797, 30070), (817, 30010), (874, 29950), (927, 29854), (960, 29791), (982, 29737), (1023, 29653), (1024, 29647), (1031, 29635), (1109, 29485), (1112, 29482), (1128, 29458),

Gene: Synopsis_67 Start: 47848, Stop: 49098, Start Num: 294

Candidate Starts for Synopsis_67:

(Start: 294 @47848 has 45 MA's), (299, 47857), (Start: 318 @47896 has 13 MA's), (358, 47974), (388, 48022), (Start: 395 @48040 has 1 MA's), (455, 48154), (518, 48226), (578, 48289), (587, 48319), (622, 48388), (677, 48481), (680, 48487), (700, 48523), (781, 48625), (1036, 48883), (1047, 48898), (1057, 48916), (1060, 48928), (1061, 48931), (1096, 49000),

Gene: TMaxx_39 Start: 26999, Stop: 25191, Start Num: 75

Candidate Starts for TMaxx_39:

(48, 27044), (Start: 75 @26999 has 19 MA's), (90, 26939), (118, 26876), (174, 26738), (248, 26609), (Start: 302 @26525 has 13 MA's), (438, 26387), (530, 26201), (583, 26108), (590, 26087), (693, 25916), (700, 25901), (777, 25853), (814, 25784), (818, 25778), (828, 25763), (875, 25724), (878, 25715), (919, 25661), (920, 25658), (933, 25640), (940, 25622), (1013, 25466), (1027, 25433), (1044, 25406), (1056, 25385), (1114, 25268), (1149, 25217),

Gene: TaidaOne_81 Start: 49864, Stop: 51048, Start Num: 295

Candidate Starts for TaidaOne_81:

(Start: 295 @49864 has 213 MA's), (Start: 318 @49909 has 13 MA's), (333, 49939), (455, 50110), (518, 50182), (587, 50284), (673, 50440), (677, 50446), (698, 50485), (701, 50491), (720, 50518),

(781, 50590), (799, 50644), (807, 50668), (814, 50692), (817, 50698), (909, 50722), (978, 50728), (1036, 50842), (1086, 50941), (1089, 50947), (1107, 50977), (1115, 50986), (1147, 51031),

Gene: Tairn4Wing_90 Start: 53459, Stop: 54679, Start Num: 295

Candidate Starts for Tairn4Wing_90:

(Start: 295 @53459 has 213 MA's), (Start: 327 @53519 has 23 MA's), (328, 53522), (347, 53561), (359, 53585), (392, 53627), (413, 53669), (429, 53696), (433, 53702), (452, 53741), (518, 53819), (578, 53882), (623, 53984), (639, 54014), (650, 54032), (671, 54065), (673, 54068), (677, 54074), (717, 54140), (722, 54149), (725, 54152), (765, 54188), (773, 54197), (776, 54206), (781, 54218), (798, 54269), (799, 54272), (814, 54323), (819, 54332), (992, 54401), (1018, 54440), (1068, 54548), (1086, 54581), (1096, 54599), (1105, 54614),

Gene: Talia1610_101 Start: 80103, Stop: 81941, Start Num: 71

Candidate Starts for Talia1610_101:

(Start: 71 @80103 has 13 MA's), (Start: 94 @80184 has 4 MA's), (127, 80262), (169, 80358), (222, 80418), (239, 80448), (310, 80568), (337, 80619), (435, 80679), (613, 81018), (648, 81075), (665, 81096), (693, 81141), (730, 81198), (777, 81204), (788, 81237), (793, 81249), (797, 81261), (814, 81306), (839, 81345), (888, 81402), (903, 81408), (920, 81441), (956, 81510), (993, 81594), (1054, 81711), (1152, 81885), (1169, 81927),

Gene: Talon44_89 Start: 54035, Stop: 55255, Start Num: 295

Candidate Starts for Talon44_89:

(Start: 295 @54035 has 213 MA's), (Start: 327 @54095 has 23 MA's), (328, 54098), (347, 54137), (359, 54161), (392, 54203), (413, 54245), (433, 54278), (452, 54317), (455, 54323), (509, 54374), (518, 54395), (519, 54398), (578, 54458), (604, 54524), (623, 54560), (639, 54590), (650, 54608), (671, 54641), (673, 54644), (677, 54650), (717, 54716), (722, 54725), (725, 54728), (765, 54764), (773, 54773), (776, 54782), (781, 54794), (819, 54908), (992, 54977), (1018, 55016), (1029, 55043), (1086, 55157), (1096, 55175),

Gene: Tandem_77 Start: 49353, Stop: 47830, Start Num: 292

Candidate Starts for Tandem_77:

(246, 49419), (262, 49392), (Start: 292 @49353 has 28 MA's), (374, 49203), (383, 49194), (429, 49098), (448, 49065), (457, 49038), (511, 48984), (535, 48939), (537, 48936), (590, 48831), (592, 48828), (661, 48705), (665, 48696), (674, 48684), (707, 48630), (781, 48537), (819, 48429), (840, 48399), (844, 48393), (846, 48390), (848, 48387), (865, 48354), (869, 48342), (936, 48216), (962, 48168), (1010, 48078), (1019, 48060), (1042, 48012), (1105, 47889),

Gene: Tanis_87 Start: 53496, Stop: 54716, Start Num: 295

Candidate Starts for Tanis_87:

(Start: 295 @53496 has 213 MA's), (Start: 327 @53556 has 23 MA's), (328, 53559), (347, 53598), (359, 53622), (392, 53664), (413, 53706), (433, 53739), (452, 53778), (455, 53784), (509, 53835), (518, 53856), (578, 53919), (623, 54021), (639, 54051), (650, 54069), (671, 54102), (677, 54111), (717, 54177), (722, 54186), (725, 54189), (765, 54225), (773, 54234), (776, 54243), (781, 54255), (798, 54306), (799, 54309), (814, 54360), (819, 54369), (992, 54438), (1018, 54477), (1068, 54585), (1086, 54618), (1096, 54636), (1115, 54663),

Gene: Tarnish_57 Start: 41046, Stop: 39568, Start Num: 277

Candidate Starts for Tarnish_57:

(Start: 277 @41046 has 49 MA's), (312, 40983), (328, 40962), (330, 40956), (Start: 343 @40929 has 1 MA's), (379, 40875), (394, 40839), (401, 40824), (453, 40728), (456, 40719), (465, 40698), (532, 40632), (577, 40596), (596, 40542), (599, 40536), (602, 40530), (649, 40452), (661, 40437), (740, 40338), (788, 40263), (797, 40239), (801, 40227), (808, 40206), (812, 40191), (815, 40182), (830, 40161), (867, 40122), (870, 40113), (877, 40098), (907, 40047), (942, 39975), (964, 39933), (966,

39930), (971, 39915), (1013, 39819), (1036, 39768), (1055, 39738), (1066, 39705), (1097, 39648), (1106, 39633),

Gene: Tatanka_66 Start: 48041, Stop: 49243, Start Num: 318

Candidate Starts for Tatanka_66:

(Start: 294 @47993 has 45 MA's), (299, 48002), (Start: 318 @48041 has 13 MA's), (358, 48119), (388, 48167), (Start: 395 @48185 has 1 MA's), (455, 48299), (518, 48371), (578, 48434), (587, 48464), (622, 48533), (677, 48626), (680, 48632), (700, 48668), (781, 48770), (1013, 48977), (1036, 49028), (1047, 49043), (1057, 49061), (1060, 49073), (1061, 49076), (1096, 49145),

Gene: TatarkaPM_41 Start: 31124, Stop: 29736, Start Num: 319

Candidate Starts for TatarkaPM_41:

(39, 31775), (163, 31421), (197, 31346), (Start: 319 @31124 has 153 MA's), (405, 30980), (Start: 408 @30974 has 1 MA's), (410, 30971), (471, 30857), (511, 30830), (547, 30770), (572, 30743), (577, 30740), (622, 30644), (644, 30602), (777, 30440), (781, 30431), (790, 30410), (797, 30395), (801, 30383), (817, 30335), (874, 30275), (927, 30179), (960, 30116), (982, 30062), (1023, 29978), (1024, 29972), (1031, 29960), (1077, 29864), (1109, 29810), (1112, 29807), (1128, 29783),

Gene: TattModd_29 Start: 22150, Stop: 23550, Start Num: 295

Candidate Starts for TattModd_29:

(Start: 295 @22150 has 213 MA's), (328, 22213), (Start: 387 @22318 has 1 MA's), (388, 22321), (429, 22405), (452, 22438), (509, 22489), (512, 22495), (575, 22576), (577, 22579), (580, 22585), (590, 22621), (599, 22639), (601, 22642), (610, 22675), (620, 22696), (627, 22714), (650, 22747), (704, 22828), (719, 22855), (754, 22885), (761, 22894), (777, 22921), (788, 22954), (794, 22969), (817, 23023), (860, 23044), (865, 23056), (904, 23068), (1012, 23290), (1017, 23299), (1019, 23305), (1034, 23341), (1063, 23401), (1072, 23428), (1140, 23518),

Gene: Teacup_73 Start: 48425, Stop: 49660, Start Num: 294

Candidate Starts for Teacup_73:

(Start: 292 @48419 has 28 MA's), (Start: 294 @48425 has 45 MA's), (299, 48434), (312, 48464), (Start: 318 @48473 has 13 MA's), (358, 48551), (388, 48599), (455, 48731), (518, 48803), (578, 48866), (587, 48896), (622, 48965), (677, 49058), (680, 49064), (700, 49100), (781, 49202), (992, 49382), (998, 49388), (1036, 49463), (1057, 49496), (1060, 49508), (1096, 49580), (1107, 49598),

Gene: Teagan_41 Start: 31114, Stop: 29726, Start Num: 319

Candidate Starts for Teagan_41:

(39, 31765), (163, 31411), (197, 31336), (Start: 319 @31114 has 153 MA's), (405, 30970), (Start: 408 @30964 has 1 MA's), (410, 30961), (471, 30847), (511, 30820), (547, 30760), (572, 30733), (577, 30730), (622, 30634), (644, 30592), (781, 30421), (790, 30400), (801, 30373), (817, 30325), (874, 30265), (960, 30106), (982, 30052), (1023, 29968), (1024, 29962), (1031, 29950), (1077, 29854), (1109, 29800), (1112, 29797), (1128, 29773),

Gene: Teal_57 Start: 53068, Stop: 51656, Start Num: 375

Candidate Starts for Teal_57:

(177, 53416), (233, 53287), (288, 53200), (Start: 290 @53197 has 3 MA's), (Start: 375 @53068 has 28 MA's), (Start: 395 @53023 has 1 MA's), (443, 52933), (444, 52930), (448, 52924), (455, 52903), (483, 52840), (516, 52732), (525, 52714), (580, 52627), (583, 52612), (601, 52570), (635, 52489), (665, 52441), (690, 52399), (698, 52381), (700, 52378), (714, 52351), (758, 52300), (776, 52264), (794, 52213), (857, 52129), (867, 52108), (982, 51952), (985, 51946), (990, 51934), (1055, 51808), (1109, 51694),

Gene: Teatealatte_58 Start: 53221, Stop: 51518, Start Num: 206

Candidate Starts for Teatealatte_58:

(Start: 206 @53221 has 9 MA's), (Start: 209 @53209 has 2 MA's), (Start: 316 @53026 has 5 MA's), (Start: 375 @52936 has 28 MA's), (381, 52927), (Start: 395 @52891 has 1 MA's), (Start: 408 @52867 has 1 MA's), (412, 52858), (416, 52849), (443, 52801), (449, 52789), (453, 52777), (480, 52720), (483, 52705), (484, 52702), (485, 52684), (496, 52648), (498, 52645), (564, 52516), (568, 52513), (583, 52477), (584, 52474), (590, 52456), (595, 52447), (601, 52435), (621, 52387), (635, 52354), (665, 52306), (679, 52282), (714, 52216), (776, 52117), (811, 52018), (856, 51985), (857, 51982), (926, 51916), (951, 51865), (953, 51862), (982, 51805), (990, 51787), (1048, 51670), (1050, 51667), (1057, 51655), (1109, 51556), (1125, 51535),

Gene: TeddyBear_40 Start: 30816, Stop: 29428, Start Num: 319

Candidate Starts for TeddyBear_40:

(197, 31038), (Start: 319 @30816 has 153 MA's), (405, 30672), (Start: 408 @30666 has 1 MA's), (410, 30663), (471, 30549), (511, 30522), (547, 30462), (572, 30435), (577, 30432), (617, 30339), (622, 30336), (644, 30294), (781, 30123), (790, 30102), (797, 30087), (801, 30075), (817, 30027), (874, 29967), (927, 29871), (960, 29808), (982, 29754), (1023, 29670), (1024, 29664), (1031, 29652), (1066, 29577), (1077, 29556), (1109, 29502), (1112, 29499), (1128, 29475),

Gene: Tedro_40 Start: 25407, Stop: 27314, Start Num: 68

Candidate Starts for Tedro_40:

(Start: 68 @25407 has 36 MA's), (93, 25470), (106, 25491), (122, 25545), (199, 25722), (229, 25767), (335, 25941), (339, 25950), (394, 26040), (422, 26097), (543, 26283), (620, 26418), (624, 26430), (650, 26463), (679, 26508), (777, 26592), (824, 26709), (993, 26982), (1009, 27018), (1010, 27021), (1037, 27081), (1080, 27171), (1097, 27201), (1126, 27243), (1163, 27294),

Gene: Teech_58 Start: 53022, Stop: 51319, Start Num: 206

Candidate Starts for Teech_58:

(Start: 206 @53022 has 9 MA's), (Start: 209 @53010 has 2 MA's), (Start: 316 @52827 has 5 MA's), (Start: 375 @52737 has 28 MA's), (381, 52728), (Start: 395 @52692 has 1 MA's), (Start: 408 @52668 has 1 MA's), (412, 52659), (416, 52650), (443, 52602), (453, 52578), (483, 52506), (485, 52485), (496, 52449), (498, 52446), (564, 52317), (568, 52314), (583, 52278), (584, 52275), (590, 52257), (595, 52248), (601, 52236), (621, 52188), (635, 52155), (665, 52107), (679, 52083), (714, 52017), (776, 51918), (811, 51819), (814, 51810), (856, 51786), (857, 51783), (926, 51717), (951, 51666), (953, 51663), (982, 51606), (990, 51588), (1048, 51471), (1050, 51468), (1057, 51456), (1109, 51357), (1125, 51336),

Gene: Temper16_26 Start: 21732, Stop: 23129, Start Num: 295

Candidate Starts for Temper16_26:

(Start: 295 @21732 has 213 MA's), (328, 21792), (379, 21879), (Start: 387 @21897 has 1 MA's), (388, 21900), (429, 21984), (433, 21990), (452, 22017), (509, 22068), (512, 22074), (540, 22125), (547, 22134), (575, 22155), (580, 22164), (590, 22200), (601, 22221), (610, 22254), (620, 22275), (627, 22293), (630, 22299), (650, 22326), (660, 22338), (667, 22353), (704, 22407), (742, 22458), (754, 22464), (761, 22473), (764, 22479), (777, 22500), (788, 22533), (794, 22548), (797, 22557), (924, 22680), (942, 22719), (953, 22743), (961, 22755), (1009, 22863), (1012, 22869), (1017, 22878), (1019, 22884), (1034, 22920), (1072, 23007), (1140, 23097), (1156, 23121),

Gene: TenaciousP_87 Start: 56116, Stop: 57330, Start Num: 295

Candidate Starts for TenaciousP_87:

(Start: 295 @56116 has 213 MA's), (299, 56122), (Start: 327 @56176 has 23 MA's), (328, 56179), (333, 56191), (347, 56218), (349, 56221), (359, 56242), (392, 56284), (413, 56326), (433, 56359), (452, 56398), (518, 56476), (519, 56479), (578, 56539), (623, 56641), (639, 56671), (671, 56722), (677, 56731), (698, 56770), (700, 56773), (717, 56797), (725, 56809), (760, 56836), (765, 56845), (776, 56863), (779, 56872), (781, 56875), (784, 56884), (798, 56926), (807, 56953), (814, 56977), (865, 57007), (1018, 57094), (1068, 57202), (1096, 57253), (1115, 57280), (1138, 57313),

Gene: Tenda_40 Start: 30814, Stop: 29426, Start Num: 319

Candidate Starts for Tenda_40:

(197, 31036), (Start: 319 @30814 has 153 MA's), (405, 30670), (Start: 408 @30664 has 1 MA's), (410, 30661), (471, 30547), (511, 30520), (547, 30460), (572, 30433), (577, 30430), (622, 30334), (644, 30292), (781, 30121), (790, 30100), (797, 30085), (817, 30025), (874, 29965), (927, 29869), (960, 29806), (982, 29752), (1023, 29668), (1024, 29662), (1031, 29650), (1077, 29554), (1109, 29500), (1112, 29497), (1128, 29473),

Gene: Tenney120_77 Start: 46531, Stop: 47778, Start Num: 294

Candidate Starts for Tenney120_77:

(Start: 294 @46531 has 45 MA's), (Start: 384 @46693 has 1 MA's), (388, 46705), (413, 46759), (455, 46837), (519, 46912), (587, 47002), (590, 47011), (639, 47104), (677, 47164), (722, 47239), (781, 47308), (1096, 47683), (1107, 47701),

Gene: Tenno_72 Start: 48509, Stop: 49759, Start Num: 294

Candidate Starts for Tenno_72:

(Start: 292 @48503 has 28 MA's), (Start: 294 @48509 has 45 MA's), (299, 48518), (312, 48548), (Start: 318 @48557 has 13 MA's), (358, 48635), (388, 48683), (Start: 395 @48701 has 1 MA's), (455, 48815), (518, 48887), (578, 48950), (587, 48980), (622, 49049), (677, 49142), (680, 49148), (700, 49184), (781, 49286), (992, 49463), (1036, 49544), (1057, 49577), (1060, 49589), (1061, 49592), (1096, 49661), (1107, 49679),

Gene: Terapin_51 Start: 36616, Stop: 38670, Start Num: 74

Candidate Starts for Terapin_51:

(Start: 74 @36616 has 16 MA's), (82, 36640), (106, 36703), (131, 36787), (144, 36829), (266, 37051), (Start: 297 @37087 has 15 MA's), (337, 37162), (359, 37201), (Start: 395 @37243 has 1 MA's), (405, 37261), (414, 37282), (421, 37294), (456, 37354), (468, 37369), (509, 37387), (548, 37465), (562, 37480), (564, 37483), (583, 37522), (590, 37543), (650, 37645), (688, 37702), (698, 37723), (700, 37726), (709, 37738), (736, 37786), (737, 37792), (749, 37840), (759, 37873), (770, 37897), (774, 37915), (785, 37945), (833, 38068), (856, 38101), (863, 38113), (876, 38128), (905, 38167), (939, 38212), (951, 38239), (990, 38323), (1018, 38386), (1037, 38428), (1044, 38437), (1049, 38446), (1068, 38494), (1071, 38503), (1078, 38515), (1087, 38530), (1114, 38572),

Gene: Theresita_31 Start: 21253, Stop: 22665, Start Num: 298

Candidate Starts for Theresita_31:

(Start: 298 @21253 has 19 MA's), (383, 21397), (389, 21415), (436, 21505), (557, 21664), (577, 21682), (580, 21688), (583, 21703), (590, 21724), (601, 21745), (710, 21955), (740, 21991), (777, 22039), (785, 22060), (788, 22072), (794, 22087), (807, 22114), (811, 22129), (903, 22186), (942, 22261), (953, 22285), (969, 22315), (973, 22327), (992, 22369), (1009, 22399), (1034, 22456), (1043, 22468), (1075, 22549), (1077, 22552), (1100, 22576), (1113, 22594), (1134, 22624),

Gene: Thiqqums_89 Start: 51423, Stop: 52613, Start Num: 295

Candidate Starts for Thiqqums_89:

(Start: 295 @51423 has 213 MA's), (349, 51528), (413, 51597), (519, 51750), (536, 51768), (594, 51855), (622, 51909), (677, 52002), (693, 52029), (784, 52155), (805, 52218), (814, 52248), (824, 52266), (1047, 52413), (1077, 52482), (1086, 52497), (1095, 52512), (1105, 52530), (1107, 52533), (1115, 52542),

Gene: Thompsone_41 Start: 31121, Stop: 29733, Start Num: 319

Candidate Starts for Thompsone_41:

(39, 31772), (163, 31418), (197, 31343), (Start: 319 @31121 has 153 MA's), (405, 30977), (Start: 408 @30971 has 1 MA's), (410, 30968), (471, 30854), (511, 30827), (547, 30767), (572, 30740), (577,

30737), (622, 30641), (644, 30599), (781, 30428), (790, 30407), (801, 30380), (817, 30332), (874, 30272), (960, 30113), (982, 30059), (1023, 29975), (1024, 29969), (1031, 29957), (1066, 29882), (1077, 29861), (1109, 29807), (1112, 29804), (1128, 29780),

Gene: Thorongil_41 Start: 31121, Stop: 29733, Start Num: 319

Candidate Starts for Thorongil_41:

(249, 31220), (251, 31217), (254, 31214), (308, 31130), (Start: 319 @31121 has 153 MA's), (405, 30977), (Start: 408 @30971 has 1 MA's), (410, 30968), (471, 30854), (511, 30827), (547, 30767), (572, 30740), (577, 30737), (622, 30641), (644, 30599), (781, 30428), (790, 30407), (797, 30392), (801, 30380), (817, 30332), (874, 30272), (960, 30113), (982, 30059), (1023, 29975), (1024, 29969), (1031, 29957), (1066, 29882), (1077, 29861), (1109, 29807), (1112, 29804), (1128, 29780),

Gene: Thoth_53 Start: 39727, Stop: 41670, Start Num: 65

Candidate Starts for Thoth_53:

(Start: 65 @39727 has 24 MA's), (80, 39754), (104, 39826), (121, 39880), (140, 39940), (146, 39958), (151, 39967), (174, 40018), (193, 40060), (219, 40096), (269, 40183), (329, 40276), (335, 40291), (347, 40312), (414, 40414), (438, 40447), (450, 40471), (512, 40531), (562, 40618), (596, 40693), (652, 40783), (688, 40834), (690, 40837), (764, 40927), (777, 40945), (788, 40978), (810, 41032), (814, 41044), (824, 41062), (865, 41125), (939, 41209), (992, 41326), (1009, 41374), (1040, 41437), (1078, 41521),

Gene: Thumb_62 Start: 46085, Stop: 48142, Start Num: 51

Candidate Starts for Thumb_62:

(Start: 51 @46085 has 11 MA's), (85, 46145), (86, 46148), (119, 46241), (124, 46253), (129, 46274), (177, 46397), (179, 46400), (182, 46409), (199, 46442), (208, 46463), (225, 46511), (Start: 297 @46616 has 15 MA's), (Start: 306 @46637 has 28 MA's), (310, 46643), (Start: 342 @46697 has 7 MA's), (453, 46883), (457, 46895), (470, 46913), (509, 46928), (512, 46934), (688, 47252), (690, 47255), (716, 47300), (773, 47351), (777, 47363), (810, 47453), (814, 47465), (835, 47498), (851, 47522), (856, 47531), (942, 47621), (958, 47654), (1008, 47765), (1009, 47768), (1010, 47771), (1012, 47774), (1037, 47828), (1068, 47894), (1078, 47912), (1171, 48089),

Gene: Thunderclap_70 Start: 47442, Stop: 46048, Start Num: 317

Candidate Starts for Thunderclap_70:

(Start: 317 @47442 has 13 MA's), (353, 47373), (399, 47298), (409, 47280), (425, 47250), (467, 47169), (520, 47115), (582, 47019), (656, 46875), (679, 46836), (773, 46722), (809, 46671), (831, 46650), (850, 46620), (860, 46605), (865, 46593), (914, 46512), (936, 46464), (950, 46437), (962, 46416), (997, 46332), (1032, 46266), (1139, 46077), (1146, 46065),

Gene: TieDye_77 Start: 48712, Stop: 49896, Start Num: 295

Candidate Starts for TieDye_77:

(Start: 295 @48712 has 213 MA's), (Start: 318 @48757 has 13 MA's), (333, 48787), (455, 48958), (518, 49030), (587, 49132), (677, 49294), (698, 49333), (701, 49339), (720, 49366), (781, 49438), (799, 49492), (807, 49516), (814, 49540), (817, 49546), (909, 49570), (978, 49576), (1036, 49690), (1086, 49789), (1089, 49795), (1107, 49825), (1115, 49834), (1147, 49879),

Gene: Tiggy93_40 Start: 25940, Stop: 27847, Start Num: 68

Candidate Starts for Tiggy93_40:

(Start: 68 @25940 has 36 MA's), (93, 26003), (106, 26024), (122, 26078), (199, 26255), (229, 26300), (335, 26474), (339, 26483), (394, 26573), (422, 26630), (543, 26816), (620, 26951), (624, 26963), (650, 26996), (777, 27125), (824, 27242), (888, 27317), (1009, 27551), (1010, 27554), (1037, 27614), (1080, 27704), (1097, 27734), (1126, 27776), (1163, 27827),

Gene: Tillicus_56 Start: 39985, Stop: 41907, Start Num: 60

Candidate Starts for Tillicus_56:

(19, 39862), (25, 39883), (31, 39904), (41, 39934), (Start: 51 @39967 has 11 MA's), (Start: 55 @39979 has 13 MA's), (Start: 60 @39985 has 1 MA's), (Start: 76 @40003 has 2 MA's), (80, 40015), (Start: 89 @40051 has 2 MA's), (Start: 103 @40084 has 1 MA's), (105, 40087), (119, 40135), (125, 40153), (155, 40243), (166, 40261), (172, 40270), (175, 40279), (219, 40351), (Start: 297 @40471 has 15 MA's), (299, 40474), (331, 40534), (340, 40552), (Start: 387 @40624 has 1 MA's), (401, 40651), (512, 40786), (519, 40804), (542, 40846), (555, 40867), (562, 40873), (583, 40915), (590, 40936), (601, 40957), (620, 40993), (652, 41050), (662, 41062), (679, 41092), (687, 41101), (716, 41152), (788, 41248), (790, 41251), (861, 41362), (904, 41410), (939, 41452), (951, 41479), (990, 41563), (1027, 41647), (1037, 41665), (1053, 41689), (1059, 41704), (1078, 41752), (1087, 41767), (1112, 41806), (1123, 41821), (1137, 41842), (1168, 41899),

Gene: TinSulphur_42 Start: 31120, Stop: 29732, Start Num: 319

Candidate Starts for TinSulphur_42:

(39, 31771), (163, 31417), (197, 31342), (Start: 319 @31120 has 153 MA's), (405, 30976), (Start: 408 @30970 has 1 MA's), (410, 30967), (471, 30853), (511, 30826), (547, 30766), (572, 30739), (577, 30736), (622, 30640), (644, 30598), (777, 30436), (781, 30427), (790, 30406), (797, 30391), (801, 30379), (817, 30331), (874, 30271), (927, 30175), (960, 30112), (982, 30058), (1023, 29974), (1024, 29968), (1031, 29956), (1077, 29860), (1109, 29806), (1112, 29803), (1128, 29779),

Gene: TinyMiny_42 Start: 26527, Stop: 28557, Start Num: 30

Candidate Starts for TinyMiny_42:

(13, 26383), (Start: 30 @26527 has 1 MA's), (66, 26617), (Start: 72 @26623 has 6 MA's), (122, 26770), (127, 26788), (129, 26797), (199, 26947), (283, 27073), (335, 27163), (339, 27172), (394, 27262), (415, 27304), (519, 27466), (624, 27652), (637, 27670), (650, 27685), (688, 27742), (726, 27802), (798, 27874), (881, 28012), (926, 28078), (940, 28108), (977, 28186), (1010, 28264), (1037, 28324), (1059, 28363), (1080, 28414), (1092, 28432), (1164, 28540),

Gene: Tinyman4_39 Start: 29477, Stop: 28092, Start Num: 319

Candidate Starts for Tinyman4_39:

(Start: 319 @29477 has 153 MA's), (443, 29264), (471, 29201), (508, 29180), (572, 29087), (577, 29084), (583, 29063), (590, 29042), (644, 28946), (781, 28775), (791, 28751), (797, 28739), (801, 28727), (805, 28715), (806, 28712), (811, 28694), (817, 28679), (874, 28619), (878, 28607), (883, 28595), (927, 28523), (940, 28493), (960, 28460), (1009, 28352), (1013, 28343), (1020, 28328), (1023, 28322), (1024, 28316), (1031, 28304), (1077, 28208), (1082, 28199), (1099, 28169), (1128, 28127),

Gene: Tipton_79 Start: 48637, Stop: 49824, Start Num: 318

Candidate Starts for Tipton_79:

(Start: 294 @48592 has 45 MA's), (Start: 297 @48598 has 15 MA's), (Start: 302 @48604 has 13 MA's), (Start: 318 @48637 has 13 MA's), (388, 48763), (455, 48895), (578, 49030), (587, 49060), (677, 49222), (680, 49228), (700, 49264), (781, 49366), (998, 49552), (1036, 49627), (1057, 49660), (1060, 49672), (1096, 49744),

Gene: Tokki_83 Start: 48580, Stop: 49767, Start Num: 318

Candidate Starts for Tokki_83:

(Start: 294 @48535 has 45 MA's), (Start: 297 @48541 has 15 MA's), (Start: 302 @48547 has 13 MA's), (Start: 318 @48580 has 13 MA's), (388, 48706), (455, 48838), (518, 48910), (578, 48973), (587, 49003), (677, 49165), (680, 49171), (700, 49207), (781, 49309), (998, 49495), (1036, 49570), (1057, 49603), (1060, 49615), (1096, 49687),

Gene: Tolls_54 Start: 38563, Stop: 37085, Start Num: 277

Candidate Starts for Tolls_54:

(Start: 277 @38563 has 49 MA's), (330, 38470), (Start: 343 @38443 has 1 MA's), (388, 38368), (Start: 408 @38326 has 1 MA's), (453, 38245), (577, 38113), (596, 38059), (602, 38047), (649, 37969), (740, 37855), (772, 37828), (781, 37804), (815, 37699), (830, 37678), (867, 37639), (875, 37621), (877, 37615), (939, 37504), (964, 37456), (971, 37438), (1013, 37342), (1023, 37321), (1036, 37291),

Gene: Tonaltzin_91 Start: 54855, Stop: 56069, Start Num: 295

Candidate Starts for Tonaltzin_91:

(Start: 295 @54855 has 213 MA's), (299, 54861), (Start: 327 @54915 has 23 MA's), (328, 54918), (333, 54930), (347, 54957), (349, 54960), (359, 54981), (392, 55023), (413, 55065), (433, 55098), (452, 55137), (518, 55215), (519, 55218), (578, 55278), (623, 55380), (639, 55410), (671, 55461), (677, 55470), (698, 55509), (700, 55512), (717, 55536), (725, 55548), (760, 55575), (765, 55584), (776, 55602), (779, 55611), (781, 55614), (784, 55623), (798, 55665), (807, 55692), (814, 55716), (865, 55746), (1018, 55833), (1068, 55941), (1096, 55992), (1115, 56019), (1138, 56052),

Gene: Tongui_40 Start: 25537, Stop: 27444, Start Num: 68

Candidate Starts for Tongui_40:

(17, 25363), (Start: 68 @25537 has 36 MA's), (93, 25600), (106, 25621), (122, 25675), (144, 25735), (191, 25837), (199, 25852), (229, 25897), (335, 26071), (339, 26080), (394, 26170), (Start: 395 @26173 has 1 MA's), (422, 26227), (543, 26413), (603, 26521), (620, 26548), (624, 26560), (777, 26722), (824, 26839), (1010, 27151), (1037, 27211), (1080, 27301), (1097, 27331), (1126, 27373), (1163, 27424),

Gene: TonyStarch_80 Start: 49150, Stop: 50334, Start Num: 295

Candidate Starts for TonyStarch_80:

(Start: 295 @49150 has 213 MA's), (Start: 318 @49195 has 13 MA's), (333, 49225), (455, 49396), (518, 49468), (547, 49507), (587, 49570), (677, 49732), (698, 49771), (701, 49777), (720, 49804), (781, 49876), (799, 49930), (807, 49954), (814, 49978), (817, 49984), (909, 50008), (978, 50014), (1036, 50128), (1086, 50227), (1089, 50233), (1107, 50263), (1115, 50272), (1153, 50326),

Gene: Tophat_91 Start: 59055, Stop: 60800, Start Num: 158

Candidate Starts for Tophat_91:

(Start: 158 @59055 has 18 MA's), (168, 59076), (205, 59154), (214, 59178), (236, 59223), (251, 59247), (Start: 278 @59286 has 3 MA's), (366, 59445), (Start: 375 @59454 has 28 MA's), (394, 59496), (405, 59517), (430, 59550), (435, 59556), (438, 59559), (444, 59574), (452, 59589), (527, 59676), (534, 59688), (538, 59694), (563, 59730), (578, 59754), (582, 59766), (652, 59898), (710, 59982), (724, 60003), (741, 60015), (759, 60030), (761, 60033), (777, 60057), (787, 60081), (793, 60093), (812, 60150), (856, 60195), (885, 60261), (893, 60273), (898, 60282), (907, 60306), (909, 60309), (928, 60345), (932, 60351), (940, 60375), (980, 60456), (981, 60462), (989, 60480), (998, 60507), (1002, 60513), (1019, 60543), (1021, 60549), (1053, 60609), (1073, 60660), (1076, 60666), (1099, 60705),

Gene: Tracker_72 Start: 55556, Stop: 53490, Start Num: 35

Candidate Starts for Tracker_72:

(8, 55760), (9, 55748), (11, 55730), (Start: 35 @55556 has 35 MA's), (Start: 89 @55418 has 2 MA's), (96, 55394), (175, 55190), (198, 55145), (269, 55037), (339, 54923), (341, 54920), (394, 54830), (Start: 395 @54827 has 1 MA's), (441, 54767), (542, 54629), (553, 54611), (573, 54587), (627, 54464), (688, 54359), (777, 54233), (796, 54179), (865, 54053), (876, 54044), (885, 54020), (939, 53948), (942, 53942), (956, 53912), (981, 53855), (1009, 53795), (1040, 53732), (1078, 53651),

Gene: Tredge_57 Start: 53221, Stop: 51518, Start Num: 206

Candidate Starts for Tredge_57:

(Start: 206 @53221 has 9 MA's), (Start: 209 @53209 has 2 MA's), (Start: 316 @53026 has 5 MA's), (Start: 375 @52936 has 28 MA's), (381, 52927), (Start: 395 @52891 has 1 MA's), (Start: 408 @52867

has 1 MA's), (412, 52858), (416, 52849), (443, 52801), (449, 52789), (453, 52777), (480, 52720), (483, 52705), (484, 52702), (485, 52684), (496, 52648), (498, 52645), (564, 52516), (568, 52513), (583, 52477), (584, 52474), (590, 52456), (595, 52447), (601, 52435), (621, 52387), (635, 52354), (665, 52306), (679, 52282), (714, 52216), (776, 52117), (811, 52018), (856, 51985), (857, 51982), (926, 51916), (951, 51865), (953, 51862), (982, 51805), (990, 51787), (1048, 51670), (1050, 51667), (1057, 51655), (1109, 51556), (1125, 51535),

Gene: Tribby_82 Start: 47346, Stop: 48656, Start Num: 295

Candidate Starts for Tribby_82:

(Start: 295 @47346 has 213 MA's), (578, 47784), (587, 47814), (622, 47883), (645, 47928), (671, 47967), (677, 47976), (695, 48006), (722, 48051), (725, 48054), (765, 48090), (776, 48108), (778, 48114), (779, 48117), (781, 48120), (785, 48132), (805, 48192), (814, 48222), (1079, 48465), (1089, 48483), (1138, 48555), (1162, 48591),

Gene: TripleC_39 Start: 29350, Stop: 27542, Start Num: 75

Candidate Starts for TripleC_39:

(48, 29395), (Start: 75 @29350 has 19 MA's), (90, 29290), (140, 29167), (174, 29089), (241, 28972), (248, 28960), (Start: 302 @28876 has 13 MA's), (438, 28738), (530, 28552), (583, 28459), (590, 28438), (648, 28333), (693, 28267), (700, 28252), (777, 28204), (814, 28135), (816, 28132), (818, 28129), (828, 28114), (875, 28075), (878, 28066), (888, 28048), (919, 28012), (920, 28009), (933, 27991), (940, 27973), (942, 27970), (958, 27937), (1013, 27817), (1027, 27784), (1044, 27757), (1063, 27709), (1114, 27619), (1149, 27568),

Gene: Triscuit_58 Start: 36727, Stop: 38280, Start Num: 272

Candidate Starts for Triscuit_58:

(Start: 272 @36727 has 1 MA's), (Start: 275 @36730 has 1 MA's), (330, 36826), (345, 36856), (370, 36895), (386, 36922), (391, 36937), (413, 36982), (418, 36991), (440, 37021), (504, 37105), (545, 37189), (552, 37198), (554, 37201), (622, 37321), (628, 37336), (684, 37423), (762, 37513), (811, 37636), (815, 37648), (882, 37735), (933, 37834), (939, 37852), (998, 37990), (1121, 38218), (1126, 38227), (1128, 38230),

Gene: TrixiePhattel_78 Start: 46130, Stop: 47374, Start Num: 294

Candidate Starts for TrixiePhattel_78:

(Start: 294 @46130 has 45 MA's), (388, 46304), (413, 46358), (455, 46436), (519, 46511), (578, 46571), (587, 46601), (590, 46610), (673, 46757), (677, 46763), (778, 46901), (781, 46907), (1096, 47282), (1107, 47300),

Gene: Trogglehumper_76 Start: 59717, Stop: 58170, Start Num: 303

Candidate Starts for Trogglehumper_76:

(237, 59828), (Start: 278 @59762 has 3 MA's), (Start: 303 @59717 has 4 MA's), (383, 59600), (Start: 395 @59567 has 1 MA's), (420, 59525), (424, 59519), (443, 59495), (472, 59429), (476, 59420), (478, 59417), (491, 59354), (503, 59315), (536, 59249), (578, 59183), (583, 59165), (587, 59153), (595, 59135), (613, 59087), (617, 59081), (665, 59003), (690, 58961), (698, 58943), (733, 58886), (744, 58877), (809, 58751), (856, 58709), (857, 58706), (867, 58685), (893, 58652), (919, 58595), (990, 58445), (998, 58421), (1025, 58370), (1069, 58280), (1086, 58241), (1104, 58220), (1114, 58208), (1116, 58205), (1125, 58193),

Gene: Troje_55 Start: 38986, Stop: 37508, Start Num: 277

Candidate Starts for Troje_55:

(Start: 277 @38986 has 49 MA's), (328, 38899), (330, 38893), (356, 38842), (388, 38791), (394, 38776), (443, 38692), (453, 38668), (456, 38659), (577, 38536), (596, 38482), (599, 38476), (602, 38470), (622, 38440), (649, 38392), (740, 38278), (772, 38251), (781, 38227), (808, 38146), (815, 38122), (830, 38101), (867, 38062), (875, 38044), (877, 38038), (939, 37927), (942, 37921), (964,

(37879), (971, 37861), (1009, 37774), (1013, 37765), (1023, 37744), (1036, 37714), (1055, 37684), (1066, 37651), (1121, 37561),

Gene: Troll4_53 Start: 39859, Stop: 41802, Start Num: 65

Candidate Starts for Troll4_53:

(Start: 65 @39859 has 24 MA's), (80, 39886), (104, 39958), (121, 40012), (140, 40072), (146, 40090), (151, 40099), (174, 40150), (193, 40192), (219, 40228), (269, 40315), (329, 40408), (335, 40423), (347, 40444), (414, 40546), (438, 40579), (450, 40603), (512, 40663), (562, 40750), (596, 40825), (652, 40915), (688, 40966), (690, 40969), (764, 41059), (777, 41077), (788, 41110), (810, 41164), (814, 41176), (824, 41194), (865, 41257), (939, 41341), (992, 41458), (1009, 41506), (1040, 41569), (1078, 41653),

Gene: Troy_45 Start: 36746, Stop: 38122, Start Num: 342

Candidate Starts for Troy_45:

(Start: 342 @36746 has 7 MA's), (Start: 387 @36815 has 1 MA's), (394, 36833), (444, 36926), (471, 36986), (500, 36992), (502, 36995), (574, 37115), (582, 37133), (642, 37250), (755, 37388), (780, 37427), (793, 37460), (795, 37466), (800, 37481), (811, 37520), (864, 37580), (875, 37604), (897, 37640), (940, 37709), (944, 37715), (982, 37796), (1026, 37892), (1033, 37904), (1039, 37916), (1064, 37973), (1067, 37979), (1073, 37991), (1091, 38021), (1125, 38072),

Gene: Truckee_73 Start: 48257, Stop: 49489, Start Num: 294

Candidate Starts for Truckee_73:

(Start: 294 @48257 has 45 MA's), (Start: 297 @48263 has 15 MA's), (Start: 302 @48269 has 13 MA's), (Start: 318 @48302 has 13 MA's), (385, 48419), (388, 48428), (455, 48560), (518, 48632), (578, 48695), (587, 48725), (645, 48839), (677, 48887), (680, 48893), (700, 48929), (781, 49031), (1036, 49292), (1057, 49325), (1060, 49337), (1061, 49340), (1096, 49409),

Gene: Trufflozitus_88 Start: 53974, Stop: 55194, Start Num: 295

Candidate Starts for Trufflozitus_88:

(Start: 295 @53974 has 213 MA's), (Start: 327 @54034 has 23 MA's), (328, 54037), (347, 54076), (359, 54100), (392, 54142), (413, 54184), (429, 54211), (433, 54217), (452, 54256), (455, 54262), (512, 54319), (518, 54334), (578, 54397), (623, 54499), (639, 54529), (650, 54547), (671, 54580), (673, 54583), (677, 54589), (717, 54655), (722, 54664), (725, 54667), (765, 54703), (773, 54712), (776, 54721), (781, 54733), (798, 54784), (799, 54787), (814, 54838), (819, 54847), (992, 54916), (1018, 54955), (1068, 55063), (1086, 55096), (1096, 55114), (1105, 55129),

Gene: Trustiboi_70 Start: 48111, Stop: 49361, Start Num: 294

Candidate Starts for Trustiboi_70:

(Start: 294 @48111 has 45 MA's), (299, 48120), (Start: 318 @48159 has 13 MA's), (358, 48237), (388, 48285), (Start: 395 @48303 has 1 MA's), (455, 48417), (518, 48489), (578, 48552), (587, 48582), (622, 48651), (677, 48744), (680, 48750), (700, 48786), (781, 48888), (1013, 49095), (1036, 49146), (1047, 49161), (1057, 49179), (1060, 49191), (1061, 49194), (1096, 49263),

Gene: TurboVicky_33 Start: 23252, Stop: 24679, Start Num: 298

Candidate Starts for TurboVicky_33:

(270, 23210), (Start: 298 @23252 has 19 MA's), (464, 23570), (583, 23717), (590, 23738), (740, 24005), (777, 24053), (785, 24074), (808, 24131), (821, 24164), (903, 24200), (944, 24278), (953, 24299), (991, 24380), (992, 24383), (1034, 24470), (1043, 24482), (1061, 24521), (1072, 24557), (1075, 24563), (1082, 24575), (1134, 24638),

Gene: Turuncu_75 Start: 56841, Stop: 54784, Start Num: 35

Candidate Starts for Turuncu_75:

(6, 57126), (11, 57009), (14, 56991), (Start: 35 @56841 has 35 MA's), (269, 56328), (Start: 306 @56274 has 28 MA's), (329, 56238), (341, 56211), (389, 56133), (394, 56121), (441, 56058), (443, 56052), (520, 55959), (542, 55920), (553, 55902), (627, 55755), (645, 55722), (666, 55692), (670, 55686), (688, 55659), (777, 55536), (805, 55467), (810, 55449), (876, 55344), (879, 55335), (921, 55275), (942, 55236), (956, 55206), (968, 55188), (981, 55149), (1009, 55089), (1023, 55059), (1040, 55026), (1060, 54984), (1157, 54828),

Gene: TwoBits_39 Start: 29510, Stop: 28083, Start Num: 319

Candidate Starts for TwoBits_39:

(Start: 319 @29510 has 153 MA's), (336, 29480), (339, 29474), (Start: 387 @29402 has 1 MA's), (407, 29363), (Start: 408 @29360 has 1 MA's), (410, 29357), (443, 29297), (572, 29120), (577, 29117), (615, 29024), (661, 28955), (727, 28862), (781, 28805), (801, 28757), (805, 28745), (811, 28724), (860, 28643), (874, 28610), (903, 28556), (905, 28550), (927, 28514), (929, 28511), (960, 28451), (1009, 28343), (1013, 28334), (1020, 28319), (1023, 28313), (1031, 28295), (1082, 28190), (1128, 28118),

Gene: Typher_35 Start: 23381, Stop: 24808, Start Num: 298

Candidate Starts for Typher_35:

(270, 23339), (Start: 298 @23381 has 19 MA's), (464, 23699), (547, 23801), (583, 23846), (590, 23867), (740, 24134), (777, 24182), (785, 24203), (808, 24260), (821, 24293), (903, 24329), (944, 24407), (953, 24428), (991, 24509), (992, 24512), (1034, 24599), (1043, 24611), (1061, 24650), (1072, 24686), (1082, 24704), (1134, 24767),

Gene: Typhonomachy_52 Start: 38552, Stop: 37074, Start Num: 277

Candidate Starts for Typhonomachy_52:

(Start: 277 @38552 has 49 MA's), (328, 38465), (330, 38459), (379, 38378), (388, 38357), (454, 38231), (596, 38048), (599, 38042), (602, 38036), (649, 37958), (740, 37844), (772, 37817), (781, 37793), (801, 37733), (815, 37688), (830, 37667), (867, 37628), (875, 37610), (939, 37493), (964, 37445), (966, 37442), (971, 37427), (1013, 37331), (1023, 37310), (1036, 37280),

Gene: UNTPL_44 Start: 31380, Stop: 32774, Start Num: 302

Candidate Starts for UNTPL_44:

(Start: 302 @31380 has 13 MA's), (Start: 303 @31383 has 4 MA's), (339, 31458), (353, 31482), (381, 31512), (Start: 387 @31527 has 1 MA's), (440, 31617), (459, 31653), (547, 31752), (554, 31761), (596, 31830), (651, 31953), (740, 32088), (764, 32115), (777, 32136), (808, 32214), (821, 32247), (827, 32256), (912, 32298), (942, 32364), (953, 32388), (963, 32406), (971, 32424), (992, 32478), (1009, 32508), (1034, 32565), (1036, 32568), (1061, 32616), (1074, 32655), (1082, 32670), (1138, 32739), (1150, 32757), (1156, 32766),

Gene: Untouchable_88 Start: 55472, Stop: 56686, Start Num: 295

Candidate Starts for Untouchable_88:

(Start: 295 @55472 has 213 MA's), (299, 55478), (Start: 327 @55532 has 23 MA's), (328, 55535), (333, 55547), (358, 55595), (359, 55598), (392, 55640), (413, 55682), (429, 55709), (433, 55715), (452, 55754), (518, 55832), (519, 55835), (578, 55895), (623, 55997), (639, 56027), (671, 56078), (677, 56087), (695, 56117), (698, 56126), (715, 56150), (717, 56153), (720, 56159), (725, 56165), (760, 56192), (765, 56201), (776, 56219), (779, 56228), (781, 56231), (784, 56240), (798, 56282), (799, 56285), (807, 56309), (814, 56333), (865, 56363), (910, 56378), (992, 56411), (1018, 56450), (1036, 56492), (1096, 56609), (1115, 56636), (1138, 56669),

Gene: Urla_26 Start: 21745, Stop: 23142, Start Num: 295

Candidate Starts for Urla_26:

(Start: 295 @21745 has 213 MA's), (328, 21805), (Start: 387 @21910 has 1 MA's), (429, 21997), (452, 22030), (509, 22081), (512, 22087), (575, 22168), (580, 22177), (590, 22213), (599, 22231), (601, 22234), (610, 22267), (620, 22288), (676, 22369), (704, 22420), (719, 22447), (754, 22477), (761,

22486), (775, 22507), (777, 22513), (788, 22546), (794, 22561), (797, 22570), (821, 22621), (866, 22651), (942, 22732), (963, 22774), (977, 22807), (1003, 22870), (1017, 22891), (1019, 22897), (1024, 22912), (1034, 22933), (1072, 23020), (1117, 23077), (1140, 23110),

Gene: Uterion_82 Start: 49462, Stop: 47939, Start Num: 292

Candidate Starts for Uterion_82:

(159, 49723), (177, 49681), (Start: 292 @49462 has 28 MA's), (347, 49351), (374, 49312), (383, 49303), (399, 49264), (429, 49207), (451, 49165), (457, 49147), (511, 49093), (535, 49048), (537, 49045), (592, 48943), (661, 48820), (683, 48784), (707, 48745), (767, 48679), (781, 48652), (787, 48634), (798, 48604), (819, 48544), (840, 48514), (848, 48502), (850, 48496), (1010, 48187), (1019, 48169), (1037, 48127), (1042, 48121), (1053, 48103), (1054, 48100), (1124, 47974),

Gene: Uzumaki_75 Start: 45845, Stop: 47092, Start Num: 294

Candidate Starts for Uzumaki_75:

(Start: 294 @45845 has 45 MA's), (Start: 384 @46007 has 1 MA's), (388, 46019), (413, 46073), (455, 46151), (519, 46226), (587, 46316), (590, 46325), (639, 46418), (677, 46478), (722, 46553), (781, 46622), (1096, 46997), (1107, 47015),

Gene: Vallejo_29 Start: 22089, Stop: 23489, Start Num: 295

Candidate Starts for Vallejo_29:

(Start: 295 @22089 has 213 MA's), (328, 22152), (Start: 387 @22257 has 1 MA's), (388, 22260), (429, 22344), (452, 22377), (509, 22428), (512, 22434), (575, 22515), (577, 22518), (580, 22524), (590, 22560), (599, 22578), (601, 22581), (610, 22614), (620, 22635), (627, 22653), (650, 22686), (704, 22767), (719, 22794), (754, 22824), (761, 22833), (777, 22860), (788, 22893), (794, 22908), (817, 22962), (860, 22983), (865, 22995), (904, 23007), (1012, 23229), (1017, 23238), (1019, 23244), (1034, 23280), (1063, 23340), (1072, 23367), (1140, 23457),

Gene: Vardy_85 Start: 53995, Stop: 55209, Start Num: 295

Candidate Starts for Vardy_85:

(Start: 295 @53995 has 213 MA's), (299, 54001), (Start: 327 @54055 has 23 MA's), (328, 54058), (333, 54070), (359, 54121), (392, 54163), (413, 54205), (433, 54238), (452, 54277), (455, 54283), (518, 54355), (519, 54358), (578, 54418), (623, 54520), (639, 54550), (657, 54577), (671, 54601), (677, 54610), (695, 54640), (698, 54649), (700, 54652), (717, 54676), (725, 54688), (760, 54715), (765, 54724), (776, 54742), (779, 54751), (781, 54754), (784, 54763), (795, 54796), (799, 54808), (807, 54832), (814, 54856), (910, 54901), (1009, 54955), (1012, 54961), (1018, 54973), (1068, 55081), (1096, 55132), (1115, 55159), (1138, 55192),

Gene: Velene_41 Start: 31119, Stop: 29731, Start Num: 319

Candidate Starts for Velene_41:

(39, 31770), (163, 31416), (197, 31341), (Start: 319 @31119 has 153 MA's), (405, 30975), (Start: 408 @30969 has 1 MA's), (410, 30966), (471, 30852), (511, 30825), (547, 30765), (572, 30738), (577, 30735), (622, 30639), (644, 30597), (781, 30426), (790, 30405), (801, 30378), (817, 30330), (874, 30270), (960, 30111), (982, 30057), (1023, 29973), (1024, 29967), (1031, 29955), (1077, 29859), (1109, 29805), (1112, 29802), (1128, 29778),

Gene: Vine_59 Start: 41084, Stop: 39606, Start Num: 277

Candidate Starts for Vine_59:

(217, 41162), (248, 41111), (Start: 250 @41108 has 2 MA's), (Start: 277 @41084 has 49 MA's), (312, 41021), (328, 41000), (330, 40994), (Start: 343 @40967 has 1 MA's), (379, 40913), (394, 40877), (401, 40862), (453, 40766), (456, 40757), (465, 40736), (532, 40670), (577, 40634), (596, 40580), (599, 40574), (602, 40568), (649, 40490), (661, 40475), (740, 40376), (788, 40301), (797, 40277), (801, 40265), (808, 40244), (812, 40229), (815, 40220), (830, 40199), (867, 40160), (870, 40151), (877, 40136), (907, 40085), (940, 40016), (942, 40013), (964, 39971), (971, 39953), (1013, 39857), (1036,

39806), (1055, 39776), (1066, 39743), (1097, 39686), (1106, 39671),

Gene: Virizion_75 Start: 50499, Stop: 48628, Start Num: 73

Candidate Starts for Virizion_75:

(Start: 61 @50514 has 8 MA's), (73, 50499), (93, 50436), (97, 50427), (137, 50322), (152, 50283), (161, 50259), (199, 50184), (219, 50160), (312, 50001), (335, 49962), (339, 49953), (402, 49845), (462, 49737), (512, 49689), (577, 49584), (595, 49533), (624, 49473), (672, 49407), (687, 49386), (688, 49383), (788, 49278), (792, 49269), (796, 49257), (865, 49158), (951, 49041), (958, 49029), (971, 49002), (1010, 48912), (1018, 48897), (1044, 48843), (1068, 48786), (1137, 48678), (1149, 48660),

Gene: Visconti_54 Start: 39739, Stop: 41682, Start Num: 65

Candidate Starts for Visconti_54:

(Start: 65 @39739 has 24 MA's), (80, 39766), (104, 39838), (121, 39892), (140, 39952), (146, 39970), (151, 39979), (174, 40030), (193, 40072), (219, 40108), (269, 40195), (329, 40288), (335, 40303), (347, 40324), (414, 40426), (438, 40459), (450, 40483), (512, 40543), (562, 40630), (596, 40705), (652, 40795), (688, 40846), (690, 40849), (764, 40939), (777, 40957), (788, 40990), (810, 41044), (814, 41056), (824, 41074), (865, 41137), (939, 41221), (992, 41338), (1009, 41386), (1040, 41449), (1078, 41533),

Gene: Vispitious_41 Start: 31121, Stop: 29733, Start Num: 319

Candidate Starts for Vispitious_41:

(39, 31772), (163, 31418), (197, 31343), (Start: 319 @31121 has 153 MA's), (405, 30977), (Start: 408 @30971 has 1 MA's), (410, 30968), (471, 30854), (511, 30827), (547, 30767), (572, 30740), (577, 30737), (622, 30641), (644, 30599), (781, 30428), (790, 30407), (801, 30380), (817, 30332), (874, 30272), (960, 30113), (982, 30059), (1023, 29975), (1024, 29969), (1031, 29957), (1077, 29861), (1109, 29807), (1112, 29804), (1128, 29780),

Gene: Vitaenoi_57 Start: 53928, Stop: 52234, Start Num: 206

Candidate Starts for Vitaenoi_57:

(Start: 206 @53928 has 9 MA's), (Start: 209 @53916 has 2 MA's), (Start: 273 @53796 has 1 MA's), (300, 53763), (Start: 316 @53733 has 5 MA's), (381, 53634), (Start: 395 @53598 has 1 MA's), (Start: 408 @53574 has 1 MA's), (412, 53565), (416, 53556), (443, 53508), (444, 53505), (448, 53499), (449, 53496), (491, 53373), (498, 53352), (521, 53292), (568, 53220), (580, 53199), (583, 53184), (584, 53181), (587, 53172), (665, 53013), (695, 52962), (700, 52950), (703, 52944), (714, 52923), (753, 52878), (776, 52833), (791, 52791), (811, 52734), (827, 52704), (856, 52701), (857, 52698), (907, 52644), (982, 52521), (990, 52503), (1048, 52386), (1050, 52383), (1057, 52371), (1125, 52251),

Gene: Vulture_26 Start: 21745, Stop: 23139, Start Num: 295

Candidate Starts for Vulture_26:

(Start: 295 @21745 has 213 MA's), (328, 21802), (379, 21889), (Start: 387 @21907 has 1 MA's), (388, 21910), (429, 21994), (452, 22027), (509, 22078), (512, 22084), (547, 22144), (580, 22174), (590, 22210), (599, 22228), (610, 22264), (620, 22285), (627, 22303), (630, 22309), (650, 22336), (704, 22417), (719, 22444), (742, 22468), (761, 22483), (777, 22510), (788, 22543), (794, 22558), (940, 22726), (953, 22753), (961, 22765), (969, 22783), (1009, 22873), (1012, 22879), (1019, 22894), (1020, 22897), (1034, 22930), (1063, 22990), (1072, 23017), (1117, 23074), (1140, 23107), (1156, 23131),

Gene: WaddleDee_88 Start: 75744, Stop: 77588, Start Num: 71

Candidate Starts for WaddleDee_88:

(Start: 71 @75744 has 13 MA's), (169, 76017), (248, 76125), (Start: 293 @76191 has 5 MA's), (329, 76260), (333, 76269), (438, 76344), (601, 76653), (623, 76698), (648, 76737), (665, 76758), (693, 76803), (730, 76860), (777, 76866), (788, 76899), (793, 76911), (797, 76923), (878, 77040), (881, 77046), (940, 77136), (956, 77169), (993, 77253), (1040, 77346), (1054, 77370), (1147, 77538), (1149,

77541),

Gene: WaldoWhy_55 Start: 39836, Stop: 41779, Start Num: 65

Candidate Starts for WaldoWhy_55:

(Start: 65 @39836 has 24 MA's), (80, 39863), (104, 39935), (121, 39989), (140, 40049), (146, 40067), (151, 40076), (174, 40127), (193, 40169), (219, 40205), (269, 40292), (329, 40385), (335, 40400), (347, 40421), (414, 40523), (438, 40556), (450, 40580), (512, 40640), (562, 40727), (596, 40802), (652, 40892), (688, 40943), (690, 40946), (764, 41036), (777, 41054), (788, 41087), (810, 41141), (814, 41153), (824, 41171), (865, 41234), (939, 41318), (992, 41435), (1009, 41483), (1040, 41546), (1078, 41630),

Gene: Wallaby_51 Start: 37932, Stop: 36442, Start Num: 277

Candidate Starts for Wallaby_51:

(Start: 277 @37932 has 49 MA's), (330, 37842), (Start: 343 @37815 has 1 MA's), (370, 37773), (394, 37725), (Start: 408 @37698 has 1 MA's), (453, 37617), (454, 37614), (456, 37608), (465, 37587), (532, 37521), (596, 37431), (602, 37419), (639, 37356), (649, 37341), (661, 37326), (762, 37209), (772, 37200), (799, 37122), (808, 37095), (811, 37083), (815, 37071), (857, 37032), (867, 37011), (868, 37008), (875, 36993), (907, 36921), (940, 36852), (964, 36807), (981, 36762), (988, 36747), (998, 36717), (1013, 36693), (1036, 36642), (1055, 36612), (1085, 36546), (1097, 36522), (1121, 36489), (1146, 36453),

Gene: Waltz_91 Start: 53322, Stop: 54977, Start Num: 185

Candidate Starts for Waltz_91:

(Start: 185 @53322 has 9 MA's), (216, 53385), (219, 53394), (263, 53478), (361, 53646), (421, 53739), (443, 53775), (471, 53829), (531, 53880), (550, 53916), (577, 53943), (586, 53970), (599, 54003), (603, 54012), (677, 54129), (728, 54207), (755, 54225), (783, 54276), (796, 54309), (806, 54342), (832, 54390), (866, 54426), (882, 54468), (939, 54579), (948, 54597), (963, 54624), (975, 54651), (1006, 54726), (1020, 54753), (1058, 54819), (1062, 54834), (1065, 54843), (1067, 54846), (1082, 54873), (1086, 54879), (1122, 54930), (1136, 54951), (1147, 54966),

Gene: Wardwill_42 Start: 29255, Stop: 27828, Start Num: 319

Candidate Starts for Wardwill_42:

(Start: 319 @29255 has 153 MA's), (336, 29225), (339, 29219), (Start: 408 @29105 has 1 MA's), (410, 29102), (411, 29099), (572, 28865), (577, 28862), (727, 28607), (762, 28583), (778, 28556), (781, 28550), (801, 28502), (811, 28469), (874, 28355), (877, 28346), (903, 28301), (905, 28295), (920, 28268), (960, 28196), (991, 28124), (1009, 28088), (1013, 28079), (1020, 28064), (1023, 28058), (1031, 28040), (1055, 27998), (1082, 27935), (1128, 27863),

Gene: WaterT_90 Start: 50077, Stop: 48617, Start Num: 293

Candidate Starts for WaterT_90:

(Start: 293 @50077 has 5 MA's), (Start: 305 @50047 has 1 MA's), (371, 49933), (414, 49849), (506, 49723), (517, 49699), (569, 49621), (576, 49609), (579, 49603), (581, 49597), (585, 49582), (594, 49561), (631, 49486), (641, 49468), (699, 49372), (707, 49363), (785, 49258), (808, 49228), (809, 49225), (810, 49219), (814, 49207), (815, 49204), (853, 49144), (860, 49135), (906, 49045), (936, 48991), (954, 48955), (1005, 48874), (1006, 48871), (1010, 48868), (1015, 48859), (1054, 48781), (1057, 48775), (1095, 48697), (1108, 48676), (1127, 48649), (1130, 48646), (1139, 48634),

Gene: Wawa_29 Start: 22126, Stop: 23526, Start Num: 295

Candidate Starts for Wawa_29:

(Start: 295 @22126 has 213 MA's), (328, 22189), (Start: 387 @22294 has 1 MA's), (388, 22297), (429, 22381), (452, 22414), (509, 22465), (512, 22471), (575, 22552), (577, 22555), (580, 22561), (590, 22597), (599, 22615), (601, 22618), (610, 22651), (620, 22672), (627, 22690), (650, 22723), (704, 22804), (719, 22831), (754, 22861), (761, 22870), (777, 22897), (788, 22930), (794, 22945), (817,

22999), (860, 23020), (865, 23032), (904, 23044), (963, 23158), (1012, 23266), (1017, 23275), (1019, 23281), (1034, 23317), (1063, 23377), (1072, 23404), (1140, 23494),

Gene: Wayne_29 Start: 22211, Stop: 23605, Start Num: 295

Candidate Starts for Wayne_29:

(Start: 295 @22211 has 213 MA's), (328, 22268), (Start: 387 @22373 has 1 MA's), (429, 22460), (509, 22544), (511, 22547), (512, 22550), (580, 22640), (590, 22676), (595, 22685), (599, 22694), (620, 22751), (627, 22769), (650, 22802), (660, 22814), (704, 22883), (719, 22910), (742, 22934), (777, 22976), (788, 23009), (794, 23024), (797, 23033), (904, 23123), (940, 23192), (953, 23219), (963, 23237), (969, 23249), (1009, 23339), (1012, 23345), (1017, 23354), (1019, 23360), (1034, 23396), (1072, 23483), (1113, 23534), (1140, 23573), (1156, 23597),

Gene: Weiss13_66 Start: 47645, Stop: 49405, Start Num: 183

Candidate Starts for Weiss13_66:

(Start: 183 @47645 has 10 MA's), (226, 47714), (Start: 294 @47810 has 45 MA's), (299, 47819), (Start: 342 @47900 has 7 MA's), (373, 47945), (509, 48146), (534, 48194), (573, 48254), (580, 48266), (605, 48332), (672, 48455), (688, 48479), (700, 48503), (777, 48707), (788, 48740), (794, 48755), (810, 48794), (811, 48797), (814, 48806), (865, 48875), (965, 49007), (1009, 49130), (1010, 49133), (1023, 49160), (1037, 49190), (1042, 49196), (1044, 49199), (1054, 49217), (1059, 49229), (1137, 49364), (1159, 49394),

Gene: Welcome_86 Start: 50242, Stop: 48722, Start Num: 292

Candidate Starts for Welcome_86:

(265, 50275), (Start: 292 @50242 has 28 MA's), (Start: 315 @50191 has 2 MA's), (383, 50083), (412, 50017), (449, 49951), (541, 49813), (578, 49756), (590, 49723), (592, 49720), (623, 49657), (653, 49606), (661, 49597), (665, 49588), (668, 49582), (686, 49558), (697, 49534), (723, 49495), (745, 49480), (781, 49429), (821, 49318), (840, 49291), (865, 49246), (1019, 48952), (1032, 48922), (1057, 48877), (1077, 48826), (1105, 48781), (1120, 48763),

Gene: Wentworth_70 Start: 50269, Stop: 48383, Start Num: 61

Candidate Starts for Wentworth_70:

(34, 50335), (Start: 38 @50326 has 1 MA's), (44, 50305), (56, 50272), (Start: 61 @50269 has 8 MA's), (73, 50254), (93, 50191), (97, 50182), (106, 50170), (119, 50122), (129, 50089), (137, 50077), (144, 50056), (161, 50014), (199, 49939), (219, 49915), (335, 49717), (339, 49708), (370, 49663), (402, 49600), (462, 49492), (512, 49444), (577, 49339), (595, 49288), (624, 49228), (687, 49141), (688, 49138), (788, 49033), (792, 49024), (796, 49012), (865, 48913), (951, 48796), (958, 48784), (971, 48757), (973, 48751), (1010, 48667), (1044, 48598), (1068, 48541), (1078, 48523), (1112, 48469), (1149, 48415),

Gene: WestPM_37 Start: 29337, Stop: 27952, Start Num: 314

Candidate Starts for WestPM_37:

(Start: 314 @29337 has 1 MA's), (443, 29124), (471, 29061), (508, 29040), (572, 28947), (577, 28944), (583, 28923), (590, 28902), (644, 28806), (727, 28692), (762, 28668), (781, 28635), (791, 28611), (797, 28599), (801, 28587), (805, 28575), (806, 28572), (811, 28554), (860, 28512), (874, 28479), (878, 28467), (883, 28455), (927, 28383), (1009, 28212), (1013, 28203), (1020, 28188), (1023, 28182), (1024, 28176), (1077, 28068), (1082, 28059), (1099, 28029), (1123, 27996), (1128, 27987),

Gene: Westerlin_69 Start: 49204, Stop: 50427, Start Num: 299

Candidate Starts for Westerlin_69:

(Start: 292 @49189 has 28 MA's), (Start: 294 @49195 has 45 MA's), (299, 49204), (312, 49234), (Start: 318 @49243 has 13 MA's), (358, 49321), (388, 49369), (Start: 395 @49387 has 1 MA's), (455, 49501), (518, 49573), (578, 49636), (587, 49666), (622, 49735), (677, 49828), (680, 49834), (700, 49870), (781, 49972), (992, 50149), (1013, 50179), (1036, 50230), (1060, 50275), (1061, 50278),

(1096, 50347), (1107, 50365),

Gene: Wheelbite_90 Start: 54992, Stop: 56656, Start Num: 185

Candidate Starts for Wheelbite_90:

(Start: 185 @54992 has 9 MA's), (216, 55055), (219, 55064), (265, 55151), (Start: 295 @55196 has 213 MA's), (361, 55316), (421, 55409), (438, 55433), (443, 55445), (471, 55499), (531, 55550), (550, 55586), (577, 55613), (583, 55634), (586, 55640), (603, 55682), (677, 55799), (728, 55877), (755, 55895), (783, 55946), (796, 55979), (806, 56012), (852, 56069), (866, 56096), (882, 56138), (921, 56219), (939, 56249), (948, 56267), (963, 56294), (975, 56321), (1006, 56396), (1020, 56423), (1024, 56435), (1062, 56504), (1064, 56510), (1065, 56513), (1067, 56516), (1082, 56543), (1086, 56549), (1109, 56585), (1122, 56600), (1132, 56615), (1147, 56636),

Gene: Wheezy_72 Start: 55632, Stop: 53704, Start Num: 89

Candidate Starts for Wheezy_72:

(8, 55974), (9, 55962), (11, 55944), (Start: 35 @55770 has 35 MA's), (Start: 89 @55632 has 2 MA's), (96, 55608), (175, 55404), (198, 55359), (269, 55251), (339, 55137), (341, 55134), (394, 55044), (Start: 395 @55041 has 1 MA's), (441, 54981), (542, 54843), (553, 54825), (573, 54801), (627, 54678), (688, 54573), (777, 54447), (796, 54393), (865, 54267), (876, 54258), (885, 54234), (939, 54162), (942, 54156), (956, 54126), (981, 54069), (1009, 54009), (1040, 53946), (1078, 53865),

Gene: WhoseManz_71 Start: 52415, Stop: 50334, Start Num: 35

Candidate Starts for WhoseManz_71:

(9, 52607), (11, 52589), (16, 52514), (Start: 35 @52415 has 35 MA's), (269, 51896), (Start: 297 @51863 has 15 MA's), (Start: 306 @51842 has 28 MA's), (336, 51788), (339, 51782), (341, 51779), (394, 51689), (Start: 395 @51686 has 1 MA's), (441, 51626), (553, 51470), (627, 51323), (688, 51215), (700, 51191), (777, 51089), (796, 51035), (805, 51020), (847, 50939), (876, 50900), (919, 50837), (939, 50798), (942, 50792), (956, 50762), (1009, 50645), (1040, 50582), (1068, 50519), (1078, 50501), (1133, 50417),

Gene: Wigberry_84 Start: 50233, Stop: 51690, Start Num: 295

Candidate Starts for Wigberry_84:

(Start: 295 @50233 has 213 MA's), (399, 50377), (454, 50476), (587, 50653), (623, 50725), (677, 50815), (701, 50860), (715, 50878), (781, 50959), (794, 50998), (795, 51001), (807, 51037), (817, 51067), (865, 51118), (930, 51253), (945, 51289), (977, 51358), (1009, 51415), (1038, 51478), (1063, 51532), (1068, 51541), (1086, 51574), (1087, 51577), (1089, 51580), (1105, 51607), (1115, 51619), (1117, 51622), (1141, 51655), (1153, 51673),

Gene: WildNOut_41 Start: 31117, Stop: 29729, Start Num: 319

Candidate Starts for WildNOut_41:

(39, 31768), (163, 31414), (197, 31339), (Start: 319 @31117 has 153 MA's), (405, 30973), (Start: 408 @30967 has 1 MA's), (410, 30964), (471, 30850), (511, 30823), (547, 30763), (572, 30736), (577, 30733), (622, 30637), (644, 30595), (781, 30424), (790, 30403), (801, 30376), (817, 30328), (874, 30268), (960, 30109), (982, 30055), (1023, 29971), (1024, 29965), (1031, 29953), (1077, 29857), (1109, 29803), (1112, 29800), (1128, 29776),

Gene: Wilkos_72 Start: 50432, Stop: 48546, Start Num: 61

Candidate Starts for Wilkos_72:

(28, 50525), (34, 50498), (Start: 38 @50489 has 1 MA's), (44, 50468), (56, 50435), (Start: 61 @50432 has 8 MA's), (73, 50417), (93, 50354), (97, 50345), (106, 50333), (119, 50285), (129, 50252), (137, 50240), (144, 50219), (161, 50177), (199, 50102), (263, 49994), (299, 49949), (335, 49880), (339, 49871), (402, 49763), (512, 49607), (561, 49523), (577, 49502), (595, 49451), (624, 49391), (688, 49301), (721, 49247), (788, 49196), (792, 49187), (796, 49175), (810, 49142), (865, 49076), (958, 48947), (971, 48920), (973, 48914), (1010, 48830), (1044, 48761), (1053, 48746), (1068, 48704),

(1078, 48686), (1112, 48632), (1149, 48578),

Gene: WilliamStrong_40 Start: 30915, Stop: 29497, Start Num: 319

Candidate Starts for WilliamStrong_40:

(Start: 319 @30915 has 153 MA's), (Start: 327 @30909 has 23 MA's), (336, 30885), (Start: 387 @30807 has 1 MA's), (407, 30768), (Start: 408 @30765 has 1 MA's), (443, 30702), (464, 30651), (504, 30630), (511, 30612), (536, 30573), (572, 30525), (577, 30522), (578, 30519), (590, 30480), (615, 30429), (727, 30267), (777, 30219), (778, 30216), (781, 30210), (790, 30189), (805, 30150), (811, 30129), (874, 30015), (878, 30003), (903, 29961), (920, 29928), (927, 29919), (960, 29856), (1009, 29748), (1013, 29739), (1020, 29724), (1023, 29718), (1024, 29712), (1031, 29700), (1093, 29577), (1099, 29565),

Gene: Winzigespinne_40 Start: 30802, Stop: 29414, Start Num: 319

Candidate Starts for Winzigespinne_40:

(197, 31024), (Start: 319 @30802 has 153 MA's), (405, 30658), (Start: 408 @30652 has 1 MA's), (410, 30649), (471, 30535), (511, 30508), (547, 30448), (572, 30421), (577, 30418), (622, 30322), (644, 30280), (781, 30109), (790, 30088), (797, 30073), (801, 30061), (817, 30013), (874, 29953), (927, 29857), (960, 29794), (982, 29740), (1023, 29656), (1024, 29650), (1031, 29638), (1066, 29563), (1109, 29488), (1112, 29485), (1128, 29461),

Gene: Woes_57 Start: 53248, Stop: 51707, Start Num: 290

Candidate Starts for Woes_57:

(177, 53467), (233, 53338), (288, 53251), (Start: 290 @53248 has 3 MA's), (Start: 375 @53119 has 28 MA's), (Start: 395 @53074 has 1 MA's), (443, 52984), (444, 52981), (448, 52975), (455, 52954), (483, 52891), (516, 52783), (525, 52765), (580, 52678), (583, 52663), (601, 52621), (635, 52540), (665, 52492), (690, 52450), (698, 52432), (700, 52429), (714, 52402), (758, 52351), (776, 52315), (794, 52264), (857, 52180), (867, 52159), (982, 52003), (985, 51997), (990, 51985), (1055, 51859), (1109, 51745),

Gene: Wojtek_56 Start: 39665, Stop: 41593, Start Num: 55

Candidate Starts for Wojtek_56:

(25, 39569), (29, 39578), (31, 39590), (41, 39620), (Start: 51 @39653 has 11 MA's), (Start: 55 @39665 has 13 MA's), (Start: 60 @39671 has 1 MA's), (Start: 76 @39689 has 2 MA's), (81, 39704), (Start: 89 @39737 has 2 MA's), (Start: 103 @39770 has 1 MA's), (105, 39773), (125, 39839), (151, 39911), (155, 39929), (166, 39947), (172, 39956), (175, 39965), (219, 40037), (Start: 297 @40157 has 15 MA's), (299, 40160), (331, 40220), (340, 40238), (Start: 387 @40310 has 1 MA's), (401, 40337), (512, 40472), (519, 40490), (542, 40532), (555, 40553), (562, 40559), (583, 40601), (590, 40622), (601, 40643), (620, 40679), (652, 40736), (662, 40748), (679, 40778), (687, 40787), (716, 40838), (788, 40934), (790, 40937), (861, 41048), (939, 41138), (951, 41165), (992, 41255), (1027, 41333), (1037, 41351), (1053, 41375), (1059, 41390), (1112, 41492), (1123, 41507), (1137, 41528),

Gene: Wolfstar_82 Start: 50847, Stop: 49330, Start Num: 294

Candidate Starts for Wolfstar_82:

(126, 51207), (265, 50889), (Start: 294 @50847 has 45 MA's), (374, 50703), (383, 50694), (429, 50598), (448, 50565), (511, 50484), (535, 50439), (537, 50436), (592, 50334), (661, 50211), (665, 50202), (707, 50136), (815, 49941), (819, 49935), (840, 49905), (844, 49899), (848, 49893), (936, 49722), (1019, 49560), (1042, 49512), (1083, 49428), (1105, 49389), (1124, 49365),

Gene: Wolfwood_49 Start: 37906, Stop: 36416, Start Num: 277

Candidate Starts for Wolfwood_49:

(Start: 277 @37906 has 49 MA's), (330, 37816), (Start: 343 @37789 has 1 MA's), (370, 37747), (394, 37699), (Start: 408 @37672 has 1 MA's), (453, 37591), (454, 37588), (456, 37582), (465, 37561), (532, 37495), (596, 37405), (602, 37393), (639, 37330), (649, 37315), (661, 37300), (762, 37183), (772,

37174), (799, 37096), (808, 37069), (811, 37057), (815, 37045), (857, 37006), (867, 36985), (868, 36982), (875, 36967), (907, 36895), (940, 36826), (964, 36781), (981, 36736), (988, 36721), (998, 36691), (1013, 36667), (1036, 36616), (1055, 36586), (1085, 36520), (1097, 36496), (1121, 36463), (1146, 36427),

Gene: Wollypog_43 Start: 30596, Stop: 32524, Start Num: 68

Candidate Starts for Wollypog_43:

(Start: 68 @30596 has 36 MA's), (80, 30620), (122, 30746), (140, 30794), (161, 30848), (193, 30911), (199, 30923), (269, 31034), (312, 31100), (Start: 315 @31106 has 2 MA's), (373, 31199), (388, 31229), (394, 31244), (398, 31250), (571, 31514), (590, 31562), (596, 31574), (620, 31619), (666, 31688), (679, 31709), (788, 31829), (814, 31895), (839, 31934), (903, 31997), (1013, 32228), (1060, 32327), (1070, 32354), (1126, 32453), (1133, 32462),

Gene: WonderBoy_25 Start: 20548, Stop: 21942, Start Num: 295

Candidate Starts for WonderBoy_25:

(Start: 295 @20548 has 213 MA's), (328, 20605), (Start: 387 @20710 has 1 MA's), (429, 20797), (452, 20830), (509, 20881), (512, 20887), (575, 20968), (577, 20971), (580, 20977), (590, 21013), (599, 21031), (601, 21034), (610, 21067), (620, 21088), (704, 21220), (719, 21247), (761, 21286), (775, 21307), (777, 21313), (788, 21346), (794, 21361), (797, 21370), (817, 21415), (866, 21451), (924, 21493), (953, 21556), (963, 21574), (1009, 21676), (1010, 21679), (1019, 21697), (1020, 21700), (1031, 21724), (1034, 21733), (1072, 21820), (1140, 21910), (1156, 21934),

Gene: Worcestershire_59 Start: 51468, Stop: 49936, Start Num: 306

Candidate Starts for Worcestershire_59:

(177, 51723), (201, 51672), (220, 51621), (248, 51567), (265, 51537), (Start: 290 @51504 has 3 MA's), (Start: 295 @51495 has 213 MA's), (Start: 306 @51468 has 28 MA's), (Start: 395 @51300 has 1 MA's), (416, 51258), (443, 51210), (449, 51198), (453, 51186), (455, 51180), (464, 51159), (479, 51132), (525, 50991), (580, 50904), (583, 50889), (587, 50877), (601, 50847), (622, 50796), (634, 50769), (665, 50718), (679, 50694), (690, 50676), (698, 50658), (700, 50655), (714, 50628), (747, 50586), (776, 50541), (857, 50406), (865, 50391), (883, 50370), (951, 50289), (953, 50286), (982, 50229), (985, 50223), (988, 50217), (990, 50211), (1025, 50136), (1048, 50097), (1055, 50085), (1057, 50082), (1099, 49989), (1109, 49974), (1125, 49953),

Gene: Xebius_40 Start: 30931, Stop: 29519, Start Num: 327

Candidate Starts for Xebius_40:

(Start: 327 @30931 has 23 MA's), (339, 30901), (Start: 343 @30895 has 1 MA's), (364, 30862), (471, 30670), (511, 30643), (547, 30583), (572, 30556), (577, 30553), (590, 30511), (622, 30457), (644, 30415), (727, 30301), (781, 30244), (790, 30223), (797, 30208), (801, 30196), (805, 30184), (806, 30181), (811, 30163), (857, 30082), (874, 30046), (903, 29992), (925, 29950), (940, 29920), (953, 29896), (957, 29890), (977, 29848), (1009, 29779), (1020, 29755), (1023, 29749), (1024, 29743), (1031, 29731), (1077, 29635), (1082, 29626), (1093, 29608), (1099, 29596), (1131, 29551),

Gene: Xenia2_58 Start: 39008, Stop: 40912, Start Num: 76

Candidate Starts for Xenia2_58:

(Start: 55 @38990 has 13 MA's), (Start: 58 @38993 has 23 MA's), (Start: 76 @39008 has 2 MA's), (Start: 89 @39056 has 2 MA's), (Start: 103 @39089 has 1 MA's), (105, 39092), (172, 39275), (175, 39284), (219, 39356), (225, 39371), (231, 39380), (299, 39479), (331, 39539), (457, 39752), (509, 39785), (562, 39878), (573, 39893), (583, 39920), (590, 39941), (652, 40055), (679, 40097), (687, 40106), (709, 40145), (716, 40157), (764, 40202), (773, 40208), (788, 40253), (794, 40268), (859, 40361), (939, 40454), (1009, 40607), (1027, 40649), (1037, 40667), (1040, 40670), (1112, 40808), (1137, 40844), (1167, 40898),

Gene: Xenomorph_75 Start: 46873, Stop: 48183, Start Num: 295

Candidate Starts for Xenomorph_75:

(Start: 295 @46873 has 213 MA's), (578, 47311), (587, 47341), (622, 47410), (645, 47455), (671, 47494), (677, 47503), (695, 47533), (722, 47578), (725, 47581), (765, 47617), (776, 47635), (778, 47641), (779, 47644), (781, 47647), (785, 47659), (805, 47719), (814, 47749), (1079, 47992), (1089, 48010), (1138, 48082), (1162, 48118),

Gene: Yakult_55 Start: 39767, Stop: 38292, Start Num: 280

Candidate Starts for Yakult_55:

(Start: 280 @39767 has 11 MA's), (Start: 303 @39725 has 4 MA's), (330, 39677), (Start: 343 @39650 has 1 MA's), (356, 39626), (379, 39596), (388, 39575), (391, 39566), (394, 39560), (443, 39476), (448, 39467), (451, 39458), (454, 39449), (456, 39443), (577, 39320), (596, 39266), (599, 39260), (602, 39254), (628, 39209), (649, 39176), (794, 38972), (797, 38963), (825, 38891), (867, 38846), (875, 38828), (877, 38822), (904, 38777), (907, 38771), (919, 38750), (940, 38702), (942, 38699), (964, 38657), (966, 38654), (971, 38639), (1013, 38543), (1036, 38492), (1066, 38429), (1093, 38381), (1104, 38360), (1146, 38303),

Gene: Yappy_96 Start: 49042, Stop: 47645, Start Num: 304

Candidate Starts for Yappy_96:

(Start: 304 @49042 has 1 MA's), (353, 48952), (363, 48940), (383, 48919), (406, 48868), (439, 48811), (443, 48805), (517, 48712), (524, 48700), (556, 48649), (582, 48604), (587, 48586), (616, 48526), (670, 48439), (689, 48412), (752, 48346), (831, 48232), (850, 48202), (865, 48175), (869, 48166), (879, 48142), (891, 48130), (906, 48097), (908, 48094), (918, 48076), (936, 48046), (949, 48022), (955, 48007), (991, 47932), (1006, 47899), (1032, 47848), (1044, 47827), (1062, 47785), (1077, 47752), (1122, 47686), (1136, 47665),

Gene: Yara_66 Start: 49125, Stop: 47230, Start Num: 61

Candidate Starts for Yara_66:

(Start: 61 @49125 has 8 MA's), (Start: 71 @49113 has 13 MA's), (73, 49110), (87, 49071), (93, 49047), (97, 49038), (106, 49026), (137, 48933), (161, 48870), (199, 48795), (219, 48771), (225, 48756), (299, 48645), (Start: 306 @48624 has 28 MA's), (335, 48576), (415, 48438), (548, 48240), (577, 48198), (595, 48147), (624, 48087), (627, 48081), (688, 47997), (788, 47892), (796, 47871), (806, 47853), (817, 47820), (865, 47772), (951, 47649), (958, 47637), (971, 47610), (1010, 47520), (1012, 47517), (1044, 47451), (1068, 47394), (1078, 47376), (1081, 47373), (1126, 47301), (1163, 47250),

Gene: Yarn_50 Start: 38320, Stop: 36842, Start Num: 277

Candidate Starts for Yarn_50:

(Start: 277 @38320 has 49 MA's), (330, 38227), (Start: 343 @38200 has 1 MA's), (388, 38125), (Start: 408 @38083 has 1 MA's), (453, 38002), (577, 37870), (596, 37816), (602, 37804), (649, 37726), (740, 37612), (772, 37585), (781, 37561), (794, 37522), (815, 37456), (830, 37435), (875, 37378), (939, 37261), (964, 37213), (971, 37195), (1013, 37099), (1023, 37078), (1036, 37048),

Gene: Yeezus_70 Start: 47415, Stop: 46021, Start Num: 317

Candidate Starts for Yeezus_70:

(Start: 317 @47415 has 13 MA's), (353, 47346), (399, 47271), (409, 47253), (425, 47223), (467, 47142), (656, 46848), (679, 46809), (773, 46695), (831, 46623), (850, 46593), (860, 46578), (865, 46566), (898, 46515), (923, 46464), (934, 46446), (936, 46437), (962, 46389), (1032, 46239), (1139, 46050),

Gene: Yelo_65 Start: 48022, Stop: 49782, Start Num: 183

Candidate Starts for Yelo_65:

(Start: 183 @48022 has 10 MA's), (226, 48091), (Start: 294 @48187 has 45 MA's), (299, 48196), (Start: 342 @48277 has 7 MA's), (373, 48322), (509, 48523), (534, 48571), (573, 48631), (580, 48643), (605, 48709), (672, 48832), (688, 48856), (700, 48880), (777, 49084), (788, 49117), (794, 49132),

(810, 49171), (811, 49174), (814, 49183), (865, 49252), (965, 49384), (1009, 49507), (1010, 49510), (1023, 49537), (1037, 49567), (1042, 49573), (1044, 49576), (1054, 49594), (1059, 49606), (1137, 49741), (1159, 49771),

Gene: Yikes_62 Start: 41734, Stop: 43647, Start Num: 58

Candidate Starts for Yikes_62:

(18, 41608), (21, 41617), (24, 41629), (33, 41662), (Start: 51 @41719 has 11 MA's), (Start: 55 @41731 has 13 MA's), (Start: 58 @41734 has 23 MA's), (Start: 76 @41746 has 2 MA's), (Start: 89 @41794 has 2 MA's), (Start: 103 @41827 has 1 MA's), (125, 41896), (155, 41986), (172, 42013), (175, 42022), (219, 42094), (Start: 297 @42214 has 15 MA's), (331, 42277), (Start: 387 @42367 has 1 MA's), (401, 42394), (509, 42523), (519, 42547), (542, 42589), (577, 42637), (583, 42658), (590, 42679), (620, 42736), (652, 42790), (679, 42832), (716, 42892), (788, 42988), (790, 42991), (915, 43168), (951, 43219), (992, 43309), (1009, 43345), (1012, 43351), (1037, 43405), (1059, 43444), (1112, 43546), (1123, 43561), (1137, 43582),

Gene: Yndexa_71 Start: 54175, Stop: 52319, Start Num: 120

Candidate Starts for Yndexa_71:

(9, 54592), (11, 54574), (16, 54499), (Start: 35 @54400 has 35 MA's), (Start: 120 @54175 has 3 MA's), (269, 53881), (Start: 297 @53848 has 15 MA's), (Start: 306 @53827 has 28 MA's), (336, 53773), (339, 53767), (341, 53764), (394, 53674), (Start: 395 @53671 has 1 MA's), (441, 53611), (553, 53455), (627, 53308), (688, 53200), (700, 53176), (777, 53074), (796, 53020), (805, 53005), (847, 52924), (876, 52885), (919, 52822), (939, 52783), (942, 52777), (956, 52747), (1009, 52630), (1040, 52567), (1068, 52504), (1078, 52486), (1133, 52402),

Gene: YoshiYama_81 Start: 47625, Stop: 48935, Start Num: 295

Candidate Starts for YoshiYama_81:

(Start: 295 @47625 has 213 MA's), (455, 47928), (578, 48063), (587, 48093), (645, 48207), (677, 48255), (695, 48285), (701, 48300), (722, 48330), (725, 48333), (776, 48387), (778, 48393), (779, 48396), (781, 48399), (785, 48411), (805, 48471), (814, 48501), (1079, 48744), (1089, 48762), (1138, 48834), (1162, 48870),

Gene: Yotsuba_76 Start: 49771, Stop: 51048, Start Num: 295

Candidate Starts for Yotsuba_76:

(Start: 295 @49771 has 213 MA's), (333, 49846), (Start: 384 @49930 has 1 MA's), (455, 50074), (504, 50110), (519, 50149), (578, 50209), (587, 50239), (677, 50401), (776, 50533), (784, 50554), (796, 50590), (799, 50599), (817, 50653), (910, 50689), (1013, 50752), (1036, 50803), (1047, 50818), (1068, 50869), (1086, 50902),

Gene: Yucky_59 Start: 40876, Stop: 39398, Start Num: 277

Candidate Starts for Yucky_59:

(217, 40954), (248, 40903), (Start: 250 @40900 has 2 MA's), (Start: 277 @40876 has 49 MA's), (312, 40813), (328, 40792), (330, 40786), (Start: 343 @40759 has 1 MA's), (379, 40705), (394, 40669), (401, 40654), (453, 40558), (456, 40549), (465, 40528), (532, 40462), (577, 40426), (596, 40372), (599, 40366), (602, 40360), (649, 40282), (661, 40267), (740, 40168), (788, 40093), (797, 40069), (801, 40057), (808, 40036), (812, 40021), (815, 40012), (830, 39991), (867, 39952), (870, 39943), (877, 39928), (907, 39877), (940, 39808), (942, 39805), (964, 39763), (971, 39745), (1013, 39649), (1036, 39598), (1055, 39568), (1066, 39535), (1097, 39478), (1106, 39463),

Gene: Yuma_83 Start: 49751, Stop: 48231, Start Num: 292

Candidate Starts for Yuma_83:

(265, 49784), (Start: 292 @49751 has 28 MA's), (Start: 315 @49700 has 2 MA's), (383, 49592), (412, 49526), (449, 49460), (535, 49337), (541, 49322), (578, 49265), (590, 49232), (592, 49229), (623, 49166), (653, 49115), (661, 49106), (665, 49097), (697, 49043), (723, 49004), (745, 48989), (787,

48920), (798, 48890), (821, 48827), (865, 48755), (962, 48569), (1019, 48461), (1032, 48431), (1057, 48386), (1077, 48335), (1120, 48272),

Gene: Yummy_55 Start: 38695, Stop: 37217, Start Num: 277

Candidate Starts for Yummy_55:

(Start: 277 @38695 has 49 MA's), (328, 38608), (330, 38602), (356, 38551), (388, 38500), (394, 38485), (443, 38401), (453, 38377), (456, 38368), (577, 38245), (596, 38191), (599, 38185), (602, 38179), (622, 38149), (649, 38101), (740, 37987), (772, 37960), (781, 37936), (808, 37855), (815, 37831), (830, 37810), (867, 37771), (875, 37753), (877, 37747), (939, 37636), (942, 37630), (964, 37588), (971, 37570), (1009, 37483), (1013, 37474), (1023, 37453), (1036, 37423), (1055, 37393), (1066, 37360), (1099, 37300), (1121, 37270),

Gene: YuyuY_40 Start: 31212, Stop: 29842, Start Num: 327

Candidate Starts for YuyuY_40:

(Start: 327 @31212 has 23 MA's), (364, 31143), (411, 31062), (471, 30951), (511, 30924), (547, 30864), (572, 30837), (577, 30834), (622, 30738), (727, 30582), (781, 30525), (790, 30504), (797, 30489), (801, 30477), (805, 30465), (808, 30456), (811, 30444), (817, 30429), (838, 30405), (874, 30369), (877, 30360), (903, 30315), (925, 30273), (960, 30210), (967, 30198), (977, 30171), (1009, 30102), (1013, 30093), (1020, 30078), (1023, 30072), (1024, 30066), (1031, 30054), (1077, 29958), (1082, 29949), (1093, 29931), (1099, 29919),

Gene: Zada_42 Start: 31090, Stop: 29702, Start Num: 319

Candidate Starts for Zada_42:

(163, 31387), (197, 31312), (Start: 319 @31090 has 153 MA's), (405, 30946), (Start: 408 @30940 has 1 MA's), (410, 30937), (471, 30823), (511, 30796), (547, 30736), (572, 30709), (577, 30706), (622, 30610), (644, 30568), (724, 30457), (781, 30397), (797, 30361), (801, 30349), (817, 30301), (874, 30241), (927, 30145), (960, 30082), (982, 30028), (1023, 29944), (1024, 29938), (1031, 29926), (1077, 29830), (1109, 29776), (1112, 29773), (1128, 29749),

Gene: Zanella_33 Start: 23260, Stop: 24687, Start Num: 298

Candidate Starts for Zanella_33:

(270, 23218), (Start: 298 @23260 has 19 MA's), (464, 23578), (583, 23725), (590, 23746), (740, 24013), (777, 24061), (785, 24082), (808, 24139), (821, 24172), (903, 24208), (944, 24286), (953, 24307), (991, 24388), (992, 24391), (1034, 24478), (1043, 24490), (1061, 24529), (1072, 24565), (1075, 24571), (1077, 24574), (1082, 24583), (1134, 24646),

Gene: Zany_58 Start: 41140, Stop: 43056, Start Num: 55

Candidate Starts for Zany_58:

(Start: 55 @41140 has 13 MA's), (Start: 58 @41143 has 23 MA's), (Start: 76 @41155 has 2 MA's), (Start: 89 @41203 has 2 MA's), (Start: 103 @41236 has 1 MA's), (125, 41305), (155, 41395), (172, 41422), (175, 41431), (219, 41503), (Start: 297 @41623 has 15 MA's), (331, 41686), (346, 41713), (Start: 387 @41776 has 1 MA's), (401, 41803), (509, 41932), (519, 41956), (542, 41998), (577, 42046), (583, 42067), (590, 42088), (620, 42145), (652, 42199), (679, 42241), (716, 42301), (788, 42397), (790, 42400), (951, 42628), (992, 42718), (1009, 42754), (1012, 42760), (1037, 42814), (1059, 42853), (1112, 42955), (1123, 42970), (1137, 42991),

Gene: Zareef_49 Start: 37928, Stop: 36438, Start Num: 277

Candidate Starts for Zareef_49:

(Start: 277 @37928 has 49 MA's), (330, 37838), (Start: 343 @37811 has 1 MA's), (370, 37769), (391, 37727), (394, 37721), (Start: 408 @37694 has 1 MA's), (453, 37613), (454, 37610), (456, 37604), (465, 37583), (532, 37517), (596, 37427), (602, 37415), (639, 37352), (649, 37337), (661, 37322), (762, 37205), (772, 37196), (799, 37118), (808, 37091), (811, 37079), (815, 37067), (857, 37028), (867, 37007), (868, 37004), (875, 36989), (907, 36917), (940, 36848), (964, 36803), (981, 36758), (988,

36743), (998, 36713), (1013, 36689), (1036, 36638), (1055, 36608), (1085, 36542), (1097, 36518), (1121, 36485), (1146, 36449),

Gene: Zayuliv_40 Start: 29694, Stop: 28267, Start Num: 319

Candidate Starts for Zayuliv_40:

(Start: 319 @29694 has 153 MA's), (336, 29664), (339, 29658), (Start: 408 @29544 has 1 MA's), (410, 29541), (411, 29538), (572, 29304), (577, 29301), (727, 29046), (778, 28995), (781, 28989), (801, 28941), (811, 28908), (874, 28794), (877, 28785), (903, 28740), (905, 28734), (920, 28707), (960, 28635), (991, 28563), (1009, 28527), (1013, 28518), (1020, 28503), (1023, 28497), (1031, 28479), (1055, 28437), (1082, 28374), (1128, 28302),

Gene: Zeina_80 Start: 46870, Stop: 48117, Start Num: 294

Candidate Starts for Zeina_80:

(Start: 294 @46870 has 45 MA's), (Start: 384 @47032 has 1 MA's), (388, 47044), (413, 47098), (455, 47176), (518, 47248), (587, 47341), (590, 47350), (677, 47503), (722, 47578), (781, 47647), (1075, 47986), (1096, 48022), (1107, 48040),

Gene: Zenitsu_40 Start: 30973, Stop: 29561, Start Num: 327

Candidate Starts for Zenitsu_40:

(Start: 323 @30976 has 8 MA's), (Start: 327 @30973 has 23 MA's), (339, 30943), (Start: 343 @30937 has 1 MA's), (364, 30904), (471, 30712), (511, 30685), (547, 30625), (572, 30598), (577, 30595), (590, 30553), (622, 30499), (644, 30457), (727, 30343), (781, 30286), (790, 30265), (797, 30250), (801, 30238), (805, 30226), (806, 30223), (811, 30205), (857, 30124), (874, 30088), (903, 30034), (925, 29992), (940, 29962), (948, 29947), (953, 29938), (957, 29932), (977, 29890), (1009, 29821), (1020, 29797), (1023, 29791), (1024, 29785), (1031, 29773), (1077, 29677), (1082, 29668), (1093, 29650), (1099, 29638), (1102, 29632), (1131, 29593),

Gene: Zenon_68 Start: 47968, Stop: 49728, Start Num: 183

Candidate Starts for Zenon_68:

(Start: 183 @47968 has 10 MA's), (226, 48037), (Start: 294 @48133 has 45 MA's), (299, 48142), (Start: 342 @48223 has 7 MA's), (373, 48268), (509, 48469), (534, 48517), (573, 48577), (580, 48589), (605, 48655), (672, 48778), (688, 48802), (700, 48826), (777, 49030), (788, 49063), (794, 49078), (810, 49117), (811, 49120), (814, 49129), (865, 49198), (965, 49330), (1009, 49453), (1010, 49456), (1023, 49483), (1037, 49513), (1042, 49519), (1044, 49522), (1054, 49540), (1059, 49552), (1137, 49687), (1159, 49717),

Gene: Zeph_88 Start: 55276, Stop: 56490, Start Num: 295

Candidate Starts for Zeph_88:

(Start: 295 @55276 has 213 MA's), (299, 55282), (Start: 327 @55336 has 23 MA's), (328, 55339), (333, 55351), (358, 55399), (359, 55402), (392, 55444), (413, 55486), (429, 55513), (433, 55519), (452, 55558), (518, 55636), (519, 55639), (578, 55699), (623, 55801), (639, 55831), (657, 55858), (671, 55882), (673, 55885), (677, 55891), (695, 55921), (698, 55930), (700, 55933), (715, 55954), (717, 55957), (720, 55963), (725, 55969), (760, 55996), (765, 56005), (776, 56023), (779, 56032), (781, 56035), (784, 56044), (799, 56089), (807, 56113), (814, 56137), (910, 56182), (992, 56215), (1018, 56254), (1036, 56296), (1096, 56413), (1115, 56440), (1138, 56473),

Gene: Zepp_40 Start: 29128, Stop: 27701, Start Num: 319

Candidate Starts for Zepp_40:

(Start: 319 @29128 has 153 MA's), (336, 29098), (339, 29092), (Start: 408 @28978 has 1 MA's), (410, 28975), (540, 28774), (572, 28738), (577, 28735), (727, 28480), (778, 28429), (781, 28423), (801, 28375), (805, 28363), (811, 28342), (863, 28255), (874, 28228), (877, 28219), (903, 28174), (920, 28141), (948, 28087), (960, 28069), (991, 27997), (1009, 27961), (1013, 27952), (1020, 27937), (1023, 27931), (1031, 27913), (1082, 27808), (1128, 27736),

Gene: Zion_72 Start: 52509, Stop: 50584, Start Num: 74

Candidate Starts for Zion_72:

(32, 52602), (34, 52596), (Start: 74 @52509 has 16 MA's), (134, 52338), (153, 52284), (269, 52080), (365, 51924), (394, 51873), (Start: 395 @51870 has 1 MA's), (427, 51828), (511, 51741), (512, 51738), (548, 51666), (555, 51657), (775, 51306), (777, 51300), (788, 51267), (981, 50928), (1012, 50862), (1018, 50850), (1024, 50832), (1040, 50805), (1068, 50742), (1087, 50709), (1135, 50637),

Gene: Zippen_79 Start: 48905, Stop: 50164, Start Num: 294

Candidate Starts for Zippen_79:

(Start: 292 @48899 has 28 MA's), (Start: 294 @48905 has 45 MA's), (312, 48941), (Start: 318 @48950 has 13 MA's), (388, 49076), (426, 49151), (518, 49280), (519, 49283), (578, 49343), (587, 49373), (657, 49502), (677, 49535), (700, 49577), (781, 49679), (992, 49859), (1036, 49940), (1060, 49985), (1096, 50057),

Gene: Zooman_98 Start: 76212, Stop: 74272, Start Num: 75

Candidate Starts for Zooman_98:

(Start: 75 @76212 has 19 MA's), (118, 76086), (126, 76059), (165, 75966), (166, 75963), (222, 75891), (269, 75810), (Start: 290 @75786 has 3 MA's), (433, 75510), (587, 75225), (596, 75204), (645, 75114), (688, 75054), (693, 75045), (700, 75030), (730, 74988), (777, 74982), (788, 74949), (793, 74937), (796, 74928), (808, 74904), (839, 74844), (881, 74808), (944, 74712), (947, 74706), (976, 74643), (984, 74622), (987, 74616), (1023, 74541), (1024, 74535), (1035, 74514), (1063, 74454), (1084, 74412), (1097, 74388), (1104, 74376),

Gene: Zorro_29 Start: 22105, Stop: 23505, Start Num: 295

Candidate Starts for Zorro_29:

(Start: 295 @22105 has 213 MA's), (328, 22168), (Start: 387 @22273 has 1 MA's), (388, 22276), (429, 22360), (452, 22393), (509, 22444), (512, 22450), (575, 22531), (577, 22534), (580, 22540), (590, 22576), (599, 22594), (601, 22597), (610, 22630), (620, 22651), (650, 22702), (704, 22783), (719, 22810), (754, 22840), (761, 22849), (777, 22876), (788, 22909), (794, 22924), (817, 22978), (860, 22999), (865, 23011), (904, 23023), (1012, 23245), (1017, 23254), (1019, 23260), (1034, 23296), (1063, 23356), (1072, 23383), (1140, 23473),

Gene: Zuko_72 Start: 51866, Stop: 53398, Start Num: 260

Candidate Starts for Zuko_72:

(218, 51788), (Start: 260 @51866 has 3 MA's), (283, 51899), (330, 51986), (352, 52028), (355, 52034), (356, 52037), (359, 52043), (381, 52070), (389, 52091), (391, 52097), (410, 52133), (433, 52175), (444, 52196), (451, 52211), (453, 52217), (454, 52220), (571, 52364), (577, 52370), (578, 52373), (596, 52424), (599, 52430), (602, 52436), (615, 52460), (628, 52481), (649, 52514), (694, 52577), (697, 52586), (756, 52649), (799, 52745), (808, 52772), (811, 52784), (815, 52796), (817, 52799), (907, 52916), (953, 53012), (964, 53030), (973, 53054), (1009, 53135), (1010, 53138), (1012, 53141), (1036, 53195), (1055, 53225), (1079, 53282), (1093, 53306), (1101, 53321),