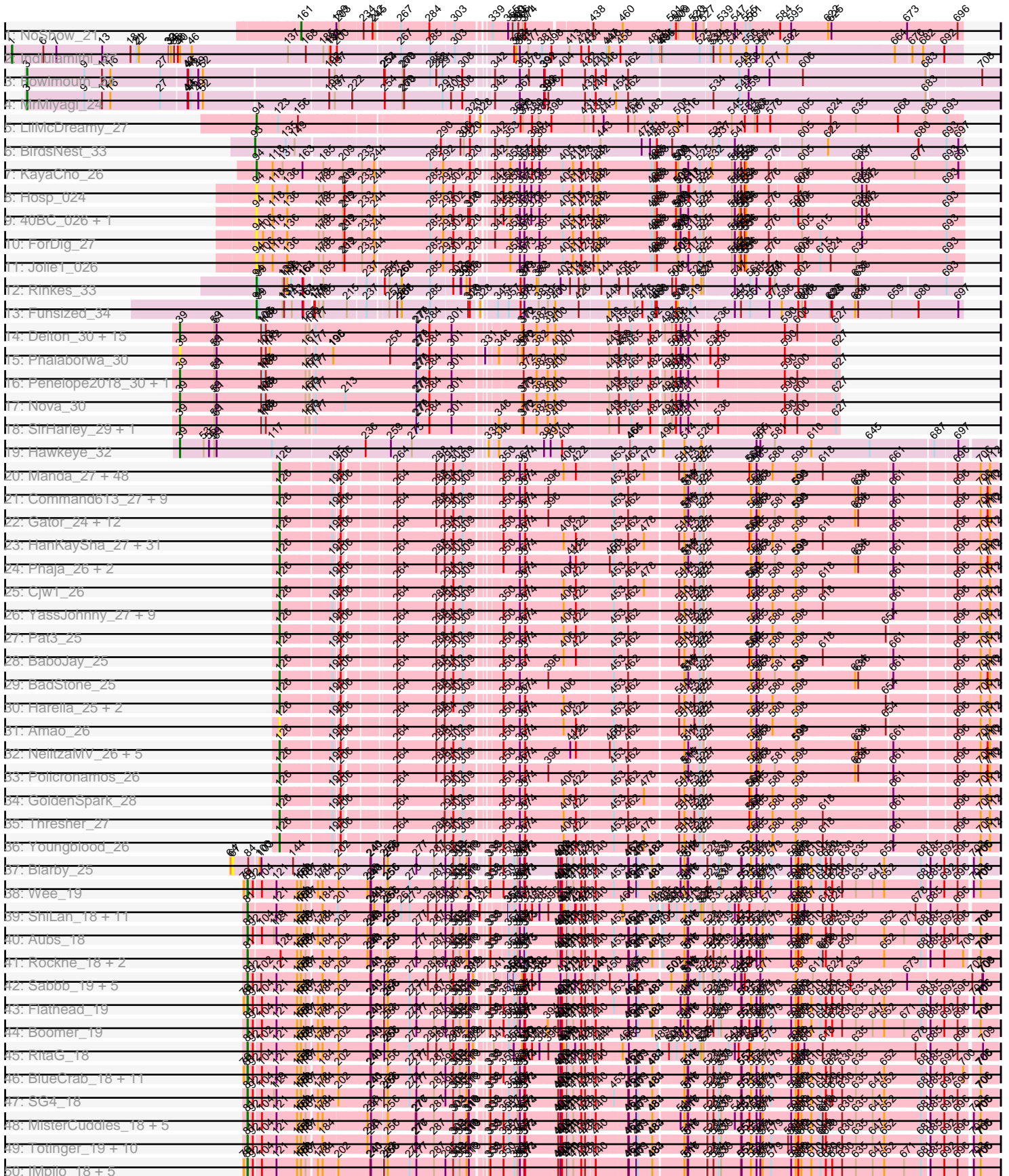


Pham 224140



	82	104	121	140	158	176	210	236	276	287	310	329	348	367	386	405	424	443	462	481	500	519	538	557	576	595	614	633	652	671	690	709	728	747	766	785	804	823	842	861	880	899	918	937	956	975	994	1013	1032	1051	1070	1089	1108	1127	1146	1165	1184	1203	1222	1241	1260	1279	1298	1317	1336	1355	1374	1393	1412	1431	1450	1469	1488	1507	1526	1545	1564	1583	1602	1621	1640	1659	1678	1697	1716	1735	1754	1773	1792	1811	1830	1849	1868	1887	1906	1925	1944	1963	1982	2001	2020	2039	2058	2077	2096	2115	2134	2153	2172	2191	2210	2229	2248	2267	2286	2305	2324	2343	2362	2381	2400	2419	2438	2457	2476	2495	2514	2533	2552	2571	2590	2609	2628	2647	2666	2685	2704	2723	2742	2761	2780	2799	2818	2837	2856	2875	2894	2913	2932	2951	2970	2989	3008	3027	3046	3065	3084	3103	3122	3141	3160	3179	3198	3217	3236	3255	3274	3293	3312	3331	3350	3369	3388	3407	3426	3445	3464	3483	3502	3521	3540	3559	3578	3597	3616	3635	3654	3673	3692	3711	3730	3749	3768	3787	3806	3825	3844	3863	3882	3901	3920	3939	3958	3977	3996	4015	4034	4053	4072	4091	4110	4129	4148	4167	4186	4205	4224	4243	4262	4281	4300	4319	4338	4357	4376	4395	4414	4433	4452	4471	4490	4509	4528	4547	4566	4585	4604	4623	4642	4661	4680	4699	4718	4737	4756	4775	4794	4813	4832	4851	4870	4889	4908	4927	4946	4965	4984	5003	5022	5041	5060	5079	5098	5117	5136	5155	5174	5193	5212	5231	5250	5269	5288	5307	5326	5345	5364	5383	5402	5421	5440	5459	5478	5497	5516	5535	5554	5573	5592	5611	5630	5649	5668	5687	5706	5725	5744	5763	5782	5801	5820	5839	5858	5877	5896	5915	5934	5953	5972	5991	6010	6029	6048	6067	6086	6105	6124	6143	6162	6181	6200	6219	6238	6257	6276	6295	6314	6333	6352	6371	6390	6409	6428	6447	6466	6485	6504	6523	6542	6561	6580	6599	6618	6637	6656	6675	6694	6713	6732	6751	6770	6789	6808	6827	6846	6865	6884	6903	6922	6941	6960	6979	6998	7017	7036	7055	7074	7093	7112	7131	7150	7169	7188	7207	7226	7245	7264	7283	7302	7321	7340	7359	7378	7397	7416	7435	7454	7473	7492	7511	7530	7549	7568	7587	7606	7625	7644	7663	7682	7701	7720	7739	7758	7777	7796	7815	7834	7853	7872	7891	7910	7929	7948	7967	7986	8005	8024	8043	8062	8081	8100	8119	8138	8157	8176	8195	8214	8233	8252	8271	8290	8309	8328	8347	8366	8385	8404	8423	8442	8461	8480	8499	8518	8537	8556	8575	8594	8613	8632	8651	8670	8689	8708	8727	8746	8765	8784	8803	8822	8841	8860	8879	8898	8917	8936	8955	8974	8993	9012	9031	9050	9069	9088	9107	9126	9145	9164	9183	9202	9221	9240	9259	9278	9297	9316	9335	9354	9373	9392	9411	9430	9449	9468	9487	9506	9525	9544	9563	9582	9601	9620	9639	9658	9677	9696	9715	9734	9753	9772	9791	9810	9829	9848	9867	9886	9905	9924	9943	9962	9981
51: Alexphander_20 + 3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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63: Phatmiss_19 + 4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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71: Moonbeam_19 + 4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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73: SuperGrey_19																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
74: Kersh_19																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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76: NewHope4_19 + 1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
77: MinionDave_19 + 1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
78: IDHubesi_18 + 1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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85: EleanorGeorge_18 + 6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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88: Che8_18																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
89: FancyPants_18																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
90: ShroomBot_18																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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92: Spartacus_19																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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96: Donkeykong_18																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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Pham 224140

201: Guanica15_27 + 2	134	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
202: Geraldini_27 + 1	134	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
203: Tachez_27 + 2	134	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
204: DrHayes_27 + 2	134	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
205: MacKat_28 + 1	134	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
206: Megsy_27	134	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
207: Murucutumbu_27	134	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
208: CheetoDust_27	134	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
209: Simson_28	134	174	196	224	294	318	350	401	413	453	508	517	541	581	603	649	635	689	699
210: LeMond_26	134	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
211: Ganymede_28 + 1	134	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
212: Apocalypse_27	134	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
213: Bella96_27	134	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
214: TaiwanKab_28	134	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
215: Beezoo_27	134	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
216: TimBug_27	134	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
217: CnmD_27	134	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
218: Bem_29	134	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
219: Tim_27	134	174	196	224	294	318	350	401	413	453	508	517	541	581	603	649	635	689	699
220: Chns_26	134	174	196	224	294	318	350	401	413	453	508	517	541	581	603	649	635	689	699
221: Oscar_26	134	174	196	224	294	318	350	401	413	453	508	517	541	581	603	649	635	689	699
222: KtSI_26	134	174	196	224	294	318	350	401	413	453	508	517	541	581	603	649	635	689	699
223: Ageoldapage_27	134	174	196	224	294	318	350	401	413	453	508	517	541	581	603	649	635	689	699
224: Scarlett_26	134	174	196	224	294	318	350	401	413	453	508	517	541	581	603	649	635	689	699
225: Niob_26	134	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
226: LaterM_27	134	174	196	224	294	318	350	401	413	453	508	517	541	581	603	649	635	689	699
227: Marshawn_28	134	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
228: SirPhilip_26	134	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
229: Aminay_25	9600	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
230: Vagabond_58 + 18	9600	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
231: YungJamal_63 + 7	9600	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
232: Ryadel_62	9600	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
233: Smooch_61 + 1	9600	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
234: Bora_56	9600	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
235: Zobo_57	9600	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
236: Shipwreck_20 + 1	9600	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
237: Pygmy_28	9600	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
238: Zenoi_37	9600	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
239: Rope_30 + 2	9600	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
240: Yelo_30	9600	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
241: Papyrus_30	9600	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
242: Weiss_3	9600	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
243: MontyDev_31	9600	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
244: Niio_3	9600	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
245: Ripanian_80	9600	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
246: MaryV_43 + 1	9600	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
247: Cosmo_43	9600	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
248: AzraelT00_42	9600	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
249: EniyanLRS_40	9600	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699
250: Gaia_21	9600	174	224	294	318	350	401	440	453	508	517	541	574	581	603	649	635	689	699

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 224140 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224140 has 609 members, 60 are drafts.

Phages represented in each track:

- Track 1 : NoShow_21
- Track 2 : Indlulamithi_27
- Track 3 : Fowlmouth_24
- Track 4 : MrMiyagi_24
- Track 5 : LilMcDreamy_27
- Track 6 : BirdsNest_33
- Track 7 : KayaCho_26
- Track 8 : Hosp_024
- Track 9 : 40BC_026, 39HC_026
- Track 10 : ForDig_27
- Track 11 : Jolie1_026
- Track 12 : Rinkes_33
- Track 13 : Funsized_34
- Track 14 : Delton_30, Erk16_30, KandZ_30, Visconti_30, Troll4_30, PLOT_31, Prager_30, Giuseppe_30, Adjutor_31, Mopey_30, Thoth_30, WaldoWhy_31, PBI1_30, BigMama_28, Butterscotch_30, Chill_31
- Track 15 : Phalaborwa_30
- Track 16 : Penelope2018_30, Helpful_31
- Track 17 : Nova_30
- Track 18 : SirHarley_29, Gumball_29
- Track 19 : Hawkeye_32
- Track 20 : Manda_27, Terminus_26, Goldilocks_27, Murphy_27, Gage_28, Willez_25, Holt_27, Thimble_26, Porky_26, Teaspoon_27, Buck_25, Miniwave_26, PhatBacter_26, Cookies_26, MPhalcon_25, Murica_25, Pharsalus_27, Inca_25, Filch_27, Tarkin_28, Palpatine_26, HufflyPuff_25, Petra64142_28, FireRed_26, Phaux_25, StellaBean_26, TBrady12_28, AmericanBeauty_28, Misfit_26, Paperbeatsrock_28, Nala_26, Argent26_28, MISSy_25, Nimrod_26, Highbury_27, Becksu_26, SophKB_26, Gemini_29, GooberAzure_28, StormChicken_26, BugsBunny_24, Saints25_27, Kimchi_28, ShereKhan_28, Stank_29, Quallification_27, Easy2Say_28, Kanye_28, Sassay_25
- Track 21 : Command613_27, Marshmallow_26, Icee_25, Bask21_26, Sotrice96_26, Kostya_26, CrystalP_26, BilboSwaggins_26, Cactus_27, SirDuracell_25
- Track 22 : Gator_24, Dusk_25, Rakim_27, ABCat_25, Asriel_25, Barbarian_25, Goku_26, Myrale_26, Balomoji_25, Tuco_27, Traaww1_24, TeardropMSU_25, Eureka_26
- Track 23 : HanKaySha_27, Phrux_26, Xandras_28, Wiggin_29, Adnama_29, Stark_27, Moldemort_27, Czyszczon1_27, RiverMonster_26, Elite2014_25,

Bench_28, Lilizi_28, ChosenOne_25, DoctorDiddles_26, DrDrey_27, Simpliphy_27, Lilpickle_25, Pumpkin_28, MadamMonkfish_26, NoSleep_27, Dumbo_26, Ukulele_26, OrionPax_27, Elph10_27, Maxxinista_27, JeTaime_28, Hopey_28, 244_28, StolenFromERC_28, Emmina_27, Hoonter_28, Lilac_28

- Track 24 : Phaja_26, IHOP_26, FairyPath_26
- Track 25 : Cjw1_26
- Track 26 : YassJohnny_27, Contagion_25, Mosby_25, Tomaszewski_25, BigBubba_27, Bruin_26, ChotaBhai_26, xkcd_27, Rimmer_25, FoghornLeghorn_25
- Track 27 : Pat3_25
- Track 28 : BaboJay_25
- Track 29 : BadStone_25
- Track 30 : Harella_25, Flypotenuse_24, Glexan_24
- Track 31 : Amao_26
- Track 32 : NelitzaMV_26, Henry_26, ShamWow_26, Daikon_24, Toto_26, Mindy_26
- Track 33 : Policronamos_26
- Track 34 : GoldenSpark_28
- Track 35 : Thresher_27
- Track 36 : Youngblood_26
- Track 37 : Blarby_25
- Track 38 : Wee_19
- Track 39 : ShiLan_18, Gandalph_18, Burwell21_18, OlympiaSaint_18, NormanBulbieJr_18, ShowerHandel_18, Priscilla_18, Yorick_18, Jacob_18, Spoonbill_18, Martik_18, Cabrinians_18
- Track 40 : Aubs_18
- Track 41 : Rockne_18, Llij_18, PMC_18
- Track 42 : Sabbb_19, Mattes_18, BobaPhett_18, Gorge_18, James_18, LilMoolah_18
- Track 43 : Flathead_19
- Track 44 : Boomer_19
- Track 45 : RitaG_18
- Track 46 : BlueCrab_18, Pacc40_18, Polka14_19, Daenerys_18, PHappiness_18, Dorothy_18, KingMidas_19, JoeyJr_18, OldBen_18, DaddyRickover_18, IbOuu_18, Scottish_19
- Track 47 : SG4_18
- Track 48 : MisterCuddles_18, GUmbie_18, Girr_18, Veteran_18, Phasih_19, Ruby_18
- Track 49 : Totinger_19, LittleShirley_19, EmiMonkey_18, Slim_20, Starcevich_19, Vivum_18, Tchotchke_19, Rialto_20, Emmaloid_20, GigiOuiOui_18, PhlipPhlop_18
- Track 50 : IMpilo_18, Firehouse51_19, Minnie_19, Leozinho_19, MilleniumForce_19, Whatsapiecost_18
- Track 51 : Alexphander_20, ArcusAngelus_18, DaWorst_20, Chevrolet_18
- Track 52 : Zerg_18
- Track 53 : Madiba_19
- Track 54 : VRedHorse_18
- Track 55 : Job42_21
- Track 56 : Doug_19
- Track 57 : TootsiePop_19, Awesomesauce_19, Misha28_19
- Track 58 : Tootsieroll_19, Radiance_18
- Track 59 : Aloeri_19, ChickenDinner_19, DocMcStuffins_19, Piper2020_19
- Track 60 : OfUltron_18, Jinglebell_17, Llama_18, Modragons_18, AlpineSix_18, Seabastian_18, Ochi17_18
- Track 61 : Spikelee_19, RedBird_18, BuzzLyseyear_20, RockyHorror_19, WillSterrel_19, IrishSherpFalk_19, Mantra_18

- Track 62 : Chuckly_18
- Track 63 : Phatniss_19, Drago_19, UncleRicky_19, Enby_19, Lorde_19
- Track 64 : Coco12_20, Phanphagia_18, Brookers_19, Kingsley_19
- Track 65 : Hades_18, OwlsT2W_20, DosHalletts_19
- Track 66 : Shauna1_18
- Track 67 : Karhdo_18
- Track 68 : Strokeseat_18, Hlubikazi_18, Mandlovu_18
- Track 69 : Dante_18
- Track 70 : Mova_19
- Track 71 : Moonbeam_19, Kimberlium_20, Juice456_20, QuickMath_19, MulchExplorer_21
- Track 72 : Mozy_19
- Track 73 : SuperGrey_19
- Track 74 : Kersh_19
- Track 75 : DotProduct_18
- Track 76 : NewHope4_19, Polo2Bam_20
- Track 77 : MinionDave_19, CaptainTrips_19
- Track 78 : Ibhubesi_18, Harley_18
- Track 79 : Nitzel_19
- Track 80 : Taj_18, DeadP_18
- Track 81 : Nivrat_18, Lizziana_18
- Track 82 : ByChance_18
- Track 83 : PhesterPhotato_18
- Track 84 : Ramsey_19
- Track 85 : EleanorGeorge_18, JalFarm20_20, KristaRAM_19, Batiatus_18, KingJulian_18, Corium_18, Fruitloop_18
- Track 86 : Nimbo_18, Blexus_18, Geralt_18, Inventum_18, Deb65_18, Sassafras_18
- Track 87 : XFactor_18, Galactic_18, Filuzino_18
- Track 88 : Che8_18
- Track 89 : Fancypants_18
- Track 90 : ShroomBoi_18
- Track 91 : SwagPiggett_18, TDanisky_18, Philus_18, Saal_18, Sparkdehlily_18, DRBy19_18
- Track 92 : Spartacus_19
- Track 93 : SimranZ1_19
- Track 94 : Whouxphf_18
- Track 95 : DLane_18
- Track 96 : Donkeykong_18
- Track 97 : LunaBlu_19
- Track 98 : Bobi_20
- Track 99 : DoRead_18
- Track 100 : Mutaforma13_18
- Track 101 : Pollywog_21, Ogopogo_21
- Track 102 : Royals2015_18
- Track 103 : Emma_18, Tweety_18
- Track 104 : Bubbles123_19
- Track 105 : Stap_19
- Track 106 : Wachhund_18
- Track 107 : Phalconet_18
- Track 108 : Oksu_19
- Track 109 : Quico_19, Girafales_19, Florinda_18
- Track 110 : Guppsters_19

- Track 111 : Estave1_18
- Track 112 : Mahavrat_18, Juniper1_18
- Track 113 : Jant_18
- Track 114 : Plumbus_19
- Track 115 : Ovechkin_18
- Track 116 : Krakatau_19
- Track 117 : Hegedechwinu_19
- Track 118 : Eish_18
- Track 119 : Hamulus_18
- Track 120 : Sandalphon_19
- Track 121 : SiSi_18
- Track 122 : Grimmer_19
- Track 123 : Poenanya_18, Doomphist_18
- Track 124 : SassyB_18, PopTart_18
- Track 125 : Seagreen_19
- Track 126 : Cornucopia_19, Marker_19
- Track 127 : Leperchaun_18
- Track 128 : Eradicator_18
- Track 129 : Maravista_18
- Track 130 : Empress_19
- Track 131 : Melissauren88_18
- Track 132 : Zizzle_18
- Track 133 : Violac_19
- Track 134 : Beakin_19
- Track 135 : Bipolar_18
- Track 136 : MadMen_19
- Track 137 : DillTech15_18
- Track 138 : Brushbloom_20
- Track 139 : FreddyB_18
- Track 140 : BodEinwohner17_18
- Track 141 : Byougenkin_18
- Track 142 : Fastidio_18
- Track 143 : DirtMcgirt_19
- Track 144 : Rita_18
- Track 145 : Ardmore_18
- Track 146 : Latretium_19
- Track 147 : StAnnes_18
- Track 148 : Frankie_19
- Track 149 : Cheesepuff_21
- Track 150 : Kenuha5_18
- Track 151 : Zapner_25, Jabbawokkie_26
- Track 152 : Avani_24
- Track 153 : Che9d_24
- Track 154 : Soul22_24
- Track 155 : Demsculpinboyz_24
- Track 156 : SilverChicken_24
- Track 157 : Yoshi_24
- Track 158 : LunaStella_20
- Track 159 : ThetaBob_20
- Track 160 : Renaud18_20
- Track 161 : Cornie_20
- Track 162 : Toron_20
- Track 163 : Cambiare_23

- Track 164 : Avocado_22
- Track 165 : Pace1224_22, FlagStaff_22
- Track 166 : Pinnie_23
- Track 167 : MOOREtheMARYer_23
- Track 168 : Lemuria_23
- Track 169 : Mercurio_24
- Track 170 : Jolie2_22
- Track 171 : Antsirabe_22
- Track 172 : Stargaze_22
- Track 173 : Puissant_28
- Track 174 : Oaker_29
- Track 175 : Damien_29, Cborch11_30, Beckerton_29, Megatron06_31
- Track 176 : Thumb_29
- Track 177 : Konstantine_34, Phreeze_29
- Track 178 : DrLupo_38
- Track 179 : Barnyard_36
- Track 180 : Brujita_21, Island3_21
- Track 181 : Courthouse_36, Squint_35, Ariel_36, Porcelain_35, Superphikiman_36, Lucky2013_36
- Track 182 : LittleE_39
- Track 183 : MiaZeal_36
- Track 184 : Optimus_37
- Track 185 : Shaboozey_30, Hannaconda_33, KashFlow_30
- Track 186 : Wanda_39, BAKA_36, Omega_38
- Track 187 : Duke13_36
- Track 188 : Minerva_39
- Track 189 : Gonephishing_34
- Track 190 : DmpstrDiver_37
- Track 191 : Durfee_27, AlishaPH_27, Dalmuri_27, Inky_27, Asayake_27, Jeckyll_27, Capricorn_27, BGIlluviae_27, CallaLilly_28, Pokerus_26, Ramen_27, Boiiii_27, Belladonna_27, Peel_27, Padfoot_27, Twitch_27, CaseJules_27, Llorens_27, Piatt_27, JAWS_27, BEEST_27, BaghaKamala_27, Hyperbowlee_27, Jarvi_27, Spock_27, BarrelRoll_27, Topper_27, CREW_27, Blizzard_27, Homura_27, Rosmarinus_27, ShiaSurprise_27, Lunahalos_27
- Track 192 : MarkPhew_27
- Track 193 : Sulley_27, Angelica_27, Deby_27
- Track 194 : Joy99_27
- Track 195 : Prithvi_27, TreyKay_27, LindNT_27
- Track 196 : Adonis_27
- Track 197 : Zavala_27, Mynx_27, Emerson_27, Padpat_27, TruffulaTree_27
- Track 198 : HedwigODU_27, Veliki_27, Zabiza_27, Rapunzel97_27, Jayhawk_27, Adephagia_27, Slimphazie_27, ActinUp_27
- Track 199 : Anaya_28
- Track 200 : Illumine_27, Devera_27, Dole_27
- Track 201 : Guanica15_27, Yunkel11_27, Efra2_27
- Track 202 : Geraldini_27, MeaningOfLife_27
- Track 203 : Tachez_27, YoureAdopted_26, Atiba_27
- Track 204 : DrHayes_27, Urkel_27, SamuelLPlaqson_27
- Track 205 : MacKat_28, Clipper_29
- Track 206 : Megsy_27
- Track 207 : Murucutumbu_27
- Track 208 : CheetoDust_27
- Track 209 : Stinson_28

- Track 210 : LeMond_26
- Track 211 : Ganymede_28, QuincyRose_26
- Track 212 : Apocalypse_27
- Track 213 : Bella96_27
- Track 214 : TaiwanKao_28
- Track 215 : Beezoo_27
- Track 216 : TiniBug_27
- Track 217 : CrimD_27
- Track 218 : Bern_29
- Track 219 : Tiri_27
- Track 220 : Chris_26
- Track 221 : Oscar_26
- Track 222 : KiSi_26
- Track 223 : Ageofdapage_27
- Track 224 : Scarlett_26
- Track 225 : Nibb_26
- Track 226 : LaterM_27
- Track 227 : Marshawn_28
- Track 228 : SirPhilip_26
- Track 229 : Aminay_25
- Track 230 : Vagabond_58, Krili_57, SchoolBus_58, Idergollasper_58, Mori_58, Wogge42_57, KingPhillip3_57, Alkhayr_56, Schuy_59, Familton_59, Winget_59, MadKillah_59, NiebruSaylor_57, Blessica_59, TelAviv_55, Catdawg_58, JangDynasty_58, FoulBall_58, Vorrps_58
- Track 231 : YungJamal_63, Wildflower_58, Corndog_61, Shida_58, Dylan_58, Murai_59, Ashwin_60, Zakhe101_58
- Track 232 : Ryadel_62
- Track 233 : Smooch_61, Firecracker_59
- Track 234 : Bora_56
- Track 235 : Zebo_57
- Track 236 : Shipwreck_20, Bogie_20
- Track 237 : Pygmy_20
- Track 238 : Zenon_31
- Track 239 : Rope_30, Send513_30, Candle_30
- Track 240 : Yelo_30
- Track 241 : Papyrus_30
- Track 242 : Weiss13_30
- Track 243 : MontyDev_30
- Track 244 : Nilo_31
- Track 245 : Riparian_30
- Track 246 : MaryV_43, Wildcat_43
- Track 247 : Cosmo_43
- Track 248 : Azrael100_42
- Track 249 : EniyanLRS_40
- Track 250 : Gaia_21
- Track 251 : Nebkiss_22
- Track 252 : Kumao_30
- Track 253 : MooMoo_18

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

The start number called the most often in the published annotations is 81, it was called in 221 of the 549 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alexphander_20, Aloeri_19, AlpineSix_18, ArcusAngelus_18, Ardmore_18, Ariel_36, Aubs_18, Awesomesauce_19, BAKA_36, Batiatus_18, Beakin_19, Bipolar_18, Blexus_18, BlueCrab_18, BobaPhett_18, Bobi_20, BodEinwohner17_18, Boomer_19, Brookers_19, Brushbloom_20, Bubbles123_19, Burwell21_18, BuzzLyseyear_20, ByChance_18, Byougenkin_18, Cabrinians_18, CaptainTrips_19, Che8_18, CheesePuff_21, Chevrolet_18, ChickenDinner_19, Chuckly_18, Coco12_20, Corium_18, Cornucopia_19, Courthouse_36, DLane_18, DRBy19_18, DaWorst_20, DaddyRickover_18, Daenerys_18, Dante_18, DeadP_18, Deb65_18, DillTech15_18, DirtMcGirt_19, DmpstrDiver_37, DoRead_18, DocMcStuffins_19, Donkeykong_18, Doomphist_18, Dorothy_18, DosHalletts_19, DotProduct_18, Doug_19, Drago_19, Duke13_36, Eish_18, EleanorGeorge_18, EmiMonkey_18, Emma_18, Emmaloid_20, Empress_19, Enby_19, Eradicator_18, Estave1_18, Fancypants_18, Fastidio_18, Filuzino_18, Firehouse51_19, Flathead_19, Florinda_18, Frankie_19, FreddyB_18, Fruitloop_18, GUmbie_18, Galactic_18, Gandolph_18, Geralt_18, GigiOuiOui_18, Girafales_19, Girr_18, Gorge_18, Grimmer_19, Guppsters_19, Hades_18, Hamulus_18, Hannaconda_33, Harley_18, Hegedechwinu_19, Hlubikazi_18, IMpilo_18, IbOuu_18, Ibhubesi_18, Inventum_18, IrishSherpFalk_19, JalFarm20_20, James_18, Jant_18, Jarcob_18, Jinglebell_17, Job42_21, JoeyJr_18, Juice456_20, Juniper1_18, Karhdo_18, KashFlow_30, Kenuha5_18, Kersh_19, Kimberlium_20, KingJulian_18, KingMidas_19, Kingsley_19, Krakatau_19, KristaRAM_19, Latretium_19, Leozinho_19, Leperchaun_18, LilMoolah_18, LittleE_39, LittleShirley_19, Lizziana_18, Llama_18, Llij_18, Lorde_19, Lucky2013_36, LunaBlu_19, MadMen_19, Madiba_19, Mahavrat_18, Mandlovu_18, Mantra_18, Maravista_18, Marker_19, Martik_18, Mattes_18, MiaZeal_36, MilleniumForce_19, Minerva_39, MinionDave_19, Minnie_19, Misha28_19, MisterCuddles_18, Modragons_18, MooMoo_18, Moonbeam_19, Mova_19, Mozy_19, MulchExplorer_21, Mutaforma13_18, NewHope4_19, Nimbo_18, Nitzel_19, Nivrat_18, NormanBulbieJr_18, Ochi17_18, OfUltron_18, Ogopogo_21, Oksu_19, OldBen_18, OlympiaSaint_18, Omega_38, Optimus_37, Ovechkin_18, OwlsT2W_20, PHappiness_18, PMC_18, Pacc40_18, Phalconet_18, Phanphagia_18, Phasih_19, Phatniss_19, PhesterPhotato_18, Philus_18, PhilipPhlop_18, Piper2020_19, Plumbus_19, Poenanya_18, Polka14_19, Pollywog_21, Polo2Bam_20, PopTart_18, Porcelain_35, Priscilla_18, QuickMath_19, Quico_19, Radiance_18, Ramsey_19, RedBird_18, Rialto_20, RitaG_18, Rita_18, Rockne_18, RockyHorror_19, Royals2015_18, Ruby_18, SG4_18, Saal_18, Sabb_19, Sandalphon_19, Sassafras_18, SassyB_18, Scottish_19, Seabastian_18, Seagreen_19, Shaboozey_30, Shauna1_18, ShiLan_18, ShowerHandel_18, ShroomBoi_18, SiSi_18, SimranZ1_19, Slim_20, Sparkdehlily_18, Spartacus_19, Spikelee_19, Spoonbill_18, Squint_35, StAnnes_18, Stap_19, Starcevic_19, Strokeseat_18, SuperGrey_19, Superphikiman_36, SwagPigglett_18, TDanisky_18, Taj_18, Tchochke_19, TootsiePop_19, Tootsieroll_19, Totinger_19, Tweety_18, UncleRicky_19, VRedHorse_18, Veteran_18, Violac_19, Vivum_18, Wachhund_18, Wanda_39, Wee_19, Whatsapiecost_18, Whouxphf_18, WillSterrel_19, XFactor_18, Yorick_18, Zerg_18, Zizzle_18,

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

- Avani_24, Che9d_24, Demsculpinboyz_24, Gonephishing_34, Jabbawokkie_26, Melissauren88_18, Soul22_24, Yoshi_24, Zapner_25,

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

• 244_28, 39HC_026, 40BC_026, ABCat_25, ActinUp_27, Adephagia_27, Adjutor_31, Adnama_29, Adonis_27, Ageofdapage_27, AlishaPH_27, Alkhayr_56, Amao_26, AmericanBeauty_28, Aminay_25, Anaya_28, Angelica_27, Antsirabe_22, Apocalypse_27, Argent26_28, Asayake_27, Ashwin_60, Asriel_25, Atiba_27, Avocado_22, Azrael100_42, BEEST_27, BGlluviae_27, BaboJay_25, BadStone_25, BaghaKamala_27, Balomoji_25, Barbarian_25, Barnyard_36, BarrelRoll_27, Bask21_26, Beckerton_29, Becksu_26, Beezoo_27, Bella96_27, Belladonna_27, Bench_28, Bern_29, BigBubba_27, BigMama_28, BilboSwaggins_26, BirdsNest_33, Blarby_25, Blessica_59, Blizzard_27, Bogie_20, Boiiii_27, Bora_56, Bruin_26, Brujita_21, Buck_25, BugsBunny_24, Butterscotch_30, CREW_27, Cactus_27, CallaLilly_28, Cambiare_23, Candle_30, Capricorn_27, CaseJules_27, Catdawg_58, Cborch11_30, CheetoDust_27, Chill_31, ChosenOne_25, ChotaBhai_26, Chris_26, Cjw1_26, Clipper_29, Command613_27, Contagion_25, Cookies_26, Corndog_61, Cornie_20, Cosmo_43, CrimD_27, CrystalP_26, Czyszczonek_27, Daikon_24, Dalmuri_27, Damien_29, Deby_27, Delton_30, Devera_27, DoctorDiddles_26, Dole_27, DrDrey_27, DrHayes_27, DrLupo_38, Dumbo_26, Durfee_27, Dusk_25, Dylan_58, Easy2Say_28, Efra2_27, Elite2014_25, Elph10_27, Emerson_27, Emmina_27, EniyanLRS_40, Erk16_30, Eureka_26, FairyPath_26, FAMILTON_59, Filch_27, FireRed_26, Firecracker_59, FlagStaff_22, Flypotenuse_24, FoghornLeghorn_25, ForDig_27, FoulBall_58, Fowlmouth_24, Funsized_34, Gage_28, Gaia_21, Ganymede_28, Gator_24, Gemini_29, Geraldini_27, Giuseppe_30, Glexan_24, Goku_26, GoldenSpark_28, Goldilocks_27, GooberAzure_28, Guanica15_27, Gumball_29, HanKaySha_27, Harella_25, Hawkeye_32, HedwigODU_27, Helpful_31, Henry_26, Highbury_27, Holt_27, Homura_27, Hoonter_28, Hopey_28, Hosp_024, HufflyPuff_25, Hyperbowlee_27, IHOP_26, Icee_25, Idergollasper_58, Illumine_27, Inca_25, Indlulamithi_27, Inky_27, Island3_21, JAWS_27, JangDynasty_58, Jarvi_27, Jayhawk_27, JeTaimie_28, Jeckyll_27, Jolie1_026, Jolie2_22, Joy99_27, KandZ_30, Kanye_28, KayaCho_26, KiSi_26, Kimchi_28, KingPhillip3_57, Konstantine_34, Kostya_26, Krili_57, Kumao_30, LaterM_27, LeMond_26, Lemuria_23, LilMcDreamy_27, Lilac_28, Lilizi_28, Lilpickle_25, LindNT_27, Llorens_27, LunaStella_20, Lunahalos_27, MISSy_25, MOOREtheMARYer_23, MPhalcon_25, MacKat_28, MadKillah_59, MadamMonkfish_26, Manda_27, MarkPhew_27, Marshawn_28, Marshmallow_26, MaryV_43, Maxxinista_27, MeaningOfLife_27, Megatron06_31, Megsy_27, Mercurio_24, Mindy_26, Miniwave_26, Misfit_26, Moldemort_27, MontyDev_30, Mopey_30, Mori_58, Mosby_25, MrMiyagi_24, Murai_59, Murica_25, Murphy_27, Murucutumbu_27, Mynx_27, Myrale_26, Nala_26, Nebkiss_22, NelitzaMV_26, Nibb_26, NiebruSaylor_57, Nilo_31, Nimrod_26, NoShow_21, NoSleep_27, Nova_30, Oaker_29, OrionPax_27, Oscar_26, PBI1_30, PLOT_31, Pace1224_22, Padfoot_27, Padpat_27, Palpatine_26, Paperbeatsrock_28, Papyrus_30, Pat3_25, Peel_27, Penelope2018_30, Petra64142_28, Phaja_26, Phalaborwa_30, Pharsalus_27, PhatBacter_26, Phaux_25, Phreeze_29, Phrux_26, Piatt_27, Pinnie_23, Pokerus_26, Policronamos_26, Porky_26, Prager_30, Prithvi_27, Puissant_28, Pumpkin_28, Pygmy_20, Quallification_27, QuincyRose_26, Rakim_27, Ramen_27, Rapunzel97_27, Renaud18_20, Rimmer_25, Rinke_33, Riparian_30, RiverMonster_26, Rope_30, Rosmarinus_27, Ryadel_62, Saints25_27, SamuelLPlaqson_27, Sassay_25, Scarlett_26, SchoolBus_58, Schuy_59, Send513_30, ShamWow_26, ShereKhan_28, ShiaSurprise_27, Shida_58, Shipwreck_20, SilverChicken_24, Simpliphy_27, SirDuracell_25, SirHarley_29, SirPhilip_26, Slimphazie_27, Smooch_61, SophKB_26, Sotrice96_26, Spock_27, Stank_29, Stargaze_22, Stark_27, StellaBean_26, Stinson_28, StolenFromERC_28,

StormChicken_26, Sulley_27, TBrady12_28, Tachez_27, TaiwanKao_28, Tarkin_28, TeardropMSU_25, Teaspoon_27, TelAviv_55, Terminus_26, ThetaBob_20, Thimble_26, Thoth_30, Thresher_27, Thumb_29, TiniBug_27, Tiri_27, Tomaszewski_25, Topper_27, Toron_20, Toto_26, Traaww1_24, TreyKay_27, Troll4_30, TruffulaTree_27, Tuco_27, Twitch_27, Ukulele_26, Urkel_27, Vagabond_58, Veliki_27, Visconti_30, Vorrps_58, WaldoWhy_31, Weiss13_30, Wiggin_29, Wildcat_43, Wildflower_58, Willez_25, Winget_59, Wogge42_57, Xandras_28, YassJohnny_27, Yelo_30, Youngblood_26, YoureAdopted_26, YungJamal_63, Yunkel11_27, Zabiza_27, Zakhe101_58, Zavala_27, Zebo_57, Zenon_31, xkcd_27,

Summary by start number:

Start 1:

- Found in 1 of 609 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 549
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Indlulamithi_27 (AC),

Start 2:

- Found in 10 of 609 (1.6%) of genes in pham
- Manual Annotations of this start: 8 of 549
- Called 90.0% of time when present
- Phage (with cluster) where this start called: Candle_30 (R), Nilo_31 (R), Papyrus_30 (R), Riparian_30 (R), Rope_30 (R), Send513_30 (R), Weiss13_30 (R), Yelo_30 (R), Zenon_31 (R),

Start 3:

- Found in 2 of 609 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 549
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fowlmouth_24 (AC), MrMiyagi_24 (AC),

Start 5:

- Found in 10 of 609 (1.6%) of genes in pham
- Manual Annotations of this start: 1 of 549
- Called 10.0% of time when present
- Phage (with cluster) where this start called: MontyDev_30 (R),

Start 14:

- Found in 2 of 609 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 549
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Barnyard_36 (H2), DrLupo_38 (H2),

Start 35:

- Found in 9 of 609 (1.5%) of genes in pham
- Manual Annotations of this start: 8 of 549
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beckerton_29 (H1), Cborch11_30 (H1), Damien_29 (H1), Konstantine_34 (H1), Megatron06_31 (H1), Oaker_29 (H1), Phreeze_29 (H1), Puissant_28 (H1), Thumb_29 (H1),

Start 39:

- Found in 23 of 609 (3.8%) of genes in pham
- Manual Annotations of this start: 22 of 549
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adjutor_31 (D1), BigMama_28 (D1), Butterscotch_30 (D1), Chill_31 (D1), Delton_30 (D1), Erk16_30 (D1), Giuseppe_30 (D1), Gumball_29 (D1), Hawkeye_32 (D2), Helpful_31 (D1), KandZ_30 (D1), Mopey_30 (D1), Nova_30 (D1), PBI1_30 (D1), PLOT_31 (D1), Penelope2018_30 (D1), Phalaborwa_30 (D1), Prager_30 (D1), SirHarley_29 (D1), Thoth_30 (D1), Troll4_30 (D1), Visconti_30 (D1), WaldoWhy_31 (D1),

Start 65:

- Found in 7 of 609 (1.1%) of genes in pham
- Manual Annotations of this start: 7 of 549
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Avani_24 (F2), Che9d_24 (F2), Demsculpinboyz_24 (F2), Jabbawokkie_26 (F2), Soul22_24 (F2), Yoshi_24 (F2), Zapner_25 (F2),

Start 67:

- Found in 3 of 609 (0.5%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Blarby_25 (F),

Start 74:

- Found in 2 of 609 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 549
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gaia_21 (X), Nebkiss_22 (X),

Start 81:

- Found in 256 of 609 (42.0%) of genes in pham
- Manual Annotations of this start: 221 of 549
- Called 96.5% of time when present
- Phage (with cluster) where this start called: Alexphander_20 (F1), Aloeri_19 (F1), AlpineSix_18 (F1), ArcusAngelus_18 (F1), Ardmore_18 (F1), Ariel_36 (J), Aubs_18 (F1), Awesomesauce_19 (F1), BAKA_36 (J), Batiatus_18 (F1), Beakin_19 (F1), Bipolar_18 (F1), Blexus_18 (F1), BlueCrab_18 (F1), BobaPhett_18 (F1), Bobi_20 (F1), BodEinwohner17_18 (F1), Boomer_19 (F1), Brookers_19 (F1), Brushbloom_20 (F1), Bubbles123_19 (F1), Burwell21_18 (F1), BuzzLyseyear_20 (F1), ByChance_18 (F1), Byougenkin_18 (F1), Cabrinians_18 (F1), CaptainTrips_19 (F1), Che8_18 (F1), CheesePuff_21 (F1), Chevrolet_18 (F1), ChickenDinner_19 (F1), Chuckly_18 (F1), Coco12_20 (F1), Corium_18 (F1), Cornucopia_19 (F1), Courthouse_36 (J), DLane_18 (F1), DRBy19_18 (F1), DaWorst_20 (F1), DaddyRickover_18 (F1), Daenerys_18 (F1), Dante_18 (F1), DeadP_18 (F1), Deb65_18 (F1), DillTech15_18 (F1), DirtMcGirt_19 (F1), DmpstrDiver_37 (J), DoRead_18 (F1), DocMcStuffins_19 (F1), Donkeykong_18 (F1), Doomphist_18 (F1), Dorothy_18 (F1), DosHalletts_19 (F1), DotProduct_18 (F1), Doug_19 (F1), Drago_19 (F1), Duke13_36 (J), Eish_18 (F1), EleanorGeorge_18 (F1), EmiMonkey_18 (F1), Emma_18 (F1), Emmaloid_20 (F1), Empress_19 (F1), Enby_19 (F1), Eradicator_18 (F1), Estave1_18 (F1), Fancypants_18 (F1), Fastidio_18 (F1), Filuzino_18 (F1), Firehouse51_19 (F1), Flathead_19 (F1), Florinda_18 (F1), Frankie_19 (F1), FreddyB_18 (F1), Fruitloop_18

(F1), GUmbie_18 (F1), Galactic_18 (F1), Gandalph_18 (F1), Geralt_18 (F1), GigiOuiOui_18 (F1), Girafales_19 (F1), Girr_18 (F1), Gorge_18 (F1), Grimmer_19 (F1), Guppsters_19 (F1), Hades_18 (F1), Hamulus_18 (F1), Hannaconda_33 (J), Harley_18 (F1), Hegedechwinu_19 (F1), Hlubikazi_18 (F1), IMpilo_18 (F1), IbOuu_18 (F1), Ibhubesi_18 (F1), Inventum_18 (F1), IrishSherpFalk_19 (F1), JalFarm20_20 (F1), James_18 (F1), Jant_18 (F1), Jarcob_18 (F1), Jinglebell_17 (F1), Job42_21 (F1), JoeyJr_18 (F1), Juice456_20 (F1), Juniper1_18 (F1), Karhdo_18 (F1), KashFlow_30 (J), Kenuha5_18 (F1), Kersh_19 (F1), Kimberlium_20 (F1), KingJulian_18 (F1), KingMidas_19 (F1), Kingsley_19 (F1), Krakatau_19 (F1), KristaRAM_19 (F1), Latretium_19 (F1), Leozinho_19 (F1), Leperchaun_18 (F1), LilMoolah_18 (F1), LittleE_39 (J), LittleShirley_19 (F1), Lizziana_18 (F1), Llama_18 (F1), Llij_18 (F1), Lorde_19 (F1), Lucky2013_36 (J), LunaBlu_19 (F1), MadMen_19 (F1), Madiba_19 (F1), Mahavrat_18 (F1), Mandlovu_18 (F1), Mantra_18 (F1), Maravista_18 (F1), Marker_19 (F1), Martik_18 (F1), Mattes_18 (F1), MiaZeal_36 (J), MilleniumForce_19 (F1), Minerva_39 (J), MinionDave_19 (F1), Minnie_19 (F1), Misha28_19 (F1), MisterCuddles_18 (F1), Modragons_18 (F1), MooMoo_18 (singleton), Moonbeam_19 (F1), Mova_19 (F1), Mozy_19 (F1), MulchExplorer_21 (F1), Mutaforma13_18 (F1), NewHope4_19 (F1), Nimbo_18 (F1), Nitzel_19 (F1), Nivrat_18 (F1), NormanBulbieJr_18 (F1), Ochi17_18 (F1), OfUltron_18 (F1), OgoPogo_21 (F1), Oksu_19 (F1), OldBen_18 (F1), OlympiaSaint_18 (F1), Omega_38 (J), Optimus_37 (J), Ovechkin_18 (F1), OwlsT2W_20 (F1), PHappiness_18 (F1), PMC_18 (F1), Pacc40_18 (F1), Phalconet_18 (F1), Phanphagia_18 (F1), Phasih_19 (F1), Phatniss_19 (F1), PhesterPhotato_18 (F1), Philus_18 (F1), PhlipPhlop_18 (F1), Piper2020_19 (F1), Plumbus_19 (F1), Poenanya_18 (F1), Polka14_19 (F1), Pollywog_21 (F1), Polo2Bam_20 (F1), PopTart_18 (F1), Porcelain_35 (J), Priscilla_18 (F1), QuickMath_19 (F1), Quico_19 (F1), Radiance_18 (F1), Ramsey_19 (F1), RedBird_18 (F1), Rialto_20 (F1), RitaG_18 (F1), Rita_18 (F1), Rockne_18 (F1), RockyHorror_19 (F1), Royals2015_18 (F1), Ruby_18 (F1), SG4_18 (F1), Saal_18 (F1), Sabbb_19 (F1), Sandalphon_19 (F1), Sassafras_18 (F1), SassyB_18 (F1), Scottish_19 (F1), Seabastian_18 (F1), Seagreen_19 (F1), Shaboozey_30 (J), Shauna1_18 (F1), ShiLan_18 (F1), ShowerHandel_18 (F1), ShroomBoi_18 (F1), SiSi_18 (F1), SimranZ1_19 (F1), Slim_20 (F1), Sparkdehlily_18 (F1), Spartacus_19 (F1), Spikelee_19 (F1), Spoonbill_18 (F1), Squint_35 (J), StAnnes_18 (F1), Stap_19 (F1), Starceвич_19 (F1), Strokeseat_18 (F1), SuperGrey_19 (F1), Superphikiman_36 (J), SwagPiggett_18 (F1), TDanisky_18 (F1), Taj_18 (F1), Tchotchke_19 (F1), TootsiePop_19 (F1), Tootsieroll_19 (F1), Totinger_19 (F1), Tweety_18 (F1), UncleRicky_19 (F1), VRedHorse_18 (F1), Veteran_18 (F1), Violac_19 (F1), Vivum_18 (F1), Wachhund_18 (F1), Wanda_39 (J), Wee_19 (F1), Whatsapiecost_18 (F1), Whouxphf_18 (F1), WillSterrel_19 (F1), XFactor_18 (F1), Yorick_18 (F1), Zerg_18 (F1), Zizzle_18 (F1),

Start 82:

- Found in 2 of 609 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 549
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Brujita_21 (I1), Island3_21 (I1),

Start 83:

- Found in 6 of 609 (1.0%) of genes in pham
- Manual Annotations of this start: 6 of 549
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Azrael100_42 (V), Cosmo_43 (V), EniyanLRS_40 (V), Kumao_30 (singleton), MaryV_43 (V), Wildcat_43 (V),

Start 84:

- Found in 2 of 609 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 549
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Cornie_20 (F5),

Start 85:

- Found in 3 of 609 (0.5%) of genes in pham
- Manual Annotations of this start: 3 of 549
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LunaStella_20 (F4), Renaud18_20 (F4), ThetaBob_20 (F4),

Start 88:

- Found in 3 of 609 (0.5%) of genes in pham
- Manual Annotations of this start: 3 of 549
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bogie_20 (P1), Pygmy_20 (P1), Shipwreck_20 (P1),

Start 90:

- Found in 11 of 609 (1.8%) of genes in pham
- Manual Annotations of this start: 8 of 549
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Antsirabe_22 (G5), Avocado_22 (G2), Cambiare_23 (G2), FlagStaff_22 (G2), Jolie2_22 (G4), Lemuria_23 (G4), MOOREtheMARYer_23 (G3), Mercurio_24 (G4), Pace1224_22 (G2), Pinnie_23 (G3), Stargaze_22 (G5),

Start 93:

- Found in 1 of 609 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 549
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BirdsNest_33 (B13),

Start 94:

- Found in 12 of 609 (2.0%) of genes in pham
- Manual Annotations of this start: 4 of 549
- Called 75.0% of time when present
- Phage (with cluster) where this start called: 39HC_026 (B6), 40BC_026 (B6), ForDig_27 (B6), Funsized_34 (B9), Hosp_024 (B6), Jolie1_026 (B6), KayaCho_26 (B6), LilMcDreamy_27 (B12), Rinkes_33 (B9),

Start 96:

- Found in 32 of 609 (5.3%) of genes in pham
- Manual Annotations of this start: 28 of 549
- Called 96.9% of time when present
- Phage (with cluster) where this start called: Alkhayr_56 (O), Ashwin_60 (O), Blessica_59 (O), Bora_56 (O), Catdawg_58 (O), Corndog_61 (O), Dylan_58 (O), Familton_59 (O), Firecracker_59 (O), FoulBall_58 (O), Idergollasper_58 (O), JangDynasty_58 (O), KingPhillip3_57 (O), Krili_57 (O), MadKillah_59 (O), Mori_58 (O), Murai_59 (O), NiebruSaylor_57 (O), Ryadel_62 (O), SchoolBus_58 (O),

Schuy_59 (O), Shida_58 (O), Smooch_61 (O), TelAviv_55 (O), Vagabond_58 (O), Vorrrps_58 (O), Wildflower_58 (O), Winget_59 (O), Wogge42_57 (O), YungJamal_63 (O), Zakhe101_58 (O),

Start 104:

- Found in 186 of 609 (30.5%) of genes in pham
- Manual Annotations of this start: 1 of 549
- Called 0.5% of time when present
- Phage (with cluster) where this start called: Melissauren88_18 (F1),

Start 108:

- Found in 54 of 609 (8.9%) of genes in pham
- No Manual Annotations of this start.
- Called 1.9% of time when present
- Phage (with cluster) where this start called: Zebo_57 (O),

Start 122:

- Found in 15 of 609 (2.5%) of genes in pham
- No Manual Annotations of this start.
- Called 6.7% of time when present
- Phage (with cluster) where this start called: SilverChicken_24 (F2),

Start 126:

- Found in 138 of 609 (22.7%) of genes in pham
- Manual Annotations of this start: 125 of 549
- Called 97.8% of time when present
- Phage (with cluster) where this start called: 244_28 (E), ABCat_25 (E), Adnama_29 (E), Amao_26 (E), AmericanBeauty_28 (E), Argent26_28 (E), Asriel_25 (E), BaboJay_25 (E), BadStone_25 (E), Balomoji_25 (E), Barbarian_25 (E), Bask21_26 (E), Becksu_26 (E), Bench_28 (E), BigBubba_27 (E), BilboSwaggins_26 (E), Bruin_26 (E), Buck_25 (E), BugsBunny_24 (E), Cactus_27 (E), ChosenOne_25 (E), ChotaBhai_26 (E), Cjw1_26 (E), Command613_27 (E), Contagion_25 (E), Cookies_26 (E), CrystalP_26 (E), Czystczon1_27 (E), Daikon_24 (E), DoctorDiddles_26 (E), DrDrey_27 (E), Dumbo_26 (E), Dusk_25 (E), Easy2Say_28 (E), Elite2014_25 (E), Elph10_27 (E), Emmina_27 (E), Eureka_26 (E), FairyPath_26 (E), Filch_27 (E), FireRed_26 (E), Flypotenuse_24 (E), FoghornLeghorn_25 (E), Gage_28 (E), Gator_24 (E), Gemini_29 (E), Glexan_24 (E), Goku_26 (E), GoldenSpark_28 (E), Goldilocks_27 (E), GooberAzure_28 (E), HanKaySha_27 (E), Harella_25 (E), Henry_26 (E), Highbury_27 (E), Holt_27 (E), Hoonter_28 (E), Hopey_28 (E), HufflyPuff_25 (E), IHOP_26 (E), Icee_25 (E), Inca_25 (E), JeTaimie_28 (E), Kanye_28 (E), Kimchi_28 (E), Kostya_26 (E), Lilac_28 (E), Lilizi_28 (E), Lilpickle_25 (E), MISSy_25 (E), MPhalcon_25 (E), MadamMonkfish_26 (E), Manda_27 (E), Marshmallow_26 (E), Maxxinista_27 (E), Mindy_26 (E), Miniwave_26 (E), Misfit_26 (E), Moldemort_27 (E), Mosby_25 (E), Murica_25 (E), Murphy_27 (E), Myrale_26 (E), Nala_26 (E), NelitzaMV_26 (E), Nimrod_26 (E), NoSleep_27 (E), OrionPax_27 (E), Palpatine_26 (E), Paperbeatsrock_28 (E), Pat3_25 (E), Petra64142_28 (E), Phaja_26 (E), Pharsalus_27 (E), PhatBacter_26 (E), Phaux_25 (E), Phrux_26 (E), Policronamos_26 (E), Porky_26 (E), Pumpkin_28 (E), Quallification_27 (E), Rakim_27 (E), Rimmer_25 (E), RiverMonster_26 (E), Saints25_27 (E), Sassay_25 (E), ShamWow_26 (E), ShereKhan_28 (E), Simpliphy_27 (E), SirDuracell_25 (E), SophKB_26 (E), Sotrice96_26 (E), Stank_29 (E), Stark_27 (E), StellaBean_26 (E), StolenFromERC_28 (E), StormChicken_26 (E), TBrady12_28 (E), Tarkin_28 (E), TeardropMSU_25 (E), Teaspoon_27 (E),

Terminus_26 (E), Thimble_26 (E), Thresher_27 (E), Tomaszewski_25 (E), Toto_26 (E), Traaww1_24 (E), Tuco_27 (E), Ukulele_26 (E), Wiggin_29 (E), Willez_25 (E), Xandras_28 (E), YassJohnny_27 (E), Youngblood_26 (E), xkcd_27 (E),

Start 134:

- Found in 97 of 609 (15.9%) of genes in pham
- Manual Annotations of this start: 92 of 549
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ActinUp_27 (K1), Adephagia_27 (K1), Adonis_27 (K1), Ageofdapage_27 (K1), AlishaPH_27 (K1), Aminay_25 (K7), Anaya_28 (K1), Angelica_27 (K1), Apocalypse_27 (K1), Asayake_27 (K1), Atiba_27 (K1), BEEST_27 (K1), BGlluviae_27 (K1), BaghaKamala_27 (K1), BarrelRoll_27 (K1), Beezoo_27 (K1), Bella96_27 (K1), Belladonna_27 (K1), Bern_29 (K1), Blizzard_27 (K1), Boiiii_27 (K1), CREW_27 (K1), CallaLilly_28 (K1), Capricorn_27 (K1), CaseJules_27 (K1), CheetoDust_27 (K1), Chris_26 (K1), Clipper_29 (K1), CrimD_27 (K1), Dalmuri_27 (K1), Deby_27 (K1), Devera_27 (K1), Dole_27 (K1), DrHayes_27 (K1), Durfee_27 (K1), Efra2_27 (K1), Emerson_27 (K1), Ganymede_28 (K1), Geraldini_27 (K1), Guanica15_27 (K1), HedwigODU_27 (K1), Homura_27 (K1), Hyperbowlee_27 (K1), Illumine_27 (K1), Inky_27 (K1), JAWS_27 (K1), Jarvi_27 (K1), Jayhawk_27 (K1), Jeckyll_27 (K1), Joy99_27 (K1), KiSi_26 (K1), LaterM_27 (K1), LeMond_26 (K1), LindNT_27 (K1), Llorens_27 (K1), Lunahalos_27 (K1), MacKat_28 (K1), MarkPheW_27 (K1), Marshawn_28 (K6), MeaningOfLife_27 (K1), Megsy_27 (K1), Murucutumbu_27 (K1), Mynx_27 (K1), Nibb_26 (K1), Oscar_26 (K1), Padfoot_27 (K1), Padpat_27 (K1), Peel_27 (K1), Piatt_27 (K1), Pokerus_26 (K1), Prithvi_27 (K1), QuincyRose_26 (K1), Ramen_27 (K1), Rapunzel97_27 (K1), Rosmarinus_27 (K1), SamuelLPlaqson_27 (K1), Scarlett_26 (K1), ShiaSurprise_27 (K1), SirPhilip_26 (K6), Slimphazie_27 (K1), Spock_27 (K1), Stinson_28 (K1), Sulley_27 (K1), Tachez_27 (K1), TaiwanKao_28 (K1), TiniBug_27 (K1), Tiri_27 (K1), Topper_27 (K1), TreyKay_27 (K1), TruffulaTree_27 (K1), Twitch_27 (K1), Urkel_27 (K1), Veliki_27 (K1), YoureAdopted_26 (K1), Yunkel11_27 (K1), Zabiza_27 (K1), Zavala_27 (K1),

Start 150:

- Found in 1 of 609 (0.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Toron_20 (F6),

Start 161:

- Found in 1 of 609 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 549
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NoShow_21 (AB),

Start 167:

- Found in 276 of 609 (45.3%) of genes in pham
- No Manual Annotations of this start.
- Called 0.4% of time when present
- Phage (with cluster) where this start called: Gonephishing_34 (J),

Summary by clusters:

There are 32 clusters represented in this pham: singleton, K1, AB, K7, K6, G5, G4, G3, G2, I1, B13, AC, P1, E, F, J, O, R, V, X, F1, F2, F4, F5, F6, H2, H1, B6, B12, D2, B9, D1,

Info for manual annotations of cluster AB:

- Start number 161 was manually annotated 1 time for cluster AB.

Info for manual annotations of cluster AC:

- Start number 1 was manually annotated 1 time for cluster AC.
- Start number 3 was manually annotated 2 times for cluster AC.

Info for manual annotations of cluster B12:

- Start number 94 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B13:

- Start number 93 was manually annotated 1 time for cluster B13.

Info for manual annotations of cluster B6:

- Start number 94 was manually annotated 1 time for cluster B6.

Info for manual annotations of cluster B9:

- Start number 94 was manually annotated 2 times for cluster B9.

Info for manual annotations of cluster D1:

- Start number 39 was manually annotated 21 times for cluster D1.

Info for manual annotations of cluster D2:

- Start number 39 was manually annotated 1 time for cluster D2.

Info for manual annotations of cluster E:

- Start number 126 was manually annotated 125 times for cluster E.

Info for manual annotations of cluster F1:

- Start number 81 was manually annotated 203 times for cluster F1.
- Start number 104 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster F2:

- Start number 65 was manually annotated 7 times for cluster F2.

Info for manual annotations of cluster F4:

- Start number 85 was manually annotated 3 times for cluster F4.

Info for manual annotations of cluster F5:

- Start number 84 was manually annotated 1 time for cluster F5.

Info for manual annotations of cluster G2:

- Start number 90 was manually annotated 3 times for cluster G2.

Info for manual annotations of cluster G3:

- Start number 90 was manually annotated 2 times for cluster G3.

Info for manual annotations of cluster G4:

- Start number 90 was manually annotated 2 times for cluster G4.

Info for manual annotations of cluster G5:

- Start number 90 was manually annotated 1 time for cluster G5.

Info for manual annotations of cluster H1:

- Start number 35 was manually annotated 8 times for cluster H1.

Info for manual annotations of cluster H2:

- Start number 14 was manually annotated 2 times for cluster H2.

Info for manual annotations of cluster I1:

- Start number 82 was manually annotated 2 times for cluster I1.

Info for manual annotations of cluster J:

- Start number 81 was manually annotated 17 times for cluster J.

Info for manual annotations of cluster K1:

- Start number 134 was manually annotated 89 times for cluster K1.

Info for manual annotations of cluster K6:

- Start number 134 was manually annotated 2 times for cluster K6.

Info for manual annotations of cluster K7:

- Start number 134 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster O:

- Start number 96 was manually annotated 28 times for cluster O.

Info for manual annotations of cluster P1:

- Start number 88 was manually annotated 3 times for cluster P1.

Info for manual annotations of cluster R:

- Start number 2 was manually annotated 8 times for cluster R.
- Start number 5 was manually annotated 1 time for cluster R.

Info for manual annotations of cluster V:

- Start number 83 was manually annotated 5 times for cluster V.

Info for manual annotations of cluster X:

- Start number 74 was manually annotated 2 times for cluster X.

Gene Information:

Gene: 244_28 Start: 22564, Stop: 24960, Start Num: 126

Candidate Starts for 244_28:

(Start: 126 @22564 has 125 MA's), (195, 22741), (206, 22762), (264, 22909), (294, 23083), (302, 23116), (309, 23152), (350, 23245), (367, 23305), (374, 23323), (406, 23455), (422, 23500), (453, 23632), (462, 23677), (478, 23737), (510, 23851), (514, 23872), (522, 23911), (525, 23932), (527, 23947), (560, 24097), (562, 24103), (565, 24121), (580, 24175), (598, 24259), (618, 24352), (661,

24598), (696, 24814), (706, 24898), (712, 24931),

Gene: 39HC_026 Start: 27572, Stop: 30067, Start Num: 94

Candidate Starts for 39HC_026:

(Start: 94 @27572 has 4 MA's), (118, 27629), (136, 27686), (179, 27806), (185, 27824), (209, 27896), (212, 27902), (233, 27956), (244, 27992), (285, 28175), (292, 28220), (302, 28259), (318, 28307), (320, 28313), (342, 28361), (350, 28391), (358, 28418), (367, 28454), (373, 28472), (379, 28496), (385, 28520), (405, 28604), (418, 28640), (428, 28670), (438, 28706), (442, 28724), (483, 28931), (485, 28943), (488, 28952), (506, 29021), (508, 29027), (509, 29030), (511, 29039), (517, 29069), (525, 29114), (527, 29129), (545, 29210), (547, 29222), (550, 29240), (552, 29246), (554, 29261), (556, 29267), (576, 29348), (597, 29420), (602, 29438), (605, 29453), (635, 29663), (637, 29684), (642, 29702), (693, 29999),

Gene: 40BC_026 Start: 27572, Stop: 30067, Start Num: 94

Candidate Starts for 40BC_026:

(Start: 94 @27572 has 4 MA's), (118, 27629), (136, 27686), (179, 27806), (185, 27824), (209, 27896), (212, 27902), (233, 27956), (244, 27992), (285, 28175), (292, 28220), (302, 28259), (318, 28307), (320, 28313), (342, 28361), (350, 28391), (358, 28418), (367, 28454), (373, 28472), (379, 28496), (385, 28520), (405, 28604), (418, 28640), (428, 28670), (438, 28706), (442, 28724), (483, 28931), (485, 28943), (488, 28952), (506, 29021), (508, 29027), (509, 29030), (511, 29039), (517, 29069), (525, 29114), (527, 29129), (545, 29210), (547, 29222), (550, 29240), (552, 29246), (554, 29261), (556, 29267), (576, 29348), (597, 29420), (602, 29438), (605, 29453), (635, 29663), (637, 29684), (642, 29702), (693, 29999),

Gene: ABCat_25 Start: 22283, Stop: 24679, Start Num: 126

Candidate Starts for ABCat_25:

(Start: 126 @22283 has 125 MA's), (195, 22460), (206, 22481), (264, 22628), (288, 22769), (294, 22802), (302, 22835), (309, 22871), (350, 22964), (367, 23024), (374, 23042), (396, 23123), (453, 23351), (462, 23396), (514, 23591), (515, 23597), (517, 23606), (525, 23651), (527, 23666), (562, 23822), (565, 23840), (568, 23849), (581, 23903), (598, 23978), (599, 23981), (634, 24191), (636, 24203), (661, 24317), (696, 24533), (706, 24617), (710, 24641), (712, 24650),

Gene: ActinUp_27 Start: 20881, Stop: 23313, Start Num: 134

Candidate Starts for ActinUp_27:

(Start: 134 @20881 has 92 MA's), (174, 20980), (263, 21241), (267, 21262), (305, 21469), (318, 21502), (323, 21532), (347, 21604), (352, 21628), (365, 21673), (401, 21826), (412, 21871), (416, 21883), (420, 21892), (433, 21943), (467, 22123), (472, 22138), (487, 22207), (492, 22219), (517, 22324), (525, 22363), (526, 22369), (527, 22378), (544, 22459), (554, 22507), (575, 22582), (581, 22618), (603, 22699), (608, 22720), (623, 22813), (635, 22909), (665, 23056), (673, 23098), (679, 23137), (689, 23212),

Gene: Adephagia_27 Start: 20878, Stop: 23310, Start Num: 134

Candidate Starts for Adephagia_27:

(Start: 134 @20878 has 92 MA's), (174, 20977), (263, 21238), (267, 21259), (305, 21466), (318, 21499), (323, 21529), (347, 21601), (352, 21625), (365, 21670), (401, 21823), (412, 21868), (416, 21880), (420, 21889), (433, 21940), (467, 22120), (472, 22135), (487, 22204), (492, 22216), (517, 22321), (525, 22360), (526, 22366), (527, 22375), (544, 22456), (554, 22504), (575, 22579), (581, 22615), (603, 22696), (608, 22717), (623, 22810), (635, 22906), (665, 23053), (673, 23095), (679, 23134), (689, 23209),

Gene: Adjutor_31 Start: 24256, Stop: 26526, Start Num: 39

Candidate Starts for Adjutor_31:

(Start: 39 @24256 has 22 MA's), (59, 24391), (61, 24400), (102, 24574), (105, 24580), (108, 24592), (167, 24745), (173, 24760), (177, 24775), (277, 25156), (279, 25162), (284, 25207), (301, 25294), (370, 25495), (372, 25501), (382, 25549), (394, 25579), (400, 25603), (449, 25792), (456, 25819), (465, 25867), (482, 25939), (497, 25978), (503, 25999), (506, 26014), (511, 26032), (517, 26062), (536, 26146), (590, 26347), (600, 26389), (627, 26515),

Gene: Adnama_29 Start: 22791, Stop: 25187, Start Num: 126

Candidate Starts for Adnama_29:

(Start: 126 @22791 has 125 MA's), (195, 22968), (206, 22989), (264, 23136), (294, 23310), (302, 23343), (309, 23379), (350, 23472), (367, 23532), (374, 23550), (406, 23682), (422, 23727), (453, 23859), (462, 23904), (478, 23964), (510, 24078), (514, 24099), (522, 24138), (525, 24159), (527, 24174), (560, 24324), (562, 24330), (565, 24348), (580, 24402), (598, 24486), (618, 24579), (661, 24825), (696, 25041), (706, 25125), (712, 25158),

Gene: Adonis_27 Start: 20884, Stop: 23316, Start Num: 134

Candidate Starts for Adonis_27:

(Start: 134 @20884 has 92 MA's), (174, 20983), (263, 21244), (267, 21265), (305, 21472), (318, 21505), (323, 21535), (347, 21607), (352, 21631), (365, 21676), (401, 21829), (412, 21874), (416, 21886), (420, 21895), (433, 21946), (467, 22126), (472, 22141), (487, 22210), (508, 22285), (517, 22327), (525, 22366), (526, 22372), (527, 22381), (532, 22402), (544, 22462), (574, 22579), (581, 22621), (601, 22693), (603, 22702), (608, 22723), (619, 22795), (623, 22816), (635, 22912), (647, 22975), (673, 23101), (679, 23140), (696, 23287),

Gene: Ageofdapage_27 Start: 20828, Stop: 23260, Start Num: 134

Candidate Starts for Ageofdapage_27:

(Start: 134 @20828 has 92 MA's), (174, 20927), (176, 20930), (219, 21056), (263, 21188), (267, 21209), (289, 21341), (318, 21449), (347, 21551), (352, 21575), (358, 21593), (365, 21620), (381, 21686), (401, 21773), (416, 21830), (420, 21839), (430, 21875), (433, 21890), (467, 22070), (472, 22085), (492, 22166), (508, 22229), (517, 22271), (525, 22310), (526, 22316), (527, 22325), (544, 22406), (552, 22439), (554, 22454), (555, 22457), (569, 22511), (574, 22523), (601, 22637), (603, 22646), (635, 22856), (673, 23045), (679, 23084), (696, 23231),

Gene: Alexphander_20 Start: 17923, Stop: 20460, Start Num: 81

Candidate Starts for Alexphander_20:

(Start: 81 @17923 has 221 MA's), (92, 17944), (Start: 104 @17965 has 1 MA's), (121, 18004), (154, 18073), (159, 18082), (160, 18085), (167, 18103), (178, 18136), (184, 18151), (240, 18310), (241, 18313), (252, 18343), (256, 18358), (273, 18436), (276, 18457), (277, 18460), (287, 18526), (302, 18601), (303, 18607), (316, 18649), (318, 18655), (319, 18658), (335, 18691), (338, 18697), (350, 18727), (357, 18748), (365, 18778), (367, 18787), (397, 18895), (400, 18907), (401, 18916), (402, 18919), (403, 18928), (404, 18934), (410, 18949), (411, 18952), (419, 18973), (432, 19015), (440, 19048), (469, 19189), (471, 19195), (483, 19249), (484, 19252), (495, 19279), (511, 19339), (514, 19354), (516, 19366), (517, 19369), (528, 19435), (534, 19459), (537, 19480), (539, 19489), (552, 19549), (553, 19552), (562, 19588), (565, 19606), (571, 19618), (574, 19627), (579, 19654), (595, 19723), (598, 19741), (602, 19750), (604, 19762), (610, 19798), (615, 19828), (630, 19909), (635, 19963), (647, 20023), (652, 20065), (671, 20143), (681, 20200), (685, 20224), (692, 20278), (696, 20326), (703, 20368), (705, 20392), (706, 20395),

Gene: AlishaPH_27 Start: 20871, Stop: 23303, Start Num: 134

Candidate Starts for AlishaPH_27:

(Start: 134 @20871 has 92 MA's), (174, 20970), (263, 21231), (267, 21252), (305, 21459), (318, 21492), (323, 21522), (347, 21594), (352, 21618), (401, 21816), (412, 21861), (416, 21873), (420, 21882), (433, 21933), (467, 22113), (472, 22128), (487, 22197), (492, 22209), (508, 22272), (517, 22314), (525, 22353), (526, 22359), (527, 22368), (532, 22389), (544, 22449), (574, 22566), (581,

22608), (601, 22680), (603, 22689), (608, 22710), (619, 22782), (623, 22803), (635, 22899), (665, 23046), (679, 23127), (696, 23274),

Gene: Alkhayr_56 Start: 35810, Stop: 38320, Start Num: 96

Candidate Starts for Alkhayr_56:

(Start: 96 @35810 has 28 MA's), (108, 35843), (136, 35912), (137, 35915), (147, 35939), (160, 35963), (170, 35987), (178, 36020), (245, 36227), (248, 36239), (249, 36242), (281, 36389), (282, 36419), (287, 36443), (295, 36473), (296, 36476), (302, 36503), (305, 36527), (318, 36557), (344, 36614), (351, 36638), (363, 36674), (365, 36686), (373, 36710), (374, 36713), (382, 36755), (410, 36851), (411, 36854), (475, 37109), (514, 37253), (525, 37313), (536, 37385), (537, 37388), (558, 37484), (598, 37658), (604, 37679), (622, 37772), (625, 37784), (635, 37874), (650, 37949), (670, 37994), (699, 38195), (704, 38249), (709, 38264),

Gene: Aloeri_19 Start: 17271, Stop: 19796, Start Num: 81

Candidate Starts for Aloeri_19:

(Start: 81 @17271 has 221 MA's), (92, 17292), (Start: 104 @17313 has 1 MA's), (121, 17352), (154, 17421), (159, 17430), (160, 17433), (167, 17451), (178, 17484), (184, 17499), (202, 17547), (240, 17658), (241, 17661), (256, 17706), (273, 17784), (277, 17808), (287, 17874), (288, 17883), (302, 17949), (303, 17955), (305, 17973), (316, 17997), (318, 18003), (319, 18006), (335, 18039), (338, 18045), (350, 18075), (357, 18096), (367, 18135), (373, 18150), (375, 18156), (411, 18300), (428, 18351), (452, 18462), (463, 18513), (468, 18537), (495, 18630), (507, 18675), (510, 18684), (514, 18705), (516, 18717), (517, 18720), (525, 18765), (534, 18810), (536, 18828), (537, 18831), (547, 18882), (560, 18933), (562, 18939), (565, 18957), (571, 18969), (574, 18978), (580, 19011), (598, 19092), (612, 19161), (618, 19188), (623, 19215), (631, 19266), (635, 19314), (684, 19557), (696, 19662), (700, 19683), (708, 19737), (711, 19761),

Gene: AlpineSix_18 Start: 17634, Stop: 20171, Start Num: 81

Candidate Starts for AlpineSix_18:

(Start: 81 @17634 has 221 MA's), (92, 17655), (Start: 104 @17676 has 1 MA's), (121, 17715), (154, 17784), (159, 17793), (160, 17796), (167, 17814), (184, 17862), (240, 18021), (241, 18024), (255, 18066), (256, 18069), (273, 18147), (276, 18168), (277, 18171), (287, 18237), (288, 18246), (295, 18282), (302, 18312), (303, 18318), (316, 18360), (318, 18366), (319, 18369), (335, 18402), (338, 18408), (350, 18438), (357, 18459), (365, 18489), (367, 18498), (397, 18606), (400, 18618), (401, 18627), (402, 18630), (403, 18639), (404, 18645), (410, 18660), (411, 18663), (419, 18684), (432, 18726), (440, 18759), (469, 18900), (471, 18906), (483, 18960), (484, 18963), (495, 18990), (514, 19065), (516, 19077), (517, 19080), (528, 19146), (533, 19167), (534, 19170), (537, 19191), (547, 19242), (552, 19260), (553, 19263), (560, 19293), (565, 19317), (571, 19329), (595, 19434), (598, 19452), (602, 19461), (604, 19473), (610, 19509), (615, 19539), (620, 19560), (626, 19584), (630, 19620), (647, 19734), (652, 19776), (671, 19854), (681, 19911), (685, 19935), (692, 19989), (696, 20037), (703, 20079), (705, 20103), (706, 20106),

Gene: Amao_26 Start: 21488, Stop: 23884, Start Num: 126

Candidate Starts for Amao_26:

(Start: 126 @21488 has 125 MA's), (195, 21665), (206, 21686), (264, 21833), (288, 21974), (294, 22007), (309, 22076), (350, 22169), (367, 22229), (374, 22247), (406, 22379), (422, 22424), (453, 22556), (462, 22601), (510, 22775), (514, 22796), (522, 22835), (525, 22856), (527, 22871), (562, 23027), (565, 23045), (580, 23099), (598, 23183), (654, 23507), (696, 23738), (706, 23822), (712, 23855),

Gene: AmericanBeauty_28 Start: 22271, Stop: 24667, Start Num: 126

Candidate Starts for AmericanBeauty_28:

(Start: 126 @22271 has 125 MA's), (195, 22448), (206, 22469), (264, 22616), (288, 22757), (294, 22790), (302, 22823), (309, 22859), (350, 22952), (367, 23012), (374, 23030), (406, 23162), (422,

23207), (453, 23339), (462, 23384), (478, 23444), (510, 23558), (514, 23579), (522, 23618), (525, 23639), (527, 23654), (560, 23804), (562, 23810), (565, 23828), (580, 23882), (598, 23966), (618, 24059), (661, 24305), (696, 24521), (706, 24605), (712, 24638),

Gene: Aminay_25 Start: 21018, Stop: 23477, Start Num: 134

Candidate Starts for Aminay_25:

(Start: 134 @21018 has 92 MA's), (174, 21120), (228, 21264), (246, 21327), (257, 21360), (267, 21402), (304, 21609), (317, 21642), (329, 21693), (347, 21756), (350, 21771), (352, 21780), (353, 21786), (358, 21798), (389, 21921), (393, 21933), (409, 22011), (435, 22104), (438, 22119), (448, 22179), (462, 22251), (471, 22287), (480, 22332), (483, 22341), (495, 22380), (506, 22431), (508, 22437), (547, 22638), (554, 22677), (557, 22686), (608, 22878), (623, 22971), (641, 23109), (674, 23277),

Gene: Anaya_28 Start: 20897, Stop: 23329, Start Num: 134

Candidate Starts for Anaya_28:

(Start: 134 @20897 has 92 MA's), (136, 20906), (174, 20996), (263, 21257), (267, 21278), (318, 21518), (323, 21548), (352, 21644), (365, 21689), (401, 21842), (412, 21887), (416, 21899), (420, 21908), (433, 21959), (467, 22139), (472, 22154), (487, 22223), (517, 22340), (525, 22379), (526, 22385), (527, 22394), (544, 22475), (554, 22523), (555, 22526), (601, 22706), (603, 22715), (608, 22736), (623, 22829), (635, 22925), (647, 22988), (679, 23153), (689, 23228),

Gene: Angelica_27 Start: 20846, Stop: 23278, Start Num: 134

Candidate Starts for Angelica_27:

(Start: 134 @20846 has 92 MA's), (174, 20945), (263, 21206), (267, 21227), (305, 21434), (318, 21467), (323, 21497), (347, 21569), (352, 21593), (401, 21791), (412, 21836), (416, 21848), (420, 21857), (433, 21908), (467, 22088), (472, 22103), (487, 22172), (492, 22184), (508, 22247), (517, 22289), (525, 22328), (526, 22334), (527, 22343), (532, 22364), (544, 22424), (552, 22457), (554, 22472), (555, 22475), (569, 22529), (574, 22541), (601, 22655), (603, 22664), (608, 22685), (619, 22757), (623, 22778), (635, 22874), (679, 23102), (696, 23249),

Gene: Antsirabe_22 Start: 20760, Stop: 23216, Start Num: 90

Candidate Starts for Antsirabe_22:

(Start: 90 @20760 has 8 MA's), (123, 20850), (130, 20865), (131, 20868), (178, 20988), (207, 21063), (264, 21222), (285, 21339), (353, 21561), (368, 21612), (398, 21720), (400, 21729), (405, 21759), (409, 21771), (418, 21795), (426, 21816), (483, 22083), (486, 22098), (488, 22104), (508, 22179), (523, 22251), (525, 22266), (547, 22374), (554, 22413), (588, 22548), (602, 22590), (605, 22605), (608, 22617), (624, 22716), (642, 22854), (673, 23010), (693, 23154), (696, 23196),

Gene: Apocalypse_27 Start: 20849, Stop: 23281, Start Num: 134

Candidate Starts for Apocalypse_27:

(Start: 134 @20849 has 92 MA's), (158, 20906), (174, 20948), (263, 21209), (267, 21230), (305, 21437), (318, 21470), (323, 21500), (347, 21572), (352, 21596), (365, 21641), (401, 21794), (412, 21839), (416, 21851), (420, 21860), (433, 21911), (467, 22091), (472, 22106), (487, 22175), (492, 22187), (508, 22250), (517, 22292), (525, 22331), (526, 22337), (527, 22346), (532, 22367), (544, 22427), (552, 22460), (554, 22475), (555, 22478), (575, 22550), (581, 22586), (601, 22658), (603, 22667), (608, 22688), (619, 22760), (623, 22781), (635, 22877), (679, 23105), (696, 23252),

Gene: ArcusAngelus_18 Start: 17438, Stop: 19975, Start Num: 81

Candidate Starts for ArcusAngelus_18:

(Start: 81 @17438 has 221 MA's), (92, 17459), (Start: 104 @17480 has 1 MA's), (121, 17519), (154, 17588), (159, 17597), (160, 17600), (167, 17618), (178, 17651), (184, 17666), (240, 17825), (241, 17828), (252, 17858), (256, 17873), (273, 17951), (276, 17972), (277, 17975), (287, 18041), (302, 18116), (303, 18122), (316, 18164), (318, 18170), (319, 18173), (335, 18206), (338, 18212), (350,

18242), (357, 18263), (365, 18293), (367, 18302), (397, 18410), (400, 18422), (401, 18431), (402, 18434), (403, 18443), (404, 18449), (410, 18464), (411, 18467), (419, 18488), (432, 18530), (440, 18563), (469, 18704), (471, 18710), (483, 18764), (484, 18767), (495, 18794), (511, 18854), (514, 18869), (516, 18881), (517, 18884), (528, 18950), (534, 18974), (537, 18995), (539, 19004), (552, 19064), (553, 19067), (562, 19103), (565, 19121), (571, 19133), (574, 19142), (579, 19169), (595, 19238), (598, 19256), (602, 19265), (604, 19277), (610, 19313), (615, 19343), (630, 19424), (635, 19478), (647, 19538), (652, 19580), (671, 19658), (681, 19715), (685, 19739), (692, 19793), (696, 19841), (703, 19883), (705, 19907), (706, 19910),

Gene: Ardmore_18 Start: 17447, Stop: 19984, Start Num: 81

Candidate Starts for Ardmore_18:

(76, 17435), (Start: 81 @17447 has 221 MA's), (92, 17468), (Start: 104 @17489 has 1 MA's), (121, 17528), (154, 17597), (159, 17606), (160, 17609), (167, 17627), (178, 17660), (184, 17675), (202, 17723), (240, 17834), (241, 17837), (252, 17867), (255, 17879), (256, 17882), (273, 17960), (277, 17984), (287, 18050), (295, 18095), (302, 18125), (303, 18131), (305, 18149), (316, 18173), (319, 18182), (335, 18215), (338, 18221), (350, 18251), (363, 18290), (365, 18302), (367, 18311), (373, 18326), (374, 18329), (401, 18440), (402, 18443), (403, 18452), (404, 18458), (410, 18473), (411, 18476), (419, 18497), (428, 18527), (432, 18539), (440, 18572), (462, 18683), (463, 18686), (469, 18713), (471, 18719), (483, 18773), (484, 18776), (514, 18878), (516, 18890), (517, 18893), (528, 18959), (534, 18983), (537, 19004), (539, 19013), (552, 19073), (553, 19076), (562, 19112), (565, 19130), (571, 19142), (574, 19151), (579, 19178), (595, 19247), (598, 19265), (602, 19274), (604, 19286), (610, 19322), (615, 19352), (620, 19373), (630, 19433), (635, 19487), (647, 19547), (652, 19589), (681, 19724), (685, 19748), (692, 19802), (696, 19850), (703, 19892), (705, 19916), (706, 19919),

Gene: Argent26_28 Start: 22274, Stop: 24670, Start Num: 126

Candidate Starts for Argent26_28:

(Start: 126 @22274 has 125 MA's), (195, 22451), (206, 22472), (264, 22619), (288, 22760), (294, 22793), (302, 22826), (309, 22862), (350, 22955), (367, 23015), (374, 23033), (406, 23165), (422, 23210), (453, 23342), (462, 23387), (478, 23447), (510, 23561), (514, 23582), (522, 23621), (525, 23642), (527, 23657), (560, 23807), (562, 23813), (565, 23831), (580, 23885), (598, 23969), (618, 24062), (661, 24308), (696, 24524), (706, 24608), (712, 24641),

Gene: Ariel_36 Start: 27338, Stop: 29845, Start Num: 81

Candidate Starts for Ariel_36:

(Start: 81 @27338 has 221 MA's), (167, 27533), (178, 27569), (184, 27584), (224, 27671), (229, 27686), (256, 27761), (260, 27773), (267, 27800), (285, 27905), (292, 27944), (295, 27953), (302, 27977), (303, 27983), (305, 28001), (312, 28019), (319, 28034), (322, 28043), (326, 28052), (335, 28067), (346, 28094), (350, 28103), (363, 28142), (365, 28154), (367, 28163), (391, 28247), (411, 28328), (422, 28358), (423, 28361), (432, 28391), (439, 28418), (441, 28427), (450, 28478), (451, 28487), (453, 28490), (461, 28526), (465, 28547), (474, 28583), (515, 28736), (525, 28790), (534, 28835), (536, 28853), (537, 28856), (545, 28895), (578, 29042), (580, 29051), (596, 29120), (598, 29135), (630, 29300), (639, 29387), (649, 29435), (661, 29486), (677, 29564), (707, 29786), (709, 29789), (712, 29816),

Gene: Asayake_27 Start: 20912, Stop: 23344, Start Num: 134

Candidate Starts for Asayake_27:

(Start: 134 @20912 has 92 MA's), (174, 21011), (263, 21272), (267, 21293), (305, 21500), (318, 21533), (323, 21563), (347, 21635), (352, 21659), (401, 21857), (412, 21902), (416, 21914), (420, 21923), (433, 21974), (467, 22154), (472, 22169), (487, 22238), (492, 22250), (508, 22313), (517, 22355), (525, 22394), (526, 22400), (527, 22409), (532, 22430), (544, 22490), (574, 22607), (581, 22649), (601, 22721), (603, 22730), (608, 22751), (619, 22823), (623, 22844), (635, 22940), (665, 23087), (679, 23168), (696, 23315),

Gene: Ashwin_60 Start: 36580, Stop: 39090, Start Num: 96

Candidate Starts for Ashwin_60:

(Start: 96 @36580 has 28 MA's), (108, 36613), (136, 36682), (137, 36685), (147, 36709), (160, 36733), (170, 36757), (178, 36790), (245, 36997), (248, 37009), (249, 37012), (281, 37159), (282, 37189), (287, 37213), (295, 37243), (296, 37246), (302, 37273), (305, 37297), (318, 37327), (344, 37384), (363, 37444), (365, 37456), (373, 37480), (374, 37483), (382, 37525), (410, 37621), (411, 37624), (475, 37879), (514, 38023), (525, 38083), (536, 38155), (537, 38158), (558, 38254), (598, 38428), (604, 38449), (622, 38542), (625, 38554), (635, 38644), (650, 38719), (670, 38764), (699, 38965), (704, 39019), (709, 39034),

Gene: Asriel_25 Start: 21152, Stop: 23548, Start Num: 126

Candidate Starts for Asriel_25:

(Start: 126 @21152 has 125 MA's), (195, 21329), (206, 21350), (264, 21497), (288, 21638), (294, 21671), (302, 21704), (309, 21740), (350, 21833), (367, 21893), (374, 21911), (396, 21992), (453, 22220), (462, 22265), (514, 22460), (515, 22466), (517, 22475), (525, 22520), (527, 22535), (562, 22691), (565, 22709), (568, 22718), (581, 22772), (598, 22847), (599, 22850), (634, 23060), (636, 23072), (661, 23186), (696, 23402), (706, 23486), (710, 23510), (712, 23519),

Gene: Atiba_27 Start: 20841, Stop: 23273, Start Num: 134

Candidate Starts for Atiba_27:

(Start: 134 @20841 has 92 MA's), (174, 20940), (263, 21201), (267, 21222), (305, 21429), (318, 21462), (323, 21492), (347, 21564), (352, 21588), (365, 21633), (401, 21786), (412, 21831), (416, 21843), (420, 21852), (433, 21903), (467, 22083), (472, 22098), (487, 22167), (492, 22179), (517, 22284), (525, 22323), (526, 22329), (527, 22338), (544, 22419), (554, 22467), (575, 22542), (581, 22578), (601, 22650), (603, 22659), (608, 22680), (623, 22773), (635, 22869), (665, 23016), (673, 23058), (679, 23097), (689, 23172),

Gene: Aubs_18 Start: 17557, Stop: 20094, Start Num: 81

Candidate Starts for Aubs_18:

(Start: 81 @17557 has 221 MA's), (92, 17578), (Start: 104 @17599 has 1 MA's), (119, 17635), (121, 17638), (154, 17707), (159, 17716), (160, 17719), (167, 17737), (178, 17770), (184, 17785), (202, 17833), (238, 17938), (240, 17944), (241, 17947), (255, 17989), (256, 17992), (277, 18094), (287, 18160), (295, 18205), (302, 18235), (303, 18241), (305, 18259), (316, 18283), (319, 18292), (335, 18325), (338, 18331), (357, 18382), (363, 18400), (365, 18412), (367, 18421), (373, 18436), (375, 18442), (401, 18550), (402, 18553), (403, 18562), (404, 18568), (410, 18583), (411, 18586), (419, 18607), (428, 18637), (432, 18649), (440, 18682), (453, 18748), (462, 18793), (463, 18796), (469, 18823), (471, 18829), (483, 18883), (484, 18886), (495, 18913), (514, 18988), (516, 19000), (517, 19003), (528, 19069), (534, 19093), (539, 19123), (547, 19165), (552, 19183), (553, 19186), (562, 19222), (565, 19240), (574, 19261), (579, 19288), (595, 19357), (598, 19375), (602, 19384), (604, 19396), (610, 19432), (620, 19483), (624, 19501), (630, 19543), (635, 19597), (652, 19699), (671, 19777), (681, 19834), (685, 19858), (692, 19912), (696, 19960), (705, 20026), (706, 20029),

Gene: Avani_24 Start: 17093, Stop: 19642, Start Num: 65

Candidate Starts for Avani_24:

(63, 17084), (Start: 65 @17093 has 7 MA's), (Start: 81 @17153 has 221 MA's), (100, 17186), (101, 17189), (133, 17258), (145, 17288), (224, 17468), (229, 17483), (241, 17519), (242, 17525), (243, 17528), (254, 17546), (256, 17558), (260, 17570), (266, 17594), (267, 17597), (292, 17741), (295, 17750), (302, 17774), (305, 17798), (316, 17822), (318, 17828), (326, 17849), (328, 17852), (338, 17870), (350, 17900), (359, 17930), (365, 17951), (391, 18044), (396, 18059), (397, 18068), (401, 18089), (402, 18092), (415, 18134), (428, 18176), (429, 18179), (432, 18188), (439, 18215), (441, 18224), (447, 18263), (451, 18284), (453, 18287), (461, 18323), (465, 18344), (483, 18422), (484, 18425), (504, 18479), (516, 18539), (532, 18626), (534, 18632), (537, 18653), (545, 18689), (557,

18743), (560, 18752), (578, 18830), (581, 18848), (589, 18884), (591, 18887), (595, 18905), (596, 18908), (598, 18923), (610, 18980), (612, 18992), (630, 19088), (639, 19175), (649, 19223), (651, 19247), (657, 19274), (661, 19283), (670, 19322), (677, 19361), (681, 19385), (684, 19406), (696, 19502), (700, 19523), (707, 19583), (709, 19586), (712, 19613),

Gene: Avocado_22 Start: 20763, Stop: 23240, Start Num: 90

Candidate Starts for Avocado_22:

(Start: 90 @20763 has 8 MA's), (131, 20871), (169, 20961), (198, 21051), (264, 21228), (285, 21345), (305, 21444), (342, 21525), (353, 21567), (361, 21591), (368, 21618), (369, 21621), (373, 21633), (395, 21714), (405, 21765), (443, 21894), (445, 21906), (469, 22032), (483, 22092), (486, 22107), (488, 22113), (506, 22182), (547, 22383), (602, 22614), (624, 22740), (673, 23034), (681, 23085), (693, 23178),

Gene: Awesomesauce_19 Start: 17268, Stop: 19793, Start Num: 81

Candidate Starts for Awesomesauce_19:

(Start: 81 @17268 has 221 MA's), (92, 17289), (Start: 104 @17310 has 1 MA's), (121, 17349), (154, 17418), (159, 17427), (160, 17430), (167, 17448), (178, 17481), (184, 17496), (202, 17544), (240, 17655), (241, 17658), (256, 17703), (273, 17781), (277, 17805), (287, 17871), (295, 17916), (302, 17946), (303, 17952), (305, 17970), (316, 17994), (319, 18003), (335, 18036), (338, 18042), (350, 18072), (363, 18111), (365, 18123), (367, 18132), (373, 18147), (374, 18150), (411, 18297), (428, 18348), (452, 18459), (463, 18510), (468, 18534), (495, 18627), (507, 18672), (510, 18681), (514, 18702), (516, 18714), (517, 18717), (525, 18762), (534, 18807), (536, 18825), (537, 18828), (547, 18879), (560, 18930), (562, 18936), (565, 18954), (571, 18966), (574, 18975), (580, 19008), (598, 19089), (612, 19158), (618, 19185), (623, 19212), (631, 19263), (635, 19311), (684, 19554), (696, 19659), (700, 19680), (708, 19734), (711, 19758),

Gene: Azrael100_42 Start: 28340, Stop: 30907, Start Num: 83

Candidate Starts for Azrael100_42:

(Start: 83 @28340 has 6 MA's), (109, 28409), (164, 28532), (166, 28538), (167, 28541), (177, 28565), (182, 28586), (237, 28742), (239, 28748), (241, 28754), (249, 28784), (250, 28790), (256, 28811), (258, 28820), (271, 28880), (284, 28958), (303, 29057), (310, 29090), (318, 29105), (319, 29108), (338, 29147), (357, 29198), (363, 29216), (367, 29237), (370, 29243), (378, 29270), (382, 29297), (401, 29366), (408, 29390), (415, 29411), (422, 29432), (427, 29441), (432, 29462), (440, 29495), (441, 29498), (450, 29549), (466, 29627), (472, 29645), (479, 29684), (514, 29801), (523, 29846), (533, 29903), (537, 29927), (539, 29936), (542, 29954), (552, 29999), (560, 30032), (567, 30068), (609, 30242), (610, 30260), (611, 30266), (623, 30323), (680, 30647), (682, 30665), (690, 30716), (697, 30779), (705, 30854),

Gene: BAKA_36 Start: 29892, Stop: 32447, Start Num: 81

Candidate Starts for BAKA_36:

(Start: 81 @29892 has 221 MA's), (167, 30087), (178, 30123), (184, 30138), (202, 30186), (240, 30297), (241, 30300), (252, 30330), (256, 30345), (273, 30423), (277, 30447), (287, 30513), (295, 30558), (302, 30588), (303, 30594), (305, 30612), (316, 30636), (319, 30645), (335, 30678), (338, 30684), (350, 30714), (363, 30753), (365, 30765), (367, 30774), (373, 30789), (374, 30792), (401, 30903), (402, 30906), (403, 30915), (404, 30921), (410, 30936), (411, 30939), (419, 30960), (428, 30990), (432, 31002), (440, 31035), (453, 31101), (462, 31146), (463, 31149), (469, 31176), (471, 31182), (483, 31236), (484, 31239), (511, 31326), (514, 31341), (516, 31353), (517, 31356), (528, 31422), (537, 31467), (539, 31476), (552, 31536), (553, 31539), (562, 31575), (565, 31593), (571, 31605), (574, 31614), (579, 31641), (595, 31710), (598, 31728), (602, 31737), (604, 31749), (610, 31785), (615, 31815), (620, 31836), (626, 31860), (630, 31896), (635, 31950), (647, 32010), (652, 32052), (681, 32187), (685, 32211), (692, 32265), (696, 32313), (703, 32355), (705, 32379), (706, 32382),

Gene: BEEST_27 Start: 20912, Stop: 23344, Start Num: 134

Candidate Starts for BEEST_27:

(Start: 134 @20912 has 92 MA's), (174, 21011), (263, 21272), (267, 21293), (305, 21500), (318, 21533), (323, 21563), (347, 21635), (352, 21659), (401, 21857), (412, 21902), (416, 21914), (420, 21923), (433, 21974), (467, 22154), (472, 22169), (487, 22238), (492, 22250), (508, 22313), (517, 22355), (525, 22394), (526, 22400), (527, 22409), (532, 22430), (544, 22490), (574, 22607), (581, 22649), (601, 22721), (603, 22730), (608, 22751), (619, 22823), (623, 22844), (635, 22940), (665, 23087), (679, 23168), (696, 23315),

Gene: BGlluviae_27 Start: 20912, Stop: 23344, Start Num: 134

Candidate Starts for BGlluviae_27:

(Start: 134 @20912 has 92 MA's), (174, 21011), (263, 21272), (267, 21293), (305, 21500), (318, 21533), (323, 21563), (347, 21635), (352, 21659), (401, 21857), (412, 21902), (416, 21914), (420, 21923), (433, 21974), (467, 22154), (472, 22169), (487, 22238), (492, 22250), (508, 22313), (517, 22355), (525, 22394), (526, 22400), (527, 22409), (532, 22430), (544, 22490), (574, 22607), (581, 22649), (601, 22721), (603, 22730), (608, 22751), (619, 22823), (623, 22844), (635, 22940), (665, 23087), (679, 23168), (696, 23315),

Gene: BaboJay_25 Start: 21834, Stop: 24230, Start Num: 126

Candidate Starts for BaboJay_25:

(Start: 126 @21834 has 125 MA's), (195, 22011), (206, 22032), (264, 22179), (288, 22320), (294, 22353), (302, 22386), (309, 22422), (350, 22515), (367, 22575), (374, 22593), (406, 22725), (422, 22770), (453, 22902), (462, 22947), (510, 23121), (514, 23142), (522, 23181), (525, 23202), (527, 23217), (560, 23367), (562, 23373), (565, 23391), (580, 23445), (598, 23529), (618, 23622), (661, 23868), (696, 24084), (706, 24168), (712, 24201),

Gene: BadStone_25 Start: 22283, Stop: 24679, Start Num: 126

Candidate Starts for BadStone_25:

(Start: 126 @22283 has 125 MA's), (195, 22460), (206, 22481), (264, 22628), (288, 22769), (294, 22802), (302, 22835), (309, 22871), (350, 22964), (367, 23024), (396, 23123), (453, 23351), (462, 23396), (514, 23591), (515, 23597), (517, 23606), (525, 23651), (527, 23666), (562, 23822), (565, 23840), (568, 23849), (581, 23903), (598, 23978), (599, 23981), (634, 24191), (636, 24203), (661, 24317), (696, 24533), (706, 24617), (710, 24641), (712, 24650),

Gene: BaghaKamala_27 Start: 20841, Stop: 23273, Start Num: 134

Candidate Starts for BaghaKamala_27:

(Start: 134 @20841 has 92 MA's), (174, 20940), (263, 21201), (267, 21222), (305, 21429), (318, 21462), (323, 21492), (347, 21564), (352, 21588), (401, 21786), (412, 21831), (416, 21843), (420, 21852), (433, 21903), (467, 22083), (472, 22098), (487, 22167), (492, 22179), (508, 22242), (517, 22284), (525, 22323), (526, 22329), (527, 22338), (532, 22359), (544, 22419), (574, 22536), (581, 22578), (601, 22650), (603, 22659), (608, 22680), (619, 22752), (623, 22773), (635, 22869), (665, 23016), (679, 23097), (696, 23244),

Gene: Balomoji_25 Start: 22017, Stop: 24413, Start Num: 126

Candidate Starts for Balomoji_25:

(Start: 126 @22017 has 125 MA's), (195, 22194), (206, 22215), (264, 22362), (288, 22503), (294, 22536), (302, 22569), (309, 22605), (350, 22698), (367, 22758), (374, 22776), (396, 22857), (453, 23085), (462, 23130), (514, 23325), (515, 23331), (517, 23340), (525, 23385), (527, 23400), (562, 23556), (565, 23574), (568, 23583), (581, 23637), (598, 23712), (599, 23715), (634, 23925), (636, 23937), (661, 24051), (696, 24267), (706, 24351), (710, 24375), (712, 24384),

Gene: Barbarian_25 Start: 21152, Stop: 23548, Start Num: 126

Candidate Starts for Barbarian_25:

(Start: 126 @21152 has 125 MA's), (195, 21329), (206, 21350), (264, 21497), (288, 21638), (294, 21671), (302, 21704), (309, 21740), (350, 21833), (367, 21893), (374, 21911), (396, 21992), (453, 22220), (462, 22265), (514, 22460), (515, 22466), (517, 22475), (525, 22520), (527, 22535), (562, 22691), (565, 22709), (568, 22718), (581, 22772), (598, 22847), (599, 22850), (634, 23060), (636, 23072), (661, 23186), (696, 23402), (706, 23486), (710, 23510), (712, 23519),

Gene: Barnyard_36 Start: 26772, Stop: 29858, Start Num: 14

Candidate Starts for Barnyard_36:

(10, 26745), (Start: 14 @26772 has 2 MA's), (15, 26775), (21, 26895), (23, 26907), (24, 26925), (25, 26928), (26, 26982), (28, 26991), (30, 27012), (42, 27084), (47, 27120), (57, 27195), (68, 27273), (70, 27282), (72, 27288), (77, 27315), (119, 27432), (136, 27483), (137, 27486), (151, 27516), (163, 27540), (171, 27558), (210, 27690), (214, 27702), (242, 27783), (279, 27933), (292, 28017), (303, 28053), (320, 28107), (321, 28110), (325, 28128), (337, 28146), (348, 28182), (369, 28263), (384, 28323), (391, 28341), (400, 28377), (409, 28419), (415, 28431), (425, 28461), (428, 28473), (431, 28482), (447, 28557), (463, 28644), (488, 28752), (501, 28797), (506, 28818), (517, 28866), (524, 28905), (526, 28917), (529, 28941), (531, 28947), (537, 28977), (547, 29019), (550, 29037), (554, 29058), (561, 29079), (564, 29100), (570, 29118), (573, 29127), (582, 29181), (586, 29190), (602, 29232), (618, 29325), (625, 29358), (637, 29478), (644, 29505), (661, 29598), (673, 29652), (693, 29796),

Gene: BarrelRoll_27 Start: 20864, Stop: 23296, Start Num: 134

Candidate Starts for BarrelRoll_27:

(Start: 134 @20864 has 92 MA's), (174, 20963), (263, 21224), (267, 21245), (305, 21452), (318, 21485), (323, 21515), (347, 21587), (352, 21611), (401, 21809), (412, 21854), (416, 21866), (420, 21875), (433, 21926), (467, 22106), (472, 22121), (487, 22190), (492, 22202), (508, 22265), (517, 22307), (525, 22346), (526, 22352), (527, 22361), (532, 22382), (544, 22442), (574, 22559), (581, 22601), (601, 22673), (603, 22682), (608, 22703), (619, 22775), (623, 22796), (635, 22892), (665, 23039), (679, 23120), (696, 23267),

Gene: Bask21_26 Start: 21463, Stop: 23859, Start Num: 126

Candidate Starts for Bask21_26:

(Start: 126 @21463 has 125 MA's), (195, 21640), (206, 21661), (264, 21808), (288, 21949), (294, 21982), (302, 22015), (309, 22051), (350, 22144), (367, 22204), (374, 22222), (396, 22303), (453, 22531), (462, 22576), (514, 22771), (515, 22777), (517, 22786), (525, 22831), (527, 22846), (562, 23002), (565, 23020), (568, 23029), (598, 23158), (599, 23161), (634, 23371), (636, 23383), (661, 23497), (696, 23713), (706, 23797), (710, 23821), (712, 23830),

Gene: Batiatus_18 Start: 17448, Stop: 19985, Start Num: 81

Candidate Starts for Batiatus_18:

(76, 17436), (Start: 81 @17448 has 221 MA's), (92, 17469), (Start: 104 @17490 has 1 MA's), (121, 17529), (154, 17598), (159, 17607), (160, 17610), (167, 17628), (178, 17661), (184, 17676), (202, 17724), (240, 17835), (241, 17838), (252, 17868), (255, 17880), (256, 17883), (273, 17961), (277, 17985), (287, 18051), (295, 18096), (302, 18126), (303, 18132), (305, 18150), (316, 18174), (319, 18183), (335, 18216), (338, 18222), (350, 18252), (363, 18291), (365, 18303), (367, 18312), (373, 18327), (374, 18330), (401, 18441), (402, 18444), (403, 18453), (404, 18459), (410, 18474), (411, 18477), (419, 18498), (428, 18528), (432, 18540), (440, 18573), (462, 18684), (463, 18687), (469, 18714), (471, 18720), (483, 18774), (484, 18777), (511, 18864), (514, 18879), (516, 18891), (517, 18894), (528, 18960), (534, 18984), (537, 19005), (539, 19014), (552, 19074), (553, 19077), (562, 19113), (565, 19131), (571, 19143), (574, 19152), (579, 19179), (595, 19248), (598, 19266), (602, 19275), (604, 19287), (610, 19323), (615, 19353), (620, 19374), (626, 19398), (630, 19434), (635, 19488), (647, 19548), (652, 19590), (671, 19668), (681, 19725), (685, 19749), (692, 19803), (696, 19851), (703, 19893), (705, 19917), (706, 19920),

Gene: Beakin_19 Start: 17255, Stop: 19786, Start Num: 81

Candidate Starts for Beakin_19:

(76, 17243), (Start: 81 @17255 has 221 MA's), (92, 17276), (Start: 104 @17297 has 1 MA's), (121, 17336), (154, 17405), (159, 17414), (160, 17417), (167, 17435), (178, 17468), (184, 17483), (202, 17525), (240, 17636), (241, 17639), (252, 17669), (256, 17684), (273, 17762), (277, 17786), (287, 17852), (295, 17897), (302, 17927), (303, 17933), (305, 17951), (316, 17975), (319, 17984), (335, 18017), (338, 18023), (350, 18053), (363, 18092), (365, 18104), (367, 18113), (373, 18128), (374, 18131), (401, 18242), (402, 18245), (403, 18254), (404, 18260), (410, 18275), (411, 18278), (419, 18299), (428, 18329), (432, 18341), (440, 18374), (453, 18440), (462, 18485), (463, 18488), (469, 18515), (471, 18521), (483, 18575), (484, 18578), (511, 18665), (514, 18680), (516, 18692), (517, 18695), (528, 18761), (534, 18785), (537, 18806), (539, 18815), (552, 18875), (553, 18878), (562, 18914), (565, 18932), (574, 18953), (579, 18980), (595, 19049), (598, 19067), (602, 19076), (604, 19088), (610, 19124), (620, 19175), (624, 19193), (630, 19235), (635, 19289), (652, 19391), (671, 19469), (681, 19526), (685, 19550), (692, 19604), (696, 19652), (705, 19718), (706, 19721),

Gene: Beckerton_29 Start: 26219, Stop: 29062, Start Num: 35

Candidate Starts for Beckerton_29:

(Start: 35 @26219 has 8 MA's), (56, 26351), (58, 26363), (60, 26372), (69, 26441), (71, 26447), (98, 26507), (107, 26528), (125, 26576), (139, 26618), (155, 26642), (168, 26675), (180, 26711), (185, 26723), (223, 26816), (241, 26873), (251, 26912), (279, 27038), (288, 27107), (293, 27137), (303, 27179), (319, 27230), (354, 27320), (363, 27338), (382, 27419), (396, 27458), (400, 27479), (440, 27617), (446, 27656), (461, 27719), (484, 27821), (537, 28046), (616, 28409), (622, 28436), (658, 28679), (669, 28712), (672, 28736), (691, 28856), (701, 28934), (712, 29021), (714, 29036), (715, 29042),

Gene: Becksu_26 Start: 22467, Stop: 24863, Start Num: 126

Candidate Starts for Becksu_26:

(Start: 126 @22467 has 125 MA's), (195, 22644), (206, 22665), (264, 22812), (288, 22953), (294, 22986), (302, 23019), (309, 23055), (350, 23148), (367, 23208), (374, 23226), (406, 23358), (422, 23403), (453, 23535), (462, 23580), (478, 23640), (510, 23754), (514, 23775), (522, 23814), (525, 23835), (527, 23850), (560, 24000), (562, 24006), (565, 24024), (580, 24078), (598, 24162), (618, 24255), (661, 24501), (696, 24717), (706, 24801), (712, 24834),

Gene: Beezoo_27 Start: 20888, Stop: 23320, Start Num: 134

Candidate Starts for Beezoo_27:

(Start: 134 @20888 has 92 MA's), (174, 20987), (263, 21248), (267, 21269), (305, 21476), (318, 21509), (323, 21539), (336, 21578), (347, 21611), (352, 21635), (365, 21680), (401, 21833), (412, 21878), (416, 21890), (420, 21899), (433, 21950), (467, 22130), (472, 22145), (487, 22214), (492, 22226), (508, 22289), (517, 22331), (525, 22370), (526, 22376), (527, 22385), (532, 22406), (544, 22466), (574, 22583), (601, 22697), (603, 22706), (608, 22727), (619, 22799), (623, 22820), (635, 22916), (679, 23144), (696, 23291),

Gene: Bella96_27 Start: 20822, Stop: 23254, Start Num: 134

Candidate Starts for Bella96_27:

(127, 20804), (Start: 134 @20822 has 92 MA's), (154, 20870), (174, 20921), (263, 21182), (267, 21203), (318, 21443), (323, 21473), (324, 21476), (352, 21569), (357, 21581), (365, 21614), (401, 21767), (416, 21824), (420, 21833), (433, 21884), (467, 22064), (472, 22079), (487, 22148), (492, 22160), (501, 22196), (508, 22223), (517, 22265), (525, 22304), (526, 22310), (527, 22319), (532, 22340), (544, 22400), (552, 22433), (554, 22448), (574, 22517), (581, 22559), (601, 22631), (603, 22640), (608, 22661), (619, 22733), (635, 22850), (665, 22997), (679, 23078), (689, 23153), (696, 23225),

Gene: Belladonna_27 Start: 20912, Stop: 23344, Start Num: 134

Candidate Starts for Belladonna_27:

(Start: 134 @20912 has 92 MA's), (174, 21011), (263, 21272), (267, 21293), (305, 21500), (318, 21533), (323, 21563), (347, 21635), (352, 21659), (401, 21857), (412, 21902), (416, 21914), (420, 21923), (433, 21974), (467, 22154), (472, 22169), (487, 22238), (492, 22250), (508, 22313), (517, 22355), (525, 22394), (526, 22400), (527, 22409), (532, 22430), (544, 22490), (574, 22607), (581, 22649), (601, 22721), (603, 22730), (608, 22751), (619, 22823), (623, 22844), (635, 22940), (665, 23087), (679, 23168), (696, 23315),

Gene: Bench_28 Start: 22144, Stop: 24540, Start Num: 126

Candidate Starts for Bench_28:

(Start: 126 @22144 has 125 MA's), (195, 22321), (206, 22342), (264, 22489), (294, 22663), (302, 22696), (309, 22732), (350, 22825), (367, 22885), (374, 22903), (406, 23035), (422, 23080), (453, 23212), (462, 23257), (478, 23317), (510, 23431), (514, 23452), (522, 23491), (525, 23512), (527, 23527), (560, 23677), (562, 23683), (565, 23701), (580, 23755), (598, 23839), (618, 23932), (661, 24178), (696, 24394), (706, 24478), (712, 24511),

Gene: Bern_29 Start: 20832, Stop: 23264, Start Num: 134

Candidate Starts for Bern_29:

(Start: 134 @20832 has 92 MA's), (156, 20883), (159, 20892), (174, 20931), (263, 21192), (267, 21213), (317, 21450), (318, 21453), (323, 21483), (324, 21486), (327, 21498), (347, 21555), (352, 21579), (353, 21585), (365, 21624), (401, 21777), (412, 21822), (416, 21834), (420, 21843), (430, 21879), (433, 21894), (467, 22074), (472, 22089), (487, 22158), (508, 22233), (517, 22275), (525, 22314), (526, 22320), (527, 22329), (532, 22350), (534, 22356), (544, 22410), (552, 22443), (554, 22458), (574, 22527), (575, 22533), (581, 22569), (603, 22650), (612, 22707), (619, 22743), (623, 22764), (635, 22860), (655, 22971), (679, 23088), (689, 23163), (696, 23235),

Gene: BigBubba_27 Start: 22047, Stop: 24443, Start Num: 126

Candidate Starts for BigBubba_27:

(Start: 126 @22047 has 125 MA's), (195, 22224), (206, 22245), (264, 22392), (288, 22533), (294, 22566), (302, 22599), (309, 22635), (350, 22728), (367, 22788), (374, 22806), (406, 22938), (422, 22983), (453, 23115), (462, 23160), (510, 23334), (514, 23355), (522, 23394), (525, 23415), (527, 23430), (562, 23586), (565, 23604), (580, 23658), (598, 23742), (618, 23835), (661, 24081), (696, 24297), (706, 24381), (712, 24414),

Gene: BigMama_28 Start: 24332, Stop: 26602, Start Num: 39

Candidate Starts for BigMama_28:

(Start: 39 @24332 has 22 MA's), (59, 24467), (61, 24476), (102, 24650), (105, 24656), (108, 24668), (167, 24821), (173, 24836), (177, 24851), (277, 25232), (279, 25238), (284, 25283), (301, 25370), (370, 25571), (372, 25577), (382, 25625), (394, 25655), (400, 25679), (449, 25868), (456, 25895), (465, 25943), (482, 26015), (497, 26054), (503, 26075), (506, 26090), (511, 26108), (517, 26138), (536, 26222), (590, 26423), (600, 26465), (627, 26591),

Gene: BilboSwaggins_26 Start: 22284, Stop: 24680, Start Num: 126

Candidate Starts for BilboSwaggins_26:

(Start: 126 @22284 has 125 MA's), (195, 22461), (206, 22482), (264, 22629), (288, 22770), (294, 22803), (302, 22836), (309, 22872), (350, 22965), (367, 23025), (374, 23043), (396, 23124), (453, 23352), (462, 23397), (514, 23592), (515, 23598), (517, 23607), (525, 23652), (527, 23667), (562, 23823), (565, 23841), (568, 23850), (598, 23979), (599, 23982), (634, 24192), (636, 24204), (661, 24318), (696, 24534), (706, 24618), (710, 24642), (712, 24651),

Gene: Bipolar_18 Start: 17398, Stop: 19890, Start Num: 81

Candidate Starts for Bipolar_18:

(78, 17386), (Start: 81 @17398 has 221 MA's), (92, 17419), (Start: 104 @17440 has 1 MA's), (122, 17479), (154, 17548), (159, 17557), (160, 17560), (167, 17578), (178, 17611), (189, 17644), (202, 17677), (229, 17731), (241, 17767), (243, 17776), (254, 17794), (260, 17818), (266, 17842), (285, 17950), (288, 17974), (292, 17989), (295, 17998), (302, 18022), (303, 18028), (305, 18046), (309, 18058), (312, 18064), (316, 18070), (318, 18076), (319, 18079), (322, 18088), (326, 18097), (335, 18112), (350, 18148), (363, 18187), (365, 18199), (367, 18208), (391, 18292), (411, 18373), (422, 18403), (423, 18406), (432, 18436), (439, 18463), (441, 18472), (450, 18523), (451, 18532), (453, 18535), (461, 18571), (465, 18592), (474, 18628), (515, 18781), (525, 18835), (534, 18880), (536, 18898), (537, 18901), (545, 18940), (578, 19087), (580, 19096), (596, 19165), (598, 19180), (630, 19345), (639, 19432), (649, 19480), (661, 19531), (677, 19609), (707, 19831), (709, 19834), (712, 19861),

Gene: BirdsNest_33 Start: 28321, Stop: 30801, Start Num: 93

Candidate Starts for BirdsNest_33:

(Start: 93 @28321 has 1 MA's), (135, 28435), (149, 28468), (290, 28945), (306, 29011), (311, 29023), (320, 29041), (342, 29107), (353, 29149), (380, 29242), (384, 29263), (443, 29476), (475, 29632), (481, 29665), (488, 29692), (504, 29746), (533, 29896), (537, 29920), (547, 29962), (605, 30193), (622, 30292), (680, 30634), (693, 30739), (697, 30784),

Gene: Blarby_25 Start: 17613, Stop: 20210, Start Num: 67

Candidate Starts for Blarby_25:

(64, 17604), (67, 17613), (Start: 84 @17673 has 1 MA's), (100, 17706), (103, 17709), (144, 17808), (202, 17949), (240, 18060), (241, 18063), (252, 18093), (255, 18105), (256, 18108), (277, 18210), (287, 18276), (295, 18321), (302, 18351), (303, 18357), (305, 18375), (316, 18399), (319, 18408), (335, 18441), (338, 18447), (350, 18477), (363, 18516), (365, 18528), (367, 18537), (373, 18552), (374, 18555), (401, 18666), (402, 18669), (403, 18678), (404, 18684), (410, 18699), (411, 18702), (419, 18723), (428, 18753), (432, 18765), (440, 18798), (462, 18909), (463, 18912), (469, 18939), (471, 18945), (483, 18999), (484, 19002), (511, 19089), (514, 19104), (516, 19116), (517, 19119), (528, 19185), (537, 19230), (539, 19239), (552, 19299), (553, 19302), (562, 19338), (565, 19356), (574, 19377), (579, 19404), (595, 19473), (598, 19491), (602, 19500), (604, 19512), (610, 19548), (615, 19578), (620, 19599), (624, 19617), (630, 19659), (635, 19713), (652, 19815), (681, 19950), (685, 19974), (692, 20028), (696, 20076), (703, 20118), (705, 20142), (706, 20145),

Gene: Blessica_59 Start: 36409, Stop: 38919, Start Num: 96

Candidate Starts for Blessica_59:

(Start: 96 @36409 has 28 MA's), (108, 36442), (136, 36511), (137, 36514), (147, 36538), (160, 36562), (170, 36586), (178, 36619), (245, 36826), (248, 36838), (249, 36841), (281, 36988), (282, 37018), (287, 37042), (295, 37072), (296, 37075), (302, 37102), (305, 37126), (318, 37156), (344, 37213), (351, 37237), (363, 37273), (365, 37285), (373, 37309), (374, 37312), (382, 37354), (410, 37450), (411, 37453), (475, 37708), (514, 37852), (525, 37912), (536, 37984), (537, 37987), (558, 38083), (598, 38257), (604, 38278), (622, 38371), (625, 38383), (635, 38473), (650, 38548), (670, 38593), (699, 38794), (704, 38848), (709, 38863),

Gene: Blexus_18 Start: 17586, Stop: 20123, Start Num: 81

Candidate Starts for Blexus_18:

(Start: 81 @17586 has 221 MA's), (92, 17607), (Start: 104 @17628 has 1 MA's), (121, 17667), (154, 17736), (159, 17745), (160, 17748), (167, 17766), (184, 17814), (202, 17862), (240, 17973), (241, 17976), (256, 18021), (273, 18099), (277, 18123), (287, 18189), (302, 18264), (303, 18270), (305, 18288), (316, 18312), (319, 18321), (335, 18354), (338, 18360), (350, 18390), (357, 18411), (365, 18441), (367, 18450), (397, 18558), (400, 18570), (401, 18579), (402, 18582), (404, 18597), (410, 18612), (411, 18615), (419, 18636), (432, 18678), (440, 18711), (462, 18822), (463, 18825), (469, 18852), (471, 18858), (483, 18912), (484, 18915), (495, 18942), (514, 19017), (516, 19029), (517, 19032), (528, 19098), (533, 19119), (534, 19122), (537, 19143), (539, 19152), (547, 19194), (552,

19212), (553, 19215), (560, 19245), (565, 19269), (571, 19281), (574, 19290), (595, 19386), (598, 19404), (602, 19413), (604, 19425), (610, 19461), (615, 19491), (618, 19500), (620, 19512), (630, 19572), (635, 19626), (647, 19686), (652, 19728), (681, 19863), (685, 19887), (692, 19941), (696, 19989), (703, 20031), (705, 20055), (706, 20058),

Gene: Blizzard_27 Start: 20912, Stop: 23344, Start Num: 134

Candidate Starts for Blizzard_27:

(Start: 134 @20912 has 92 MA's), (174, 21011), (263, 21272), (267, 21293), (305, 21500), (318, 21533), (323, 21563), (347, 21635), (352, 21659), (401, 21857), (412, 21902), (416, 21914), (420, 21923), (433, 21974), (467, 22154), (472, 22169), (487, 22238), (492, 22250), (508, 22313), (517, 22355), (525, 22394), (526, 22400), (527, 22409), (532, 22430), (544, 22490), (574, 22607), (581, 22649), (601, 22721), (603, 22730), (608, 22751), (619, 22823), (623, 22844), (635, 22940), (665, 23087), (679, 23168), (696, 23315),

Gene: BlueCrab_18 Start: 17568, Stop: 20105, Start Num: 81

Candidate Starts for BlueCrab_18:

(76, 17556), (Start: 81 @17568 has 221 MA's), (92, 17589), (Start: 104 @17610 has 1 MA's), (121, 17649), (154, 17718), (159, 17727), (160, 17730), (167, 17748), (184, 17796), (202, 17844), (240, 17955), (241, 17958), (256, 18003), (273, 18081), (277, 18105), (287, 18171), (295, 18216), (302, 18246), (303, 18252), (305, 18270), (316, 18294), (319, 18303), (335, 18336), (338, 18342), (350, 18372), (363, 18411), (365, 18423), (367, 18432), (373, 18447), (374, 18450), (401, 18561), (402, 18564), (403, 18573), (404, 18579), (410, 18594), (411, 18597), (419, 18618), (428, 18648), (432, 18660), (440, 18693), (462, 18804), (463, 18807), (469, 18834), (471, 18840), (483, 18894), (484, 18897), (514, 18999), (516, 19011), (517, 19014), (528, 19080), (534, 19104), (537, 19125), (539, 19134), (552, 19194), (553, 19197), (562, 19233), (565, 19251), (574, 19272), (579, 19299), (595, 19368), (598, 19386), (602, 19395), (604, 19407), (610, 19443), (620, 19494), (624, 19512), (630, 19554), (635, 19608), (652, 19710), (681, 19845), (685, 19869), (692, 19923), (700, 19992), (705, 20037), (706, 20040),

Gene: BobaPhett_18 Start: 17397, Stop: 19922, Start Num: 81

Candidate Starts for BobaPhett_18:

(Start: 81 @17397 has 221 MA's), (92, 17418), (102, 17439), (121, 17478), (154, 17547), (159, 17556), (160, 17559), (167, 17577), (184, 17625), (202, 17673), (240, 17784), (241, 17787), (253, 17820), (256, 17832), (273, 17910), (282, 17976), (288, 18009), (299, 18063), (302, 18075), (318, 18129), (319, 18132), (322, 18141), (341, 18174), (355, 18213), (357, 18216), (361, 18231), (363, 18234), (370, 18261), (372, 18267), (373, 18270), (374, 18273), (380, 18300), (383, 18318), (385, 18321), (403, 18396), (410, 18417), (411, 18420), (421, 18447), (428, 18471), (440, 18516), (441, 18519), (450, 18570), (463, 18633), (465, 18642), (470, 18666), (501, 18771), (502, 18774), (514, 18825), (515, 18831), (516, 18837), (517, 18840), (525, 18885), (527, 18900), (533, 18927), (537, 18951), (547, 19002), (552, 19020), (553, 19023), (554, 19035), (571, 19089), (598, 19212), (611, 19275), (624, 19338), (632, 19413), (673, 19614), (702, 19824), (708, 19863), (709, 19866),

Gene: Bobi_20 Start: 17987, Stop: 20524, Start Num: 81

Candidate Starts for Bobi_20:

(76, 17975), (Start: 81 @17987 has 221 MA's), (92, 18008), (Start: 104 @18029 has 1 MA's), (121, 18068), (154, 18137), (159, 18146), (160, 18149), (167, 18167), (178, 18200), (184, 18215), (202, 18263), (240, 18374), (241, 18377), (252, 18407), (255, 18419), (256, 18422), (273, 18500), (277, 18524), (287, 18590), (295, 18635), (302, 18665), (303, 18671), (305, 18689), (316, 18713), (319, 18722), (335, 18755), (338, 18761), (350, 18791), (363, 18830), (365, 18842), (367, 18851), (373, 18866), (374, 18869), (401, 18980), (402, 18983), (403, 18992), (404, 18998), (410, 19013), (411, 19016), (428, 19067), (432, 19079), (440, 19112), (453, 19178), (462, 19223), (463, 19226), (469, 19253), (471, 19259), (483, 19313), (484, 19316), (511, 19403), (514, 19418), (516, 19430), (517, 19433), (528, 19499), (537, 19544), (539, 19553), (552, 19613), (553, 19616), (562, 19652), (565,

19670), (571, 19682), (574, 19691), (579, 19718), (595, 19787), (598, 19805), (602, 19814), (604, 19826), (610, 19862), (615, 19892), (620, 19913), (626, 19937), (630, 19973), (635, 20027), (647, 20087), (652, 20129), (681, 20264), (685, 20288), (692, 20342), (696, 20390), (703, 20432), (705, 20456), (706, 20459),

Gene: BodEinwohner17_18 Start: 17569, Stop: 20106, Start Num: 81

Candidate Starts for BodEinwohner17_18:

(Start: 81 @17569 has 221 MA's), (92, 17590), (Start: 104 @17611 has 1 MA's), (121, 17650), (154, 17719), (159, 17728), (160, 17731), (167, 17749), (184, 17797), (238, 17950), (241, 17959), (256, 18004), (276, 18103), (277, 18106), (287, 18172), (302, 18247), (303, 18253), (305, 18271), (316, 18295), (319, 18304), (335, 18337), (338, 18343), (350, 18373), (357, 18394), (365, 18424), (367, 18433), (373, 18448), (374, 18451), (397, 18541), (400, 18553), (401, 18562), (402, 18565), (404, 18580), (410, 18595), (411, 18598), (419, 18619), (432, 18661), (440, 18694), (462, 18805), (463, 18808), (469, 18835), (471, 18841), (483, 18895), (484, 18898), (495, 18925), (514, 19000), (516, 19012), (517, 19015), (528, 19081), (533, 19102), (534, 19105), (537, 19126), (539, 19135), (547, 19177), (552, 19195), (553, 19198), (560, 19228), (565, 19252), (571, 19264), (574, 19273), (595, 19369), (598, 19387), (602, 19396), (604, 19408), (610, 19444), (615, 19474), (618, 19483), (620, 19495), (630, 19555), (635, 19609), (647, 19669), (652, 19711), (681, 19846), (685, 19870), (692, 19924), (696, 19972), (703, 20014), (705, 20038), (706, 20041),

Gene: Bogie_20 Start: 18761, Stop: 21265, Start Num: 88

Candidate Starts for Bogie_20:

(Start: 88 @18761 has 3 MA's), (160, 18914), (276, 19319), (281, 19334), (282, 19364), (284, 19370), (287, 19388), (316, 19496), (338, 19547), (374, 19658), (375, 19661), (382, 19700), (396, 19733), (411, 19799), (432, 19859), (439, 19886), (440, 19892), (514, 20198), (525, 20258), (532, 20306), (533, 20309), (536, 20330), (537, 20333), (598, 20594), (624, 20717), (625, 20720), (635, 20810), (647, 20867), (650, 20888), (673, 20948), (701, 21149), (704, 21191),

Gene: Boiiii_27 Start: 20914, Stop: 23346, Start Num: 134

Candidate Starts for Boiiii_27:

(Start: 134 @20914 has 92 MA's), (174, 21013), (263, 21274), (267, 21295), (305, 21502), (318, 21535), (323, 21565), (347, 21637), (352, 21661), (401, 21859), (412, 21904), (416, 21916), (420, 21925), (433, 21976), (467, 22156), (472, 22171), (487, 22240), (492, 22252), (508, 22315), (517, 22357), (525, 22396), (526, 22402), (527, 22411), (532, 22432), (544, 22492), (574, 22609), (581, 22651), (601, 22723), (603, 22732), (608, 22753), (619, 22825), (623, 22846), (635, 22942), (665, 23089), (679, 23170), (696, 23317),

Gene: Boomer_19 Start: 17212, Stop: 19749, Start Num: 81

Candidate Starts for Boomer_19:

(Start: 81 @17212 has 221 MA's), (92, 17233), (Start: 104 @17254 has 1 MA's), (121, 17293), (154, 17362), (159, 17371), (160, 17374), (167, 17392), (178, 17425), (184, 17440), (202, 17488), (240, 17599), (241, 17602), (252, 17632), (256, 17647), (273, 17725), (277, 17749), (287, 17815), (295, 17860), (302, 17890), (303, 17896), (305, 17914), (316, 17938), (319, 17947), (335, 17980), (338, 17986), (350, 18016), (357, 18037), (363, 18055), (365, 18067), (367, 18076), (373, 18091), (374, 18094), (394, 18172), (401, 18205), (402, 18208), (403, 18217), (404, 18223), (410, 18238), (411, 18241), (419, 18262), (428, 18292), (432, 18304), (440, 18337), (462, 18448), (463, 18451), (469, 18478), (471, 18484), (483, 18538), (484, 18541), (511, 18628), (514, 18643), (516, 18655), (517, 18658), (528, 18724), (534, 18748), (537, 18769), (539, 18778), (552, 18838), (553, 18841), (560, 18871), (565, 18895), (571, 18907), (574, 18916), (579, 18943), (595, 19012), (598, 19030), (602, 19039), (604, 19051), (610, 19087), (615, 19117), (620, 19138), (626, 19162), (630, 19198), (635, 19252), (647, 19312), (652, 19354), (671, 19432), (681, 19489), (685, 19513), (692, 19567), (696, 19615), (705, 19681), (706, 19684),

Gene: Bora_56 Start: 35766, Stop: 38276, Start Num: 96

Candidate Starts for Bora_56:

(Start: 96 @35766 has 28 MA's), (108, 35799), (136, 35868), (137, 35871), (147, 35895), (160, 35919), (170, 35943), (178, 35976), (232, 36129), (245, 36183), (248, 36195), (249, 36198), (281, 36345), (282, 36375), (287, 36399), (295, 36429), (296, 36432), (302, 36459), (305, 36483), (318, 36513), (344, 36570), (363, 36630), (365, 36642), (373, 36666), (374, 36669), (382, 36711), (410, 36807), (411, 36810), (475, 37065), (514, 37209), (525, 37269), (536, 37341), (537, 37344), (558, 37440), (598, 37614), (602, 37623), (604, 37635), (622, 37728), (625, 37740), (635, 37830), (650, 37905), (670, 37950), (699, 38151), (704, 38205), (709, 38220),

Gene: Brookers_19 Start: 17254, Stop: 19731, Start Num: 81

Candidate Starts for Brookers_19:

(78, 17242), (Start: 81 @17254 has 221 MA's), (92, 17275), (Start: 104 @17296 has 1 MA's), (122, 17335), (154, 17404), (159, 17413), (160, 17416), (167, 17434), (178, 17467), (184, 17482), (224, 17569), (229, 17584), (241, 17620), (242, 17626), (256, 17659), (260, 17671), (292, 17842), (295, 17851), (302, 17875), (318, 17929), (335, 17965), (338, 17971), (350, 18001), (359, 18031), (365, 18052), (367, 18061), (391, 18145), (404, 18208), (411, 18226), (415, 18235), (422, 18256), (423, 18259), (428, 18277), (432, 18289), (439, 18316), (441, 18325), (450, 18376), (451, 18385), (453, 18388), (460, 18415), (461, 18424), (465, 18445), (483, 18523), (484, 18526), (515, 18634), (516, 18640), (525, 18688), (533, 18730), (534, 18733), (537, 18754), (538, 18760), (539, 18763), (545, 18793), (578, 18934), (581, 18952), (587, 18985), (595, 19009), (596, 19012), (598, 19027), (604, 19048), (610, 19084), (611, 19090), (616, 19117), (622, 19144), (639, 19279), (649, 19327), (651, 19351), (653, 19357), (661, 19375), (681, 19474), (684, 19495), (687, 19513), (696, 19591), (700, 19612), (709, 19675), (710, 19693), (713, 19711),

Gene: Bruin_26 Start: 22307, Stop: 24703, Start Num: 126

Candidate Starts for Bruin_26:

(Start: 126 @22307 has 125 MA's), (195, 22484), (206, 22505), (264, 22652), (288, 22793), (294, 22826), (302, 22859), (309, 22895), (350, 22988), (367, 23048), (374, 23066), (406, 23198), (422, 23243), (453, 23375), (462, 23420), (510, 23594), (514, 23615), (522, 23654), (525, 23675), (527, 23690), (562, 23846), (565, 23864), (580, 23918), (598, 24002), (618, 24095), (661, 24341), (696, 24557), (706, 24641), (712, 24674),

Gene: Brujita_21 Start: 19089, Stop: 21620, Start Num: 82

Candidate Starts for Brujita_21:

(Start: 82 @19089 has 2 MA's), (Start: 94 @19113 has 4 MA's), (140, 19224), (145, 19233), (160, 19260), (208, 19407), (276, 19674), (281, 19689), (282, 19719), (284, 19725), (287, 19743), (316, 19851), (338, 19902), (374, 20013), (375, 20016), (382, 20055), (396, 20088), (411, 20154), (432, 20214), (439, 20241), (440, 20247), (514, 20553), (525, 20613), (532, 20661), (533, 20664), (536, 20685), (537, 20688), (598, 20949), (624, 21072), (625, 21075), (635, 21165), (647, 21222), (650, 21243), (673, 21303), (701, 21504), (704, 21546),

Gene: Brushbloom_20 Start: 17281, Stop: 19818, Start Num: 81

Candidate Starts for Brushbloom_20:

(Start: 81 @17281 has 221 MA's), (92, 17302), (Start: 104 @17323 has 1 MA's), (119, 17359), (121, 17362), (154, 17431), (159, 17440), (160, 17443), (167, 17461), (178, 17494), (184, 17509), (202, 17557), (238, 17662), (240, 17668), (241, 17671), (255, 17713), (256, 17716), (277, 17818), (287, 17884), (295, 17929), (302, 17959), (303, 17965), (305, 17983), (316, 18007), (319, 18016), (335, 18049), (338, 18055), (357, 18106), (363, 18124), (365, 18136), (367, 18145), (373, 18160), (375, 18166), (401, 18274), (403, 18286), (404, 18292), (410, 18307), (411, 18310), (419, 18331), (428, 18361), (432, 18373), (440, 18406), (453, 18472), (462, 18517), (463, 18520), (469, 18547), (471, 18553), (483, 18607), (484, 18610), (495, 18637), (514, 18712), (516, 18724), (517, 18727), (528, 18793), (534, 18817), (539, 18847), (547, 18889), (552, 18907), (553, 18910), (562, 18946), (565,

18964), (574, 18985), (579, 19012), (595, 19081), (598, 19099), (602, 19108), (604, 19120), (610, 19156), (620, 19207), (624, 19225), (630, 19267), (635, 19321), (652, 19423), (671, 19501), (681, 19558), (685, 19582), (692, 19636), (696, 19684), (703, 19726), (705, 19750), (706, 19753),

Gene: Bubbles123_19 Start: 18112, Stop: 20649, Start Num: 81

Candidate Starts for Bubbles123_19:

(Start: 81 @18112 has 221 MA's), (92, 18133), (Start: 104 @18154 has 1 MA's), (121, 18193), (154, 18262), (159, 18271), (160, 18274), (167, 18292), (178, 18325), (184, 18340), (202, 18388), (240, 18499), (241, 18502), (255, 18544), (256, 18547), (277, 18649), (287, 18715), (295, 18760), (302, 18790), (303, 18796), (305, 18814), (316, 18838), (319, 18847), (335, 18880), (338, 18886), (363, 18955), (365, 18967), (367, 18976), (373, 18991), (375, 18997), (401, 19105), (403, 19117), (404, 19123), (410, 19138), (411, 19141), (419, 19162), (428, 19192), (432, 19204), (440, 19237), (453, 19303), (462, 19348), (463, 19351), (469, 19378), (471, 19384), (483, 19438), (484, 19441), (495, 19468), (514, 19543), (516, 19555), (517, 19558), (528, 19624), (534, 19648), (539, 19678), (547, 19720), (552, 19738), (553, 19741), (562, 19777), (565, 19795), (574, 19816), (579, 19843), (595, 19912), (598, 19930), (602, 19939), (604, 19951), (610, 19987), (620, 20038), (626, 20062), (630, 20098), (635, 20152), (652, 20254), (671, 20332), (681, 20389), (685, 20413), (696, 20515), (703, 20557), (705, 20581), (706, 20584),

Gene: Buck_25 Start: 22240, Stop: 24636, Start Num: 126

Candidate Starts for Buck_25:

(Start: 126 @22240 has 125 MA's), (195, 22417), (206, 22438), (264, 22585), (288, 22726), (294, 22759), (302, 22792), (309, 22828), (350, 22921), (367, 22981), (374, 22999), (406, 23131), (422, 23176), (453, 23308), (462, 23353), (478, 23413), (510, 23527), (514, 23548), (522, 23587), (525, 23608), (527, 23623), (560, 23773), (562, 23779), (565, 23797), (580, 23851), (598, 23935), (618, 24028), (661, 24274), (696, 24490), (706, 24574), (712, 24607),

Gene: BugsBunny_24 Start: 21873, Stop: 24269, Start Num: 126

Candidate Starts for BugsBunny_24:

(Start: 126 @21873 has 125 MA's), (195, 22050), (206, 22071), (264, 22218), (288, 22359), (294, 22392), (302, 22425), (309, 22461), (350, 22554), (367, 22614), (374, 22632), (406, 22764), (422, 22809), (453, 22941), (462, 22986), (478, 23046), (510, 23160), (514, 23181), (522, 23220), (525, 23241), (527, 23256), (560, 23406), (562, 23412), (565, 23430), (580, 23484), (598, 23568), (618, 23661), (661, 23907), (696, 24123), (706, 24207), (712, 24240),

Gene: Burwell21_18 Start: 17404, Stop: 19956, Start Num: 81

Candidate Starts for Burwell21_18:

(Start: 81 @17404 has 221 MA's), (121, 17485), (154, 17554), (159, 17563), (160, 17566), (167, 17584), (184, 17632), (201, 17677), (240, 17791), (241, 17794), (244, 17806), (253, 17827), (255, 17836), (256, 17839), (267, 17887), (273, 17917), (282, 17983), (288, 18016), (295, 18052), (301, 18076), (318, 18136), (319, 18139), (326, 18157), (355, 18220), (357, 18223), (363, 18241), (367, 18262), (374, 18280), (380, 18307), (385, 18328), (396, 18361), (403, 18403), (404, 18409), (406, 18412), (411, 18427), (421, 18454), (422, 18457), (428, 18478), (432, 18490), (440, 18523), (460, 18616), (483, 18724), (489, 18748), (495, 18754), (500, 18772), (501, 18775), (507, 18799), (514, 18829), (519, 18853), (525, 18889), (526, 18895), (527, 18904), (533, 18931), (543, 18994), (547, 19018), (548, 19033), (560, 19075), (575, 19126), (596, 19222), (598, 19237), (602, 19246), (607, 19270), (618, 19333), (626, 19369), (678, 19675), (685, 19720), (696, 19822),

Gene: Butterscotch_30 Start: 24316, Stop: 26586, Start Num: 39

Candidate Starts for Butterscotch_30:

(Start: 39 @24316 has 22 MA's), (59, 24451), (61, 24460), (102, 24634), (105, 24640), (108, 24652), (167, 24805), (173, 24820), (177, 24835), (277, 25216), (279, 25222), (284, 25267), (301, 25354), (370, 25555), (372, 25561), (382, 25609), (394, 25639), (400, 25663), (449, 25852), (456, 25879),

(465, 25927), (482, 25999), (497, 26038), (503, 26059), (506, 26074), (511, 26092), (517, 26122), (536, 26206), (590, 26407), (600, 26449), (627, 26575),

Gene: BuzzLyseyear_20 Start: 17791, Stop: 20328, Start Num: 81

Candidate Starts for BuzzLyseyear_20:

(Start: 81 @17791 has 221 MA's), (92, 17812), (Start: 104 @17833 has 1 MA's), (121, 17872), (154, 17941), (159, 17950), (160, 17953), (167, 17971), (184, 18019), (238, 18172), (241, 18181), (256, 18226), (276, 18325), (277, 18328), (287, 18394), (302, 18469), (303, 18475), (305, 18493), (316, 18517), (318, 18523), (319, 18526), (335, 18559), (338, 18565), (350, 18595), (357, 18616), (365, 18646), (367, 18655), (373, 18670), (374, 18673), (401, 18784), (402, 18787), (403, 18796), (404, 18802), (410, 18817), (411, 18820), (419, 18841), (428, 18871), (432, 18883), (440, 18916), (462, 19027), (463, 19030), (469, 19057), (471, 19063), (483, 19117), (484, 19120), (511, 19207), (514, 19222), (516, 19234), (517, 19237), (528, 19303), (534, 19327), (537, 19348), (539, 19357), (552, 19417), (553, 19420), (562, 19456), (565, 19474), (571, 19486), (574, 19495), (579, 19522), (594, 19579), (595, 19591), (598, 19609), (602, 19618), (604, 19630), (610, 19666), (615, 19696), (618, 19705), (620, 19717), (630, 19777), (635, 19831), (647, 19891), (652, 19933), (681, 20068), (685, 20092), (692, 20146), (696, 20194), (703, 20236), (705, 20260), (706, 20263),

Gene: ByChance_18 Start: 17408, Stop: 19933, Start Num: 81

Candidate Starts for ByChance_18:

(Start: 81 @17408 has 221 MA's), (121, 17489), (154, 17558), (159, 17567), (160, 17570), (167, 17588), (184, 17636), (202, 17684), (240, 17795), (241, 17798), (253, 17831), (256, 17843), (273, 17921), (282, 17987), (288, 18020), (299, 18074), (302, 18086), (318, 18140), (319, 18143), (322, 18152), (341, 18185), (355, 18224), (357, 18227), (361, 18242), (363, 18245), (370, 18272), (372, 18278), (373, 18281), (374, 18284), (380, 18311), (383, 18329), (385, 18332), (403, 18407), (410, 18428), (411, 18431), (421, 18458), (428, 18482), (440, 18527), (441, 18530), (450, 18581), (463, 18644), (465, 18653), (470, 18677), (501, 18782), (502, 18785), (514, 18836), (515, 18842), (516, 18848), (517, 18851), (525, 18896), (527, 18911), (533, 18938), (537, 18962), (547, 19013), (552, 19031), (553, 19034), (554, 19046), (571, 19100), (580, 19142), (611, 19286), (622, 19340), (623, 19346), (624, 19349), (628, 19385), (629, 19388), (631, 19397), (632, 19424), (673, 19625), (696, 19796), (702, 19835), (708, 19874), (709, 19877),

Gene: Byougenkin_18 Start: 17418, Stop: 19949, Start Num: 81

Candidate Starts for Byougenkin_18:

(Start: 81 @17418 has 221 MA's), (128, 17508), (154, 17568), (159, 17577), (160, 17580), (167, 17598), (178, 17631), (184, 17646), (202, 17694), (240, 17805), (241, 17808), (252, 17838), (256, 17853), (273, 17931), (277, 17955), (287, 18021), (295, 18066), (302, 18096), (303, 18102), (305, 18120), (316, 18144), (318, 18150), (319, 18153), (335, 18186), (338, 18192), (363, 18261), (367, 18282), (373, 18297), (374, 18300), (401, 18411), (403, 18423), (404, 18429), (410, 18444), (411, 18447), (419, 18468), (432, 18510), (440, 18543), (462, 18654), (463, 18657), (469, 18684), (471, 18690), (483, 18744), (484, 18747), (511, 18834), (514, 18849), (516, 18861), (517, 18864), (528, 18930), (534, 18954), (537, 18975), (539, 18984), (552, 19044), (553, 19047), (562, 19083), (565, 19101), (571, 19113), (574, 19122), (579, 19149), (595, 19218), (598, 19236), (602, 19245), (604, 19257), (610, 19293), (615, 19323), (620, 19344), (626, 19368), (630, 19404), (635, 19458), (647, 19518), (652, 19560), (671, 19638), (681, 19695), (685, 19719), (692, 19773), (696, 19821), (703, 19857), (705, 19881), (706, 19884),

Gene: CREW_27 Start: 20912, Stop: 23344, Start Num: 134

Candidate Starts for CREW_27:

(Start: 134 @20912 has 92 MA's), (174, 21011), (263, 21272), (267, 21293), (305, 21500), (318, 21533), (323, 21563), (347, 21635), (352, 21659), (401, 21857), (412, 21902), (416, 21914), (420, 21923), (433, 21974), (467, 22154), (472, 22169), (487, 22238), (492, 22250), (508, 22313), (517, 22355), (525, 22394), (526, 22400), (527, 22409), (532, 22430), (544, 22490), (574, 22607), (581,

22649), (601, 22721), (603, 22730), (608, 22751), (619, 22823), (623, 22844), (635, 22940), (665, 23087), (679, 23168), (696, 23315),

Gene: Cabrinians_18 Start: 17398, Stop: 19950, Start Num: 81

Candidate Starts for Cabrinians_18:

(Start: 81 @17398 has 221 MA's), (121, 17479), (154, 17548), (159, 17557), (160, 17560), (167, 17578), (184, 17626), (201, 17671), (240, 17785), (241, 17788), (244, 17800), (253, 17821), (255, 17830), (256, 17833), (267, 17881), (273, 17911), (282, 17977), (288, 18010), (295, 18046), (301, 18070), (318, 18130), (319, 18133), (326, 18151), (355, 18214), (357, 18217), (363, 18235), (367, 18256), (374, 18274), (380, 18301), (385, 18322), (396, 18355), (403, 18397), (404, 18403), (406, 18406), (411, 18421), (421, 18448), (422, 18451), (428, 18472), (432, 18484), (440, 18517), (460, 18610), (483, 18718), (489, 18742), (495, 18748), (500, 18766), (501, 18769), (507, 18793), (514, 18823), (519, 18847), (525, 18883), (526, 18889), (527, 18898), (533, 18925), (543, 18988), (547, 19012), (548, 19027), (560, 19069), (575, 19120), (596, 19216), (598, 19231), (602, 19240), (607, 19264), (618, 19327), (626, 19363), (678, 19669), (685, 19714), (696, 19816),

Gene: Cactus_27 Start: 21496, Stop: 23892, Start Num: 126

Candidate Starts for Cactus_27:

(Start: 126 @21496 has 125 MA's), (195, 21673), (206, 21694), (264, 21841), (288, 21982), (294, 22015), (302, 22048), (309, 22084), (350, 22177), (367, 22237), (374, 22255), (396, 22336), (453, 22564), (462, 22609), (514, 22804), (515, 22810), (517, 22819), (525, 22864), (527, 22879), (562, 23035), (565, 23053), (568, 23062), (598, 23191), (599, 23194), (634, 23404), (636, 23416), (661, 23530), (696, 23746), (706, 23830), (710, 23854), (712, 23863),

Gene: CallaLilly_28 Start: 20835, Stop: 23267, Start Num: 134

Candidate Starts for CallaLilly_28:

(Start: 134 @20835 has 92 MA's), (174, 20934), (263, 21195), (267, 21216), (305, 21423), (318, 21456), (323, 21486), (347, 21558), (352, 21582), (401, 21780), (412, 21825), (416, 21837), (420, 21846), (433, 21897), (467, 22077), (472, 22092), (487, 22161), (492, 22173), (508, 22236), (517, 22278), (525, 22317), (526, 22323), (527, 22332), (532, 22353), (544, 22413), (574, 22530), (581, 22572), (601, 22644), (603, 22653), (608, 22674), (619, 22746), (623, 22767), (635, 22863), (665, 23010), (679, 23091), (696, 23238),

Gene: Cambiare_23 Start: 21228, Stop: 23705, Start Num: 90

Candidate Starts for Cambiare_23:

(Start: 90 @21228 has 8 MA's), (131, 21336), (169, 21426), (185, 21474), (198, 21516), (264, 21693), (285, 21810), (305, 21909), (342, 21990), (353, 22032), (361, 22056), (368, 22083), (369, 22086), (373, 22098), (395, 22179), (405, 22230), (443, 22359), (445, 22371), (469, 22497), (483, 22557), (486, 22572), (488, 22578), (506, 22647), (534, 22785), (547, 22848), (554, 22887), (586, 23022), (588, 23031), (602, 23079), (605, 23094), (624, 23205), (673, 23499), (681, 23550), (693, 23643),

Gene: Candle_30 Start: 24637, Stop: 28131, Start Num: 2

Candidate Starts for Candle_30:

(Start: 2 @24637 has 8 MA's), (4, 24649), (Start: 5 @24661 has 1 MA's), (8, 24844), (11, 24925), (17, 25024), (19, 25048), (20, 25066), (37, 25225), (41, 25258), (48, 25306), (54, 25345), (75, 25471), (77, 25480), (145, 25666), (222, 25867), (266, 26044), (282, 26143), (288, 26176), (297, 26221), (300, 26233), (308, 26275), (311, 26281), (313, 26284), (343, 26353), (366, 26431), (367, 26437), (379, 26482), (380, 26485), (401, 26569), (465, 26824), (475, 26863), (512, 27010), (513, 27016), (545, 27190), (553, 27223), (557, 27244), (560, 27253), (566, 27280), (620, 27523), (638, 27667), (680, 27865), (684, 27895), (692, 27952), (695, 27988), (700, 28015), (701, 28027),

Gene: Capricorn_27 Start: 20912, Stop: 23344, Start Num: 134

Candidate Starts for Capricorn_27:

(Start: 134 @20912 has 92 MA's), (174, 21011), (263, 21272), (267, 21293), (305, 21500), (318, 21533), (323, 21563), (347, 21635), (352, 21659), (401, 21857), (412, 21902), (416, 21914), (420, 21923), (433, 21974), (467, 22154), (472, 22169), (487, 22238), (492, 22250), (508, 22313), (517, 22355), (525, 22394), (526, 22400), (527, 22409), (532, 22430), (544, 22490), (574, 22607), (581, 22649), (601, 22721), (603, 22730), (608, 22751), (619, 22823), (623, 22844), (635, 22940), (665, 23087), (679, 23168), (696, 23315),

Gene: CaptainTrips_19 Start: 18092, Stop: 20629, Start Num: 81

Candidate Starts for CaptainTrips_19:

(Start: 81 @18092 has 221 MA's), (128, 18182), (154, 18242), (159, 18251), (160, 18254), (167, 18272), (178, 18305), (184, 18320), (202, 18368), (240, 18479), (241, 18482), (252, 18512), (255, 18524), (256, 18527), (273, 18605), (277, 18629), (287, 18695), (295, 18740), (302, 18770), (303, 18776), (305, 18794), (316, 18818), (319, 18827), (335, 18860), (338, 18866), (350, 18896), (363, 18935), (365, 18947), (367, 18956), (373, 18971), (374, 18974), (401, 19085), (402, 19088), (403, 19097), (404, 19103), (410, 19118), (411, 19121), (419, 19142), (428, 19172), (432, 19184), (440, 19217), (462, 19328), (463, 19331), (469, 19358), (471, 19364), (483, 19418), (484, 19421), (511, 19508), (514, 19523), (516, 19535), (517, 19538), (528, 19604), (534, 19628), (537, 19649), (539, 19658), (552, 19718), (553, 19721), (562, 19757), (565, 19775), (571, 19787), (574, 19796), (579, 19823), (595, 19892), (598, 19910), (602, 19919), (604, 19931), (610, 19967), (615, 19997), (620, 20018), (626, 20042), (630, 20078), (635, 20132), (647, 20192), (652, 20234), (671, 20312), (681, 20369), (685, 20393), (692, 20447), (696, 20495), (703, 20537), (705, 20561), (706, 20564),

Gene: CaseJules_27 Start: 20912, Stop: 23344, Start Num: 134

Candidate Starts for CaseJules_27:

(Start: 134 @20912 has 92 MA's), (174, 21011), (263, 21272), (267, 21293), (305, 21500), (318, 21533), (323, 21563), (347, 21635), (352, 21659), (401, 21857), (412, 21902), (416, 21914), (420, 21923), (433, 21974), (467, 22154), (472, 22169), (487, 22238), (492, 22250), (508, 22313), (517, 22355), (525, 22394), (526, 22400), (527, 22409), (532, 22430), (544, 22490), (574, 22607), (581, 22649), (601, 22721), (603, 22730), (608, 22751), (619, 22823), (623, 22844), (635, 22940), (665, 23087), (679, 23168), (696, 23315),

Gene: Catdawg_58 Start: 36145, Stop: 38655, Start Num: 96

Candidate Starts for Catdawg_58:

(Start: 96 @36145 has 28 MA's), (108, 36178), (136, 36247), (137, 36250), (147, 36274), (160, 36298), (170, 36322), (178, 36355), (245, 36562), (248, 36574), (249, 36577), (281, 36724), (282, 36754), (287, 36778), (295, 36808), (296, 36811), (302, 36838), (305, 36862), (318, 36892), (344, 36949), (351, 36973), (363, 37009), (365, 37021), (373, 37045), (374, 37048), (382, 37090), (410, 37186), (411, 37189), (475, 37444), (514, 37588), (525, 37648), (536, 37720), (537, 37723), (558, 37819), (598, 37993), (604, 38014), (622, 38107), (625, 38119), (635, 38209), (650, 38284), (670, 38329), (699, 38530), (704, 38584), (709, 38599),

Gene: Cborch11_30 Start: 25681, Stop: 28524, Start Num: 35

Candidate Starts for Cborch11_30:

(Start: 35 @25681 has 8 MA's), (56, 25813), (58, 25825), (60, 25834), (69, 25903), (71, 25909), (98, 25969), (107, 25990), (125, 26038), (139, 26080), (155, 26104), (168, 26137), (180, 26173), (185, 26185), (223, 26278), (241, 26335), (251, 26374), (279, 26500), (288, 26569), (293, 26599), (303, 26641), (319, 26692), (354, 26782), (363, 26800), (382, 26881), (396, 26920), (400, 26941), (440, 27079), (446, 27118), (461, 27181), (484, 27283), (537, 27508), (616, 27871), (622, 27898), (658, 28141), (669, 28174), (672, 28198), (691, 28318), (701, 28396), (712, 28483), (714, 28498), (715, 28504),

Gene: Che8_18 Start: 17426, Stop: 19963, Start Num: 81

Candidate Starts for Che8_18:

(Start: 81 @17426 has 221 MA's), (92, 17447), (Start: 104 @17468 has 1 MA's), (121, 17507), (154, 17576), (159, 17585), (160, 17588), (167, 17606), (178, 17639), (184, 17654), (240, 17813), (241, 17816), (252, 17846), (256, 17861), (273, 17939), (277, 17963), (287, 18029), (302, 18104), (303, 18110), (305, 18128), (316, 18152), (318, 18158), (319, 18161), (335, 18194), (338, 18200), (350, 18230), (357, 18251), (365, 18281), (367, 18290), (397, 18398), (400, 18410), (401, 18419), (402, 18422), (403, 18431), (404, 18437), (410, 18452), (411, 18455), (419, 18476), (428, 18506), (432, 18518), (440, 18551), (469, 18692), (471, 18698), (483, 18752), (484, 18755), (495, 18782), (514, 18857), (516, 18869), (517, 18872), (521, 18893), (528, 18938), (534, 18962), (539, 18992), (547, 19034), (552, 19052), (553, 19055), (562, 19091), (565, 19109), (571, 19121), (574, 19130), (579, 19157), (594, 19214), (595, 19226), (598, 19244), (602, 19253), (604, 19265), (610, 19301), (615, 19331), (618, 19340), (620, 19352), (630, 19412), (635, 19466), (652, 19568), (671, 19646), (681, 19703), (685, 19727), (692, 19781), (696, 19829), (700, 19850), (705, 19895), (706, 19898),

Gene: Che9d_24 Start: 17101, Stop: 19650, Start Num: 65

Candidate Starts for Che9d_24:

(63, 17092), (Start: 65 @17101 has 7 MA's), (Start: 81 @17161 has 221 MA's), (101, 17197), (145, 17296), (202, 17437), (224, 17476), (229, 17491), (241, 17527), (242, 17533), (243, 17536), (254, 17554), (260, 17578), (266, 17602), (267, 17605), (292, 17749), (295, 17758), (302, 17782), (305, 17806), (316, 17830), (318, 17836), (326, 17857), (328, 17860), (338, 17878), (350, 17908), (359, 17938), (365, 17959), (391, 18052), (396, 18067), (397, 18076), (401, 18097), (402, 18100), (415, 18142), (428, 18184), (429, 18187), (432, 18196), (439, 18223), (441, 18232), (447, 18271), (451, 18292), (453, 18295), (461, 18331), (465, 18352), (483, 18430), (484, 18433), (504, 18487), (516, 18547), (532, 18634), (534, 18640), (537, 18661), (545, 18697), (557, 18751), (560, 18760), (578, 18838), (581, 18856), (589, 18892), (591, 18895), (595, 18913), (598, 18931), (610, 18988), (612, 19000), (626, 19063), (630, 19096), (639, 19183), (649, 19231), (651, 19255), (657, 19282), (661, 19291), (670, 19330), (677, 19369), (681, 19393), (684, 19414), (696, 19510), (700, 19531), (707, 19591), (709, 19594), (712, 19621),

Gene: Cheesepuff_21 Start: 18248, Stop: 20785, Start Num: 81

Candidate Starts for Cheesepuff_21:

(Start: 81 @18248 has 221 MA's), (92, 18269), (Start: 104 @18290 has 1 MA's), (121, 18329), (154, 18398), (159, 18407), (160, 18410), (167, 18428), (178, 18461), (184, 18476), (238, 18629), (241, 18638), (256, 18683), (276, 18782), (277, 18785), (287, 18851), (295, 18896), (302, 18926), (303, 18932), (305, 18950), (316, 18974), (318, 18980), (319, 18983), (335, 19016), (338, 19022), (350, 19052), (363, 19091), (365, 19103), (367, 19112), (373, 19127), (374, 19130), (401, 19241), (402, 19244), (403, 19253), (404, 19259), (410, 19274), (411, 19277), (419, 19298), (428, 19328), (432, 19340), (440, 19373), (462, 19484), (463, 19487), (469, 19514), (471, 19520), (483, 19574), (484, 19577), (498, 19613), (511, 19664), (514, 19679), (516, 19691), (517, 19694), (528, 19760), (534, 19784), (537, 19805), (539, 19814), (552, 19874), (553, 19877), (562, 19913), (565, 19931), (571, 19943), (574, 19952), (579, 19979), (594, 20036), (595, 20048), (598, 20066), (602, 20075), (604, 20087), (610, 20123), (615, 20153), (618, 20162), (620, 20174), (626, 20198), (630, 20234), (635, 20288), (647, 20348), (652, 20390), (671, 20468), (681, 20525), (685, 20549), (692, 20603), (696, 20651), (703, 20693), (705, 20717), (706, 20720),

Gene: CheetoDust_27 Start: 20889, Stop: 23321, Start Num: 134

Candidate Starts for CheetoDust_27:

(Start: 134 @20889 has 92 MA's), (174, 20988), (263, 21249), (305, 21477), (317, 21507), (318, 21510), (323, 21540), (347, 21612), (352, 21636), (365, 21681), (401, 21834), (412, 21879), (416, 21891), (420, 21900), (433, 21951), (467, 22131), (472, 22146), (483, 22197), (487, 22215), (492, 22227), (504, 22269), (508, 22290), (517, 22332), (525, 22371), (526, 22377), (527, 22386), (532, 22407), (541, 22455), (544, 22467), (554, 22515), (574, 22584), (581, 22626), (598, 22695), (601, 22698), (603, 22707), (608, 22728), (623, 22821), (635, 22917), (647, 22980), (665, 23064), (679, 23145), (689, 23220),

Gene: Chevrolet_18 Start: 17438, Stop: 19975, Start Num: 81

Candidate Starts for Chevrolet_18:

(Start: 81 @17438 has 221 MA's), (92, 17459), (Start: 104 @17480 has 1 MA's), (121, 17519), (154, 17588), (159, 17597), (160, 17600), (167, 17618), (178, 17651), (184, 17666), (240, 17825), (241, 17828), (252, 17858), (256, 17873), (273, 17951), (276, 17972), (277, 17975), (287, 18041), (302, 18116), (303, 18122), (316, 18164), (318, 18170), (319, 18173), (335, 18206), (338, 18212), (350, 18242), (357, 18263), (365, 18293), (367, 18302), (397, 18410), (400, 18422), (401, 18431), (402, 18434), (403, 18443), (404, 18449), (410, 18464), (411, 18467), (419, 18488), (432, 18530), (440, 18563), (469, 18704), (471, 18710), (483, 18764), (484, 18767), (495, 18794), (511, 18854), (514, 18869), (516, 18881), (517, 18884), (528, 18950), (534, 18974), (537, 18995), (539, 19004), (552, 19064), (553, 19067), (562, 19103), (565, 19121), (571, 19133), (574, 19142), (579, 19169), (595, 19238), (598, 19256), (602, 19265), (604, 19277), (610, 19313), (615, 19343), (630, 19424), (635, 19478), (647, 19538), (652, 19580), (671, 19658), (681, 19715), (685, 19739), (692, 19793), (696, 19841), (703, 19883), (705, 19907), (706, 19910),

Gene: ChickenDinner_19 Start: 17271, Stop: 19796, Start Num: 81

Candidate Starts for ChickenDinner_19:

(Start: 81 @17271 has 221 MA's), (92, 17292), (Start: 104 @17313 has 1 MA's), (121, 17352), (154, 17421), (159, 17430), (160, 17433), (167, 17451), (178, 17484), (184, 17499), (202, 17547), (240, 17658), (241, 17661), (256, 17706), (273, 17784), (277, 17808), (287, 17874), (288, 17883), (302, 17949), (303, 17955), (305, 17973), (316, 17997), (318, 18003), (319, 18006), (335, 18039), (338, 18045), (350, 18075), (357, 18096), (367, 18135), (373, 18150), (375, 18156), (411, 18300), (428, 18351), (452, 18462), (463, 18513), (468, 18537), (495, 18630), (507, 18675), (510, 18684), (514, 18705), (516, 18717), (517, 18720), (525, 18765), (534, 18810), (536, 18828), (537, 18831), (547, 18882), (560, 18933), (562, 18939), (565, 18957), (571, 18969), (574, 18978), (580, 19011), (598, 19092), (612, 19161), (618, 19188), (623, 19215), (631, 19266), (635, 19314), (684, 19557), (696, 19662), (700, 19683), (708, 19737), (711, 19761),

Gene: Chill_31 Start: 24322, Stop: 26592, Start Num: 39

Candidate Starts for Chill_31:

(Start: 39 @24322 has 22 MA's), (59, 24457), (61, 24466), (102, 24640), (105, 24646), (108, 24658), (167, 24811), (173, 24826), (177, 24841), (277, 25222), (279, 25228), (284, 25273), (301, 25360), (370, 25561), (372, 25567), (382, 25615), (394, 25645), (400, 25669), (449, 25858), (456, 25885), (465, 25933), (482, 26005), (497, 26044), (503, 26065), (506, 26080), (511, 26098), (517, 26128), (536, 26212), (590, 26413), (600, 26455), (627, 26581),

Gene: ChosenOne_25 Start: 21491, Stop: 23887, Start Num: 126

Candidate Starts for ChosenOne_25:

(Start: 126 @21491 has 125 MA's), (195, 21668), (206, 21689), (264, 21836), (294, 22010), (302, 22043), (309, 22079), (350, 22172), (367, 22232), (374, 22250), (406, 22382), (422, 22427), (453, 22559), (462, 22604), (478, 22664), (510, 22778), (514, 22799), (522, 22838), (525, 22859), (527, 22874), (560, 23024), (562, 23030), (565, 23048), (580, 23102), (598, 23186), (618, 23279), (661, 23525), (696, 23741), (706, 23825), (712, 23858),

Gene: ChotaBhai_26 Start: 21533, Stop: 23929, Start Num: 126

Candidate Starts for ChotaBhai_26:

(Start: 126 @21533 has 125 MA's), (195, 21710), (206, 21731), (264, 21878), (288, 22019), (294, 22052), (302, 22085), (309, 22121), (350, 22214), (367, 22274), (374, 22292), (406, 22424), (422, 22469), (453, 22601), (462, 22646), (510, 22820), (514, 22841), (522, 22880), (525, 22901), (527, 22916), (562, 23072), (565, 23090), (580, 23144), (598, 23228), (618, 23321), (661, 23567), (696, 23783), (706, 23867), (712, 23900),

Gene: Chris_26 Start: 20139, Stop: 22598, Start Num: 134

Candidate Starts for Chris_26:

(Start: 134 @20139 has 92 MA's), (136, 20148), (154, 20187), (196, 20310), (219, 20367), (256, 20472), (267, 20520), (272, 20547), (303, 20709), (330, 20820), (332, 20829), (333, 20838), (340, 20859), (352, 20907), (380, 21009), (417, 21168), (438, 21249), (458, 21351), (467, 21405), (481, 21465), (499, 21528), (504, 21543), (505, 21555), (508, 21564), (517, 21606), (525, 21651), (527, 21666), (546, 21753), (551, 21777), (608, 22014), (624, 22110), (643, 22248), (660, 22332), (695, 22563), (696, 22569),

Gene: Chuckly_18 Start: 17569, Stop: 20106, Start Num: 81

Candidate Starts for Chuckly_18:

(76, 17557), (Start: 81 @17569 has 221 MA's), (92, 17590), (Start: 104 @17611 has 1 MA's), (121, 17650), (154, 17719), (159, 17728), (160, 17731), (167, 17749), (178, 17782), (184, 17797), (202, 17845), (240, 17956), (241, 17959), (252, 17989), (255, 18001), (256, 18004), (273, 18082), (277, 18106), (287, 18172), (295, 18217), (302, 18247), (303, 18253), (305, 18271), (316, 18295), (319, 18304), (335, 18337), (338, 18343), (350, 18373), (363, 18412), (365, 18424), (367, 18433), (373, 18448), (375, 18454), (401, 18562), (402, 18565), (403, 18574), (404, 18580), (410, 18595), (411, 18598), (419, 18619), (428, 18649), (432, 18661), (440, 18694), (453, 18760), (462, 18805), (463, 18808), (469, 18835), (471, 18841), (483, 18895), (484, 18898), (511, 18985), (514, 19000), (516, 19012), (517, 19015), (528, 19081), (534, 19105), (537, 19126), (539, 19135), (552, 19195), (553, 19198), (562, 19234), (565, 19252), (574, 19273), (579, 19300), (595, 19369), (598, 19387), (602, 19396), (604, 19408), (610, 19444), (615, 19474), (620, 19495), (626, 19519), (630, 19555), (635, 19609), (647, 19669), (652, 19711), (681, 19846), (685, 19870), (692, 19924), (696, 19972), (703, 20014), (705, 20038), (706, 20041),

Gene: Cjw1_26 Start: 23044, Stop: 25440, Start Num: 126

Candidate Starts for Cjw1_26:

(Start: 126 @23044 has 125 MA's), (195, 23221), (206, 23242), (264, 23389), (294, 23563), (302, 23596), (309, 23632), (367, 23785), (374, 23803), (406, 23935), (422, 23980), (453, 24112), (462, 24157), (478, 24217), (510, 24331), (514, 24352), (522, 24391), (525, 24412), (527, 24427), (560, 24577), (562, 24583), (565, 24601), (580, 24655), (598, 24739), (618, 24832), (661, 25078), (696, 25294), (706, 25378), (712, 25411),

Gene: Clipper_29 Start: 20889, Stop: 23321, Start Num: 134

Candidate Starts for Clipper_29:

(Start: 134 @20889 has 92 MA's), (174, 20988), (263, 21249), (267, 21270), (305, 21477), (318, 21510), (323, 21540), (347, 21612), (352, 21636), (365, 21681), (401, 21834), (412, 21879), (416, 21891), (420, 21900), (433, 21951), (467, 22131), (472, 22146), (487, 22215), (492, 22227), (508, 22290), (517, 22332), (525, 22371), (526, 22377), (527, 22386), (532, 22407), (544, 22467), (574, 22584), (581, 22626), (601, 22698), (603, 22707), (608, 22728), (619, 22800), (623, 22821), (635, 22917), (679, 23145), (696, 23292),

Gene: Coco12_20 Start: 17795, Stop: 20272, Start Num: 81

Candidate Starts for Coco12_20:

(78, 17783), (Start: 81 @17795 has 221 MA's), (92, 17816), (Start: 104 @17837 has 1 MA's), (122, 17876), (154, 17945), (159, 17954), (160, 17957), (167, 17975), (178, 18008), (184, 18023), (224, 18110), (229, 18125), (241, 18161), (242, 18167), (256, 18200), (260, 18212), (292, 18383), (295, 18392), (302, 18416), (318, 18470), (335, 18506), (338, 18512), (350, 18542), (359, 18572), (365, 18593), (367, 18602), (391, 18686), (404, 18749), (411, 18767), (415, 18776), (422, 18797), (423, 18800), (428, 18818), (432, 18830), (439, 18857), (441, 18866), (450, 18917), (451, 18926), (453, 18929), (460, 18956), (461, 18965), (465, 18986), (483, 19064), (484, 19067), (515, 19175), (516, 19181), (525, 19229), (533, 19271), (534, 19274), (537, 19295), (538, 19301), (539, 19304), (545, 19334), (578, 19475), (581, 19493), (587, 19526), (595, 19550), (596, 19553), (598, 19568), (604,

19589), (610, 19625), (611, 19631), (616, 19658), (622, 19685), (639, 19820), (649, 19868), (651, 19892), (653, 19898), (661, 19916), (681, 20015), (684, 20036), (687, 20054), (696, 20132), (700, 20153), (709, 20216), (710, 20234), (713, 20252),

Gene: Command613_27 Start: 22552, Stop: 24948, Start Num: 126

Candidate Starts for Command613_27:

(Start: 126 @22552 has 125 MA's), (195, 22729), (206, 22750), (264, 22897), (288, 23038), (294, 23071), (302, 23104), (309, 23140), (350, 23233), (367, 23293), (374, 23311), (396, 23392), (453, 23620), (462, 23665), (514, 23860), (515, 23866), (517, 23875), (525, 23920), (527, 23935), (562, 24091), (565, 24109), (568, 24118), (598, 24247), (599, 24250), (634, 24460), (636, 24472), (661, 24586), (696, 24802), (706, 24886), (710, 24910), (712, 24919),

Gene: Contagion_25 Start: 21791, Stop: 24187, Start Num: 126

Candidate Starts for Contagion_25:

(Start: 126 @21791 has 125 MA's), (195, 21968), (206, 21989), (264, 22136), (288, 22277), (294, 22310), (302, 22343), (309, 22379), (350, 22472), (367, 22532), (374, 22550), (406, 22682), (422, 22727), (453, 22859), (462, 22904), (510, 23078), (514, 23099), (522, 23138), (525, 23159), (527, 23174), (562, 23330), (565, 23348), (580, 23402), (598, 23486), (618, 23579), (661, 23825), (696, 24041), (706, 24125), (712, 24158),

Gene: Cookies_26 Start: 22153, Stop: 24549, Start Num: 126

Candidate Starts for Cookies_26:

(Start: 126 @22153 has 125 MA's), (195, 22330), (206, 22351), (264, 22498), (288, 22639), (294, 22672), (302, 22705), (309, 22741), (350, 22834), (367, 22894), (374, 22912), (406, 23044), (422, 23089), (453, 23221), (462, 23266), (478, 23326), (510, 23440), (514, 23461), (522, 23500), (525, 23521), (527, 23536), (560, 23686), (562, 23692), (565, 23710), (580, 23764), (598, 23848), (618, 23941), (661, 24187), (696, 24403), (706, 24487), (712, 24520),

Gene: Corium_18 Start: 17437, Stop: 19974, Start Num: 81

Candidate Starts for Corium_18:

(76, 17425), (Start: 81 @17437 has 221 MA's), (92, 17458), (Start: 104 @17479 has 1 MA's), (121, 17518), (154, 17587), (159, 17596), (160, 17599), (167, 17617), (178, 17650), (184, 17665), (202, 17713), (240, 17824), (241, 17827), (252, 17857), (255, 17869), (256, 17872), (273, 17950), (277, 17974), (287, 18040), (295, 18085), (302, 18115), (303, 18121), (305, 18139), (316, 18163), (319, 18172), (335, 18205), (338, 18211), (350, 18241), (363, 18280), (365, 18292), (367, 18301), (373, 18316), (374, 18319), (401, 18430), (402, 18433), (403, 18442), (404, 18448), (410, 18463), (411, 18466), (419, 18487), (428, 18517), (432, 18529), (440, 18562), (462, 18673), (463, 18676), (469, 18703), (471, 18709), (483, 18763), (484, 18766), (511, 18853), (514, 18868), (516, 18880), (517, 18883), (528, 18949), (534, 18973), (537, 18994), (539, 19003), (552, 19063), (553, 19066), (562, 19102), (565, 19120), (571, 19132), (574, 19141), (579, 19168), (595, 19237), (598, 19255), (602, 19264), (604, 19276), (610, 19312), (615, 19342), (620, 19363), (626, 19387), (630, 19423), (635, 19477), (647, 19537), (652, 19579), (671, 19657), (681, 19714), (685, 19738), (692, 19792), (696, 19840), (703, 19882), (705, 19906), (706, 19909),

Gene: Corndog_61 Start: 37139, Stop: 39649, Start Num: 96

Candidate Starts for Corndog_61:

(Start: 96 @37139 has 28 MA's), (108, 37172), (136, 37241), (137, 37244), (147, 37268), (160, 37292), (170, 37316), (178, 37349), (245, 37556), (248, 37568), (249, 37571), (281, 37718), (282, 37748), (287, 37772), (295, 37802), (296, 37805), (302, 37832), (305, 37856), (318, 37886), (344, 37943), (363, 38003), (365, 38015), (373, 38039), (374, 38042), (382, 38084), (410, 38180), (411, 38183), (475, 38438), (514, 38582), (525, 38642), (536, 38714), (537, 38717), (558, 38813), (598, 38987), (604, 39008), (622, 39101), (625, 39113), (635, 39203), (650, 39278), (670, 39323), (699, 39524), (704, 39578), (709, 39593),

Gene: Cornie_20 Start: 18264, Stop: 20744, Start Num: 84

Candidate Starts for Cornie_20:

(Start: 84 @18264 has 1 MA's), (86, 18270), (92, 18276), (Start: 126 @18339 has 125 MA's), (127, 18342), (138, 18369), (164, 18423), (167, 18432), (178, 18465), (189, 18498), (202, 18531), (224, 18570), (229, 18585), (241, 18621), (242, 18627), (243, 18630), (254, 18648), (256, 18660), (260, 18672), (266, 18696), (267, 18699), (285, 18804), (288, 18828), (292, 18843), (295, 18852), (302, 18876), (303, 18882), (305, 18900), (309, 18912), (312, 18918), (316, 18924), (318, 18930), (319, 18933), (322, 18942), (326, 18951), (335, 18966), (350, 19002), (363, 19041), (365, 19053), (367, 19062), (391, 19146), (411, 19227), (415, 19236), (423, 19260), (432, 19290), (441, 19326), (450, 19377), (451, 19386), (453, 19389), (460, 19416), (461, 19425), (465, 19446), (474, 19482), (483, 19524), (484, 19527), (504, 19581), (516, 19641), (532, 19728), (534, 19734), (537, 19755), (545, 19791), (557, 19845), (560, 19854), (578, 19932), (581, 19950), (589, 19986), (591, 19989), (595, 20007), (598, 20025), (610, 20082), (612, 20094), (626, 20157), (630, 20190), (639, 20277), (649, 20325), (651, 20349), (657, 20376), (661, 20385), (670, 20424), (677, 20463), (681, 20487), (684, 20508), (696, 20604), (700, 20625), (707, 20685), (709, 20688), (712, 20715),

Gene: Cornucopia_19 Start: 17435, Stop: 19972, Start Num: 81

Candidate Starts for Cornucopia_19:

(Start: 81 @17435 has 221 MA's), (92, 17456), (Start: 104 @17477 has 1 MA's), (121, 17516), (154, 17585), (159, 17594), (160, 17597), (167, 17615), (184, 17663), (238, 17816), (241, 17825), (256, 17870), (276, 17969), (277, 17972), (287, 18038), (302, 18113), (303, 18119), (305, 18137), (316, 18161), (319, 18170), (335, 18203), (338, 18209), (350, 18239), (357, 18260), (363, 18278), (365, 18290), (367, 18299), (373, 18314), (374, 18317), (401, 18428), (402, 18431), (403, 18440), (404, 18446), (410, 18461), (411, 18464), (419, 18485), (428, 18515), (432, 18527), (440, 18560), (462, 18671), (463, 18674), (469, 18701), (471, 18707), (483, 18761), (484, 18764), (501, 18812), (511, 18851), (514, 18866), (516, 18878), (517, 18881), (521, 18902), (528, 18947), (534, 18971), (539, 19001), (547, 19043), (552, 19061), (553, 19064), (562, 19100), (565, 19118), (571, 19130), (574, 19139), (580, 19172), (595, 19235), (598, 19253), (602, 19262), (604, 19274), (615, 19340), (620, 19361), (626, 19385), (630, 19421), (635, 19475), (647, 19535), (652, 19577), (671, 19655), (681, 19712), (685, 19736), (692, 19790), (696, 19838), (703, 19880), (705, 19904), (706, 19907),

Gene: Cosmo_43 Start: 28347, Stop: 30914, Start Num: 83

Candidate Starts for Cosmo_43:

(Start: 83 @28347 has 6 MA's), (109, 28416), (164, 28539), (166, 28545), (167, 28548), (177, 28572), (182, 28593), (237, 28749), (239, 28755), (241, 28761), (249, 28791), (250, 28797), (256, 28818), (258, 28827), (271, 28887), (278, 28923), (284, 28965), (303, 29064), (310, 29097), (318, 29112), (319, 29115), (338, 29154), (357, 29205), (363, 29223), (367, 29244), (370, 29250), (378, 29277), (382, 29304), (401, 29373), (408, 29397), (415, 29418), (422, 29439), (427, 29448), (432, 29469), (440, 29502), (441, 29505), (450, 29556), (453, 29568), (466, 29634), (472, 29652), (479, 29691), (514, 29808), (523, 29853), (533, 29910), (537, 29934), (539, 29943), (542, 29961), (552, 30006), (560, 30039), (567, 30075), (609, 30249), (610, 30267), (611, 30273), (623, 30330), (680, 30654), (682, 30672), (690, 30723), (697, 30786), (705, 30861),

Gene: Courthouse_36 Start: 27742, Stop: 30249, Start Num: 81

Candidate Starts for Courthouse_36:

(Start: 81 @27742 has 221 MA's), (167, 27937), (178, 27973), (184, 27988), (224, 28075), (229, 28090), (256, 28165), (260, 28177), (267, 28204), (285, 28309), (292, 28348), (295, 28357), (302, 28381), (303, 28387), (305, 28405), (312, 28423), (319, 28438), (322, 28447), (326, 28456), (335, 28471), (346, 28498), (350, 28507), (363, 28546), (365, 28558), (367, 28567), (391, 28651), (411, 28732), (422, 28762), (423, 28765), (432, 28795), (439, 28822), (441, 28831), (450, 28882), (451, 28891), (453, 28894), (461, 28930), (465, 28951), (474, 28987), (515, 29140), (525, 29194), (534, 29239), (536, 29257), (537, 29260), (545, 29299), (578, 29446), (580, 29455), (596, 29524), (598,

29539), (630, 29704), (639, 29791), (649, 29839), (661, 29890), (677, 29968), (707, 30190), (709, 30193), (712, 30220),

Gene: CrimD_27 Start: 20850, Stop: 23282, Start Num: 134

Candidate Starts for CrimD_27:

(Start: 134 @20850 has 92 MA's), (174, 20949), (263, 21210), (305, 21438), (318, 21471), (323, 21501), (347, 21573), (352, 21597), (365, 21642), (401, 21795), (412, 21840), (416, 21852), (420, 21861), (430, 21897), (433, 21912), (467, 22092), (472, 22107), (487, 22176), (492, 22188), (508, 22251), (517, 22293), (525, 22332), (526, 22338), (527, 22347), (532, 22368), (544, 22428), (574, 22545), (581, 22587), (603, 22668), (608, 22689), (623, 22782), (635, 22878), (679, 23106),

Gene: CrystalP_26 Start: 22284, Stop: 24680, Start Num: 126

Candidate Starts for CrystalP_26:

(Start: 126 @22284 has 125 MA's), (195, 22461), (206, 22482), (264, 22629), (288, 22770), (294, 22803), (302, 22836), (309, 22872), (350, 22965), (367, 23025), (374, 23043), (396, 23124), (453, 23352), (462, 23397), (514, 23592), (515, 23598), (517, 23607), (525, 23652), (527, 23667), (562, 23823), (565, 23841), (568, 23850), (598, 23979), (599, 23982), (634, 24192), (636, 24204), (661, 24318), (696, 24534), (706, 24618), (710, 24642), (712, 24651),

Gene: Czyszczone1_27 Start: 22029, Stop: 24425, Start Num: 126

Candidate Starts for Czyszczone1_27:

(Start: 126 @22029 has 125 MA's), (195, 22206), (206, 22227), (264, 22374), (294, 22548), (302, 22581), (309, 22617), (350, 22710), (367, 22770), (374, 22788), (406, 22920), (422, 22965), (453, 23097), (462, 23142), (478, 23202), (510, 23316), (514, 23337), (522, 23376), (525, 23397), (527, 23412), (560, 23562), (562, 23568), (565, 23586), (580, 23640), (598, 23724), (618, 23817), (661, 24063), (696, 24279), (706, 24363), (712, 24396),

Gene: DLane_18 Start: 17386, Stop: 19923, Start Num: 81

Candidate Starts for DLane_18:

(76, 17374), (Start: 81 @17386 has 221 MA's), (92, 17407), (Start: 104 @17428 has 1 MA's), (121, 17467), (154, 17536), (159, 17545), (160, 17548), (167, 17566), (178, 17599), (184, 17614), (202, 17662), (240, 17773), (241, 17776), (252, 17806), (254, 17809), (256, 17821), (273, 17899), (277, 17923), (287, 17989), (295, 18034), (302, 18064), (303, 18070), (305, 18088), (316, 18112), (319, 18121), (335, 18154), (338, 18160), (350, 18190), (365, 18241), (367, 18250), (373, 18265), (374, 18268), (401, 18379), (402, 18382), (403, 18391), (404, 18397), (410, 18412), (411, 18415), (419, 18436), (428, 18466), (432, 18478), (440, 18511), (462, 18622), (463, 18625), (469, 18652), (471, 18658), (483, 18712), (484, 18715), (514, 18817), (516, 18829), (517, 18832), (528, 18898), (534, 18922), (537, 18943), (539, 18952), (552, 19012), (553, 19015), (562, 19051), (565, 19069), (571, 19081), (574, 19090), (579, 19117), (595, 19186), (598, 19204), (602, 19213), (604, 19225), (610, 19261), (615, 19291), (620, 19312), (626, 19336), (630, 19372), (635, 19426), (647, 19486), (652, 19528), (671, 19606), (681, 19663), (685, 19687), (692, 19741), (696, 19789), (703, 19831), (705, 19855), (706, 19858),

Gene: DRBy19_18 Start: 17429, Stop: 19966, Start Num: 81

Candidate Starts for DRBy19_18:

(Start: 81 @17429 has 221 MA's), (92, 17450), (Start: 104 @17471 has 1 MA's), (121, 17510), (154, 17579), (159, 17588), (160, 17591), (167, 17609), (184, 17657), (238, 17810), (241, 17819), (256, 17864), (273, 17942), (277, 17966), (287, 18032), (295, 18077), (302, 18107), (303, 18113), (305, 18131), (316, 18155), (319, 18164), (335, 18197), (338, 18203), (350, 18233), (363, 18272), (367, 18293), (373, 18308), (374, 18311), (402, 18425), (403, 18434), (404, 18440), (411, 18458), (419, 18479), (428, 18509), (432, 18521), (440, 18554), (462, 18665), (463, 18668), (469, 18695), (471, 18701), (483, 18755), (484, 18758), (511, 18845), (514, 18860), (517, 18875), (534, 18965), (537, 18986), (539, 18995), (552, 19055), (553, 19058), (562, 19094), (565, 19112), (571, 19124), (574,

19133), (579, 19160), (595, 19229), (598, 19247), (602, 19256), (604, 19268), (610, 19304), (615, 19334), (620, 19355), (626, 19379), (630, 19415), (635, 19469), (652, 19571), (671, 19649), (681, 19706), (685, 19730), (692, 19784), (696, 19832), (703, 19874), (708, 19907), (709, 19910),

Gene: DaWorst_20 Start: 17930, Stop: 20467, Start Num: 81

Candidate Starts for DaWorst_20:

(Start: 81 @17930 has 221 MA's), (92, 17951), (Start: 104 @17972 has 1 MA's), (121, 18011), (154, 18080), (159, 18089), (160, 18092), (167, 18110), (178, 18143), (184, 18158), (240, 18317), (241, 18320), (252, 18350), (256, 18365), (273, 18443), (276, 18464), (277, 18467), (287, 18533), (302, 18608), (303, 18614), (316, 18656), (318, 18662), (319, 18665), (335, 18698), (338, 18704), (350, 18734), (357, 18755), (365, 18785), (367, 18794), (397, 18902), (400, 18914), (401, 18923), (402, 18926), (403, 18935), (404, 18941), (410, 18956), (411, 18959), (419, 18980), (432, 19022), (440, 19055), (469, 19196), (471, 19202), (483, 19256), (484, 19259), (495, 19286), (511, 19346), (514, 19361), (516, 19373), (517, 19376), (528, 19442), (534, 19466), (537, 19487), (539, 19496), (552, 19556), (553, 19559), (562, 19595), (565, 19613), (571, 19625), (574, 19634), (579, 19661), (595, 19730), (598, 19748), (602, 19757), (604, 19769), (610, 19805), (615, 19835), (630, 19916), (635, 19970), (647, 20030), (652, 20072), (671, 20150), (681, 20207), (685, 20231), (692, 20285), (696, 20333), (703, 20375), (705, 20399), (706, 20402),

Gene: DaddyRickover_18 Start: 17568, Stop: 20105, Start Num: 81

Candidate Starts for DaddyRickover_18:

(76, 17556), (Start: 81 @17568 has 221 MA's), (92, 17589), (Start: 104 @17610 has 1 MA's), (121, 17649), (154, 17718), (159, 17727), (160, 17730), (167, 17748), (184, 17796), (202, 17844), (240, 17955), (241, 17958), (256, 18003), (273, 18081), (277, 18105), (287, 18171), (295, 18216), (302, 18246), (303, 18252), (305, 18270), (316, 18294), (319, 18303), (335, 18336), (338, 18342), (350, 18372), (363, 18411), (365, 18423), (367, 18432), (373, 18447), (374, 18450), (401, 18561), (402, 18564), (403, 18573), (404, 18579), (410, 18594), (411, 18597), (419, 18618), (428, 18648), (432, 18660), (440, 18693), (462, 18804), (463, 18807), (469, 18834), (471, 18840), (483, 18894), (484, 18897), (514, 18999), (516, 19011), (517, 19014), (528, 19080), (534, 19104), (537, 19125), (539, 19134), (552, 19194), (553, 19197), (562, 19233), (565, 19251), (574, 19272), (579, 19299), (595, 19368), (598, 19386), (602, 19395), (604, 19407), (610, 19443), (620, 19494), (624, 19512), (630, 19554), (635, 19608), (652, 19710), (681, 19845), (685, 19869), (692, 19923), (700, 19992), (705, 20037), (706, 20040),

Gene: Daenerys_18 Start: 17400, Stop: 19937, Start Num: 81

Candidate Starts for Daenerys_18:

(76, 17388), (Start: 81 @17400 has 221 MA's), (92, 17421), (Start: 104 @17442 has 1 MA's), (121, 17481), (154, 17550), (159, 17559), (160, 17562), (167, 17580), (184, 17628), (202, 17676), (240, 17787), (241, 17790), (256, 17835), (273, 17913), (277, 17937), (287, 18003), (295, 18048), (302, 18078), (303, 18084), (305, 18102), (316, 18126), (319, 18135), (335, 18168), (338, 18174), (350, 18204), (363, 18243), (365, 18255), (367, 18264), (373, 18279), (374, 18282), (401, 18393), (402, 18396), (403, 18405), (404, 18411), (410, 18426), (411, 18429), (419, 18450), (428, 18480), (432, 18492), (440, 18525), (462, 18636), (463, 18639), (469, 18666), (471, 18672), (483, 18726), (484, 18729), (514, 18831), (516, 18843), (517, 18846), (528, 18912), (534, 18936), (537, 18957), (539, 18966), (552, 19026), (553, 19029), (562, 19065), (565, 19083), (574, 19104), (579, 19131), (595, 19200), (598, 19218), (602, 19227), (604, 19239), (610, 19275), (620, 19326), (624, 19344), (630, 19386), (635, 19440), (652, 19542), (681, 19677), (685, 19701), (692, 19755), (700, 19824), (705, 19869), (706, 19872),

Gene: Daikon_24 Start: 22021, Stop: 24417, Start Num: 126

Candidate Starts for Daikon_24:

(Start: 126 @22021 has 125 MA's), (195, 22198), (206, 22219), (264, 22366), (288, 22507), (294, 22540), (302, 22573), (309, 22609), (350, 22702), (367, 22762), (374, 22780), (415, 22936), (422,

22957), (450, 23077), (453, 23089), (462, 23134), (514, 23329), (517, 23344), (525, 23389), (527, 23404), (562, 23560), (565, 23578), (568, 23587), (598, 23716), (599, 23719), (634, 23929), (636, 23941), (661, 24055), (696, 24271), (706, 24355), (710, 24379), (712, 24388),

Gene: Dalmuri_27 Start: 20912, Stop: 23344, Start Num: 134

Candidate Starts for Dalmuri_27:

(Start: 134 @20912 has 92 MA's), (174, 21011), (263, 21272), (267, 21293), (305, 21500), (318, 21533), (323, 21563), (347, 21635), (352, 21659), (401, 21857), (412, 21902), (416, 21914), (420, 21923), (433, 21974), (467, 22154), (472, 22169), (487, 22238), (492, 22250), (508, 22313), (517, 22355), (525, 22394), (526, 22400), (527, 22409), (532, 22430), (544, 22490), (574, 22607), (581, 22649), (601, 22721), (603, 22730), (608, 22751), (619, 22823), (623, 22844), (635, 22940), (665, 23087), (679, 23168), (696, 23315),

Gene: Damien_29 Start: 25682, Stop: 28525, Start Num: 35

Candidate Starts for Damien_29:

(Start: 35 @25682 has 8 MA's), (56, 25814), (58, 25826), (60, 25835), (69, 25904), (71, 25910), (98, 25970), (107, 25991), (125, 26039), (139, 26081), (155, 26105), (168, 26138), (180, 26174), (185, 26186), (223, 26279), (241, 26336), (251, 26375), (279, 26501), (288, 26570), (293, 26600), (303, 26642), (319, 26693), (354, 26783), (363, 26801), (382, 26882), (396, 26921), (400, 26942), (440, 27080), (446, 27119), (461, 27182), (484, 27284), (537, 27509), (616, 27872), (622, 27899), (658, 28142), (669, 28175), (672, 28199), (691, 28319), (701, 28397), (712, 28484), (714, 28499), (715, 28505),

Gene: Dante_18 Start: 17416, Stop: 19953, Start Num: 81

Candidate Starts for Dante_18:

(76, 17404), (Start: 81 @17416 has 221 MA's), (92, 17437), (Start: 104 @17458 has 1 MA's), (121, 17497), (154, 17566), (159, 17575), (160, 17578), (167, 17596), (178, 17629), (184, 17644), (202, 17692), (238, 17797), (240, 17803), (241, 17806), (255, 17848), (256, 17851), (273, 17929), (277, 17953), (287, 18019), (295, 18064), (302, 18094), (303, 18100), (305, 18118), (316, 18142), (319, 18151), (335, 18184), (338, 18190), (350, 18220), (363, 18259), (365, 18271), (367, 18280), (373, 18295), (374, 18298), (401, 18409), (402, 18412), (403, 18421), (404, 18427), (410, 18442), (411, 18445), (419, 18466), (428, 18496), (440, 18541), (462, 18652), (463, 18655), (469, 18682), (471, 18688), (483, 18742), (484, 18745), (514, 18847), (516, 18859), (517, 18862), (528, 18928), (534, 18952), (537, 18973), (539, 18982), (552, 19042), (553, 19045), (562, 19081), (565, 19099), (571, 19111), (574, 19120), (579, 19147), (595, 19216), (598, 19234), (602, 19243), (604, 19255), (610, 19291), (615, 19321), (620, 19342), (626, 19366), (630, 19402), (635, 19456), (647, 19516), (652, 19558), (671, 19636), (681, 19693), (685, 19717), (692, 19771), (696, 19819), (703, 19861), (705, 19885), (706, 19888),

Gene: DeadP_18 Start: 17430, Stop: 19967, Start Num: 81

Candidate Starts for DeadP_18:

(76, 17418), (Start: 81 @17430 has 221 MA's), (92, 17451), (Start: 104 @17472 has 1 MA's), (121, 17511), (154, 17580), (159, 17589), (160, 17592), (167, 17610), (178, 17643), (184, 17658), (202, 17706), (238, 17811), (240, 17817), (241, 17820), (255, 17862), (256, 17865), (273, 17943), (287, 18033), (295, 18078), (302, 18108), (303, 18114), (305, 18132), (316, 18156), (319, 18165), (335, 18198), (338, 18204), (350, 18234), (363, 18273), (365, 18285), (367, 18294), (373, 18309), (374, 18312), (401, 18423), (402, 18426), (403, 18435), (404, 18441), (410, 18456), (411, 18459), (419, 18480), (428, 18510), (432, 18522), (440, 18555), (462, 18666), (463, 18669), (469, 18696), (471, 18702), (483, 18756), (484, 18759), (511, 18846), (514, 18861), (516, 18873), (517, 18876), (528, 18942), (534, 18966), (537, 18987), (539, 18996), (552, 19056), (553, 19059), (562, 19095), (565, 19113), (571, 19125), (574, 19134), (579, 19161), (595, 19230), (598, 19248), (602, 19257), (604, 19269), (610, 19305), (615, 19335), (620, 19356), (626, 19380), (630, 19416), (635, 19470), (647, 19530), (652, 19572), (681, 19707), (685, 19731), (692, 19785), (696, 19833), (703, 19875), (705,

19899), (706, 19902),

Gene: Deb65_18 Start: 17397, Stop: 19934, Start Num: 81

Candidate Starts for Deb65_18:

(Start: 81 @17397 has 221 MA's), (92, 17418), (Start: 104 @17439 has 1 MA's), (121, 17478), (154, 17547), (159, 17556), (160, 17559), (167, 17577), (184, 17625), (202, 17673), (240, 17784), (241, 17787), (256, 17832), (273, 17910), (277, 17934), (287, 18000), (302, 18075), (303, 18081), (305, 18099), (316, 18123), (319, 18132), (335, 18165), (338, 18171), (350, 18201), (357, 18222), (365, 18252), (367, 18261), (397, 18369), (400, 18381), (401, 18390), (402, 18393), (404, 18408), (410, 18423), (411, 18426), (419, 18447), (432, 18489), (440, 18522), (462, 18633), (463, 18636), (469, 18663), (471, 18669), (483, 18723), (484, 18726), (495, 18753), (514, 18828), (516, 18840), (517, 18843), (528, 18909), (533, 18930), (534, 18933), (537, 18954), (539, 18963), (547, 19005), (552, 19023), (553, 19026), (560, 19056), (565, 19080), (571, 19092), (574, 19101), (595, 19197), (598, 19215), (602, 19224), (604, 19236), (610, 19272), (615, 19302), (618, 19311), (620, 19323), (630, 19383), (635, 19437), (647, 19497), (652, 19539), (681, 19674), (685, 19698), (692, 19752), (696, 19800), (703, 19842), (705, 19866), (706, 19869),

Gene: Deby_27 Start: 20846, Stop: 23278, Start Num: 134

Candidate Starts for Deby_27:

(Start: 134 @20846 has 92 MA's), (174, 20945), (263, 21206), (267, 21227), (305, 21434), (318, 21467), (323, 21497), (347, 21569), (352, 21593), (401, 21791), (412, 21836), (416, 21848), (420, 21857), (433, 21908), (467, 22088), (472, 22103), (487, 22172), (492, 22184), (508, 22247), (517, 22289), (525, 22328), (526, 22334), (527, 22343), (532, 22364), (544, 22424), (552, 22457), (554, 22472), (555, 22475), (569, 22529), (574, 22541), (601, 22655), (603, 22664), (608, 22685), (619, 22757), (623, 22778), (635, 22874), (679, 23102), (696, 23249),

Gene: Delton_30 Start: 24328, Stop: 26598, Start Num: 39

Candidate Starts for Delton_30:

(Start: 39 @24328 has 22 MA's), (59, 24463), (61, 24472), (102, 24646), (105, 24652), (108, 24664), (167, 24817), (173, 24832), (177, 24847), (277, 25228), (279, 25234), (284, 25279), (301, 25366), (370, 25567), (372, 25573), (382, 25621), (394, 25651), (400, 25675), (449, 25864), (456, 25891), (465, 25939), (482, 26011), (497, 26050), (503, 26071), (506, 26086), (511, 26104), (517, 26134), (536, 26218), (590, 26419), (600, 26461), (627, 26587),

Gene: Demsculpinboyz_24 Start: 17086, Stop: 19635, Start Num: 65

Candidate Starts for Demsculpinboyz_24:

(63, 17077), (Start: 65 @17086 has 7 MA's), (Start: 81 @17146 has 221 MA's), (100, 17179), (101, 17182), (133, 17251), (145, 17281), (224, 17461), (229, 17476), (241, 17512), (242, 17518), (254, 17539), (260, 17563), (266, 17587), (292, 17734), (295, 17743), (302, 17767), (305, 17791), (316, 17815), (318, 17821), (326, 17842), (338, 17863), (350, 17893), (359, 17923), (365, 17944), (391, 18037), (396, 18052), (397, 18061), (399, 18070), (401, 18082), (402, 18085), (428, 18169), (429, 18172), (432, 18181), (439, 18208), (441, 18217), (447, 18256), (451, 18277), (453, 18280), (461, 18316), (465, 18337), (483, 18415), (484, 18418), (516, 18532), (532, 18619), (534, 18625), (537, 18646), (545, 18682), (557, 18736), (560, 18745), (578, 18823), (581, 18841), (589, 18877), (591, 18880), (595, 18898), (598, 18916), (610, 18973), (612, 18985), (626, 19048), (630, 19081), (639, 19168), (649, 19216), (651, 19240), (661, 19276), (670, 19315), (677, 19354), (681, 19378), (684, 19399), (696, 19495), (700, 19516), (707, 19576), (709, 19579), (712, 19606),

Gene: Devera_27 Start: 20893, Stop: 23325, Start Num: 134

Candidate Starts for Devera_27:

(Start: 134 @20893 has 92 MA's), (154, 20941), (174, 20992), (263, 21253), (267, 21274), (305, 21481), (318, 21514), (323, 21544), (347, 21616), (352, 21640), (365, 21685), (401, 21838), (416, 21895), (420, 21904), (430, 21940), (433, 21955), (467, 22135), (472, 22150), (487, 22219), (492,

22231), (508, 22294), (517, 22336), (525, 22375), (526, 22381), (527, 22390), (532, 22411), (544, 22471), (554, 22519), (569, 22576), (574, 22588), (581, 22630), (601, 22702), (603, 22711), (619, 22804), (623, 22825), (635, 22921), (646, 22975), (665, 23068), (679, 23149), (696, 23296),

Gene: DillTech15_18 Start: 17434, Stop: 19971, Start Num: 81

Candidate Starts for DillTech15_18:

(Start: 81 @17434 has 221 MA's), (92, 17455), (Start: 104 @17476 has 1 MA's), (121, 17515), (154, 17584), (159, 17593), (160, 17596), (167, 17614), (178, 17647), (184, 17662), (238, 17815), (241, 17824), (256, 17869), (276, 17968), (277, 17971), (287, 18037), (295, 18082), (302, 18112), (303, 18118), (305, 18136), (316, 18160), (318, 18166), (319, 18169), (335, 18202), (338, 18208), (350, 18238), (363, 18277), (365, 18289), (367, 18298), (373, 18313), (374, 18316), (401, 18427), (402, 18430), (403, 18439), (404, 18445), (410, 18460), (411, 18463), (419, 18484), (428, 18514), (432, 18526), (440, 18559), (462, 18670), (463, 18673), (469, 18700), (471, 18706), (483, 18760), (484, 18763), (511, 18850), (514, 18865), (516, 18877), (517, 18880), (528, 18946), (534, 18970), (537, 18991), (539, 19000), (552, 19060), (553, 19063), (562, 19099), (565, 19117), (571, 19129), (574, 19138), (579, 19165), (595, 19234), (598, 19252), (602, 19261), (604, 19273), (610, 19309), (615, 19339), (618, 19348), (620, 19360), (626, 19384), (630, 19420), (635, 19474), (647, 19534), (652, 19576), (681, 19711), (685, 19735), (692, 19789), (696, 19837), (703, 19879), (705, 19903), (706, 19906),

Gene: DirtMcgirt_19 Start: 17221, Stop: 19758, Start Num: 81

Candidate Starts for DirtMcgirt_19:

(76, 17209), (Start: 81 @17221 has 221 MA's), (92, 17242), (Start: 104 @17263 has 1 MA's), (121, 17302), (154, 17371), (159, 17380), (160, 17383), (167, 17401), (178, 17434), (184, 17449), (202, 17497), (238, 17602), (241, 17611), (255, 17653), (256, 17656), (273, 17734), (277, 17758), (287, 17824), (295, 17869), (302, 17899), (303, 17905), (305, 17923), (316, 17947), (319, 17956), (335, 17989), (338, 17995), (350, 18025), (363, 18064), (365, 18076), (367, 18085), (373, 18100), (374, 18103), (401, 18214), (403, 18226), (404, 18232), (410, 18247), (411, 18250), (419, 18271), (428, 18301), (432, 18313), (440, 18346), (462, 18457), (463, 18460), (469, 18487), (471, 18493), (483, 18547), (484, 18550), (495, 18577), (514, 18652), (516, 18664), (517, 18667), (528, 18733), (534, 18757), (539, 18787), (547, 18829), (552, 18847), (553, 18850), (562, 18886), (565, 18904), (574, 18925), (579, 18952), (595, 19021), (598, 19039), (602, 19048), (604, 19060), (610, 19096), (615, 19126), (618, 19135), (620, 19147), (630, 19207), (635, 19261), (647, 19321), (652, 19363), (671, 19441), (681, 19498), (685, 19522), (692, 19576), (696, 19624), (703, 19666), (705, 19690), (706, 19693),

Gene: DmpstrDiver_37 Start: 30383, Stop: 32890, Start Num: 81

Candidate Starts for DmpstrDiver_37:

(67, 30326), (Start: 81 @30383 has 221 MA's), (167, 30578), (178, 30614), (184, 30629), (202, 30677), (229, 30731), (241, 30767), (242, 30773), (243, 30776), (254, 30794), (256, 30806), (260, 30818), (267, 30845), (285, 30950), (292, 30989), (295, 30998), (302, 31022), (303, 31028), (305, 31046), (312, 31064), (319, 31079), (322, 31088), (326, 31097), (335, 31112), (346, 31139), (350, 31148), (363, 31187), (365, 31199), (367, 31208), (391, 31292), (411, 31373), (422, 31403), (423, 31406), (432, 31436), (439, 31463), (441, 31472), (450, 31523), (451, 31532), (453, 31535), (461, 31571), (465, 31592), (474, 31628), (515, 31781), (525, 31835), (534, 31880), (536, 31898), (537, 31901), (545, 31940), (578, 32087), (580, 32096), (596, 32165), (598, 32180), (630, 32345), (639, 32432), (649, 32480), (661, 32531), (677, 32609), (707, 32831), (709, 32834), (712, 32861),

Gene: DoRead_18 Start: 17366, Stop: 19891, Start Num: 81

Candidate Starts for DoRead_18:

(Start: 81 @17366 has 221 MA's), (92, 17387), (128, 17456), (154, 17516), (159, 17525), (160, 17528), (167, 17546), (184, 17594), (202, 17642), (240, 17753), (241, 17756), (247, 17777), (253, 17789), (256, 17801), (273, 17879), (282, 17945), (288, 17978), (299, 18032), (302, 18044), (316, 18092),

(318, 18098), (319, 18101), (322, 18110), (341, 18143), (355, 18182), (357, 18185), (361, 18200), (370, 18230), (372, 18236), (373, 18239), (374, 18242), (380, 18269), (383, 18287), (385, 18290), (399, 18341), (400, 18344), (403, 18365), (404, 18371), (406, 18374), (410, 18386), (411, 18389), (421, 18416), (428, 18440), (432, 18452), (450, 18539), (463, 18602), (465, 18611), (470, 18635), (501, 18740), (502, 18743), (514, 18794), (515, 18800), (516, 18806), (517, 18809), (525, 18854), (527, 18869), (533, 18896), (537, 18920), (539, 18929), (552, 18989), (553, 18992), (554, 19004), (565, 19046), (571, 19058), (580, 19100), (611, 19244), (624, 19307), (632, 19382), (673, 19583), (702, 19793), (708, 19832), (709, 19835),

Gene: DocMcStuffins_19 Start: 17271, Stop: 19796, Start Num: 81

Candidate Starts for DocMcStuffins_19:

(Start: 81 @17271 has 221 MA's), (92, 17292), (Start: 104 @17313 has 1 MA's), (121, 17352), (154, 17421), (159, 17430), (160, 17433), (167, 17451), (178, 17484), (184, 17499), (202, 17547), (240, 17658), (241, 17661), (256, 17706), (273, 17784), (277, 17808), (287, 17874), (288, 17883), (302, 17949), (303, 17955), (305, 17973), (316, 17997), (318, 18003), (319, 18006), (335, 18039), (338, 18045), (350, 18075), (357, 18096), (367, 18135), (373, 18150), (375, 18156), (411, 18300), (428, 18351), (452, 18462), (463, 18513), (468, 18537), (495, 18630), (507, 18675), (510, 18684), (514, 18705), (516, 18717), (517, 18720), (525, 18765), (534, 18810), (536, 18828), (537, 18831), (547, 18882), (560, 18933), (562, 18939), (565, 18957), (571, 18969), (574, 18978), (580, 19011), (598, 19092), (612, 19161), (618, 19188), (623, 19215), (631, 19266), (635, 19314), (684, 19557), (696, 19662), (700, 19683), (708, 19737), (711, 19761),

Gene: DoctorDiddles_26 Start: 21446, Stop: 23842, Start Num: 126

Candidate Starts for DoctorDiddles_26:

(Start: 126 @21446 has 125 MA's), (195, 21623), (206, 21644), (264, 21791), (294, 21965), (302, 21998), (309, 22034), (350, 22127), (367, 22187), (374, 22205), (406, 22337), (422, 22382), (453, 22514), (462, 22559), (478, 22619), (510, 22733), (514, 22754), (522, 22793), (525, 22814), (527, 22829), (560, 22979), (562, 22985), (565, 23003), (580, 23057), (598, 23141), (618, 23234), (661, 23480), (696, 23696), (706, 23780), (712, 23813),

Gene: Dole_27 Start: 20895, Stop: 23327, Start Num: 134

Candidate Starts for Dole_27:

(Start: 134 @20895 has 92 MA's), (154, 20943), (174, 20994), (263, 21255), (267, 21276), (305, 21483), (318, 21516), (323, 21546), (347, 21618), (352, 21642), (365, 21687), (401, 21840), (416, 21897), (420, 21906), (430, 21942), (433, 21957), (467, 22137), (472, 22152), (487, 22221), (492, 22233), (508, 22296), (517, 22338), (525, 22377), (526, 22383), (527, 22392), (532, 22413), (544, 22473), (554, 22521), (569, 22578), (574, 22590), (581, 22632), (601, 22704), (603, 22713), (619, 22806), (623, 22827), (635, 22923), (646, 22977), (665, 23070), (679, 23151), (696, 23298),

Gene: Donkeykong_18 Start: 17574, Stop: 20111, Start Num: 81

Candidate Starts for Donkeykong_18:

(76, 17562), (Start: 81 @17574 has 221 MA's), (92, 17595), (Start: 104 @17616 has 1 MA's), (121, 17655), (154, 17724), (159, 17733), (160, 17736), (167, 17754), (178, 17787), (184, 17802), (202, 17850), (240, 17961), (241, 17964), (252, 17994), (255, 18006), (256, 18009), (273, 18087), (277, 18111), (287, 18177), (295, 18222), (302, 18252), (303, 18258), (305, 18276), (316, 18300), (319, 18309), (335, 18342), (338, 18348), (350, 18378), (363, 18417), (365, 18429), (367, 18438), (373, 18453), (374, 18456), (401, 18567), (402, 18570), (403, 18579), (404, 18585), (410, 18600), (411, 18603), (419, 18624), (428, 18654), (432, 18666), (440, 18699), (453, 18765), (462, 18810), (463, 18813), (469, 18840), (471, 18846), (483, 18900), (484, 18903), (514, 19005), (516, 19017), (517, 19020), (528, 19086), (534, 19110), (537, 19131), (539, 19140), (552, 19200), (553, 19203), (562, 19239), (565, 19257), (571, 19269), (574, 19278), (579, 19305), (595, 19374), (598, 19392), (602, 19401), (604, 19413), (610, 19449), (615, 19479), (620, 19500), (626, 19524), (630, 19560), (635, 19614), (647, 19674), (652, 19716), (671, 19794), (681, 19851), (685, 19875), (692, 19929), (696,

19977), (703, 20019), (705, 20043), (706, 20046),

Gene: Doomphist_18 Start: 17534, Stop: 20071, Start Num: 81

Candidate Starts for Doomphist_18:

(Start: 81 @17534 has 221 MA's), (92, 17555), (Start: 104 @17576 has 1 MA's), (121, 17615), (154, 17684), (159, 17693), (160, 17696), (167, 17714), (184, 17762), (240, 17921), (241, 17924), (256, 17969), (273, 18047), (277, 18071), (287, 18137), (302, 18212), (303, 18218), (305, 18236), (316, 18260), (318, 18266), (319, 18269), (335, 18302), (338, 18308), (350, 18338), (357, 18359), (365, 18389), (367, 18398), (397, 18506), (400, 18518), (401, 18527), (402, 18530), (404, 18545), (410, 18560), (411, 18563), (419, 18584), (432, 18626), (440, 18659), (462, 18770), (463, 18773), (469, 18800), (471, 18806), (483, 18860), (484, 18863), (495, 18890), (514, 18965), (516, 18977), (517, 18980), (528, 19046), (533, 19067), (534, 19070), (537, 19091), (539, 19100), (552, 19160), (553, 19163), (562, 19199), (565, 19217), (571, 19229), (574, 19238), (579, 19265), (594, 19322), (595, 19334), (598, 19352), (602, 19361), (604, 19373), (610, 19409), (615, 19439), (618, 19448), (620, 19460), (630, 19520), (635, 19574), (647, 19634), (652, 19676), (681, 19811), (685, 19835), (692, 19889), (696, 19937), (703, 19979), (705, 20003), (706, 20006),

Gene: Dorothy_18 Start: 17358, Stop: 19895, Start Num: 81

Candidate Starts for Dorothy_18:

(76, 17346), (Start: 81 @17358 has 221 MA's), (92, 17379), (Start: 104 @17400 has 1 MA's), (121, 17439), (154, 17508), (159, 17517), (160, 17520), (167, 17538), (184, 17586), (202, 17634), (240, 17745), (241, 17748), (256, 17793), (273, 17871), (277, 17895), (287, 17961), (295, 18006), (302, 18036), (303, 18042), (305, 18060), (316, 18084), (319, 18093), (335, 18126), (338, 18132), (350, 18162), (363, 18201), (365, 18213), (367, 18222), (373, 18237), (374, 18240), (401, 18351), (402, 18354), (403, 18363), (404, 18369), (410, 18384), (411, 18387), (419, 18408), (428, 18438), (432, 18450), (440, 18483), (462, 18594), (463, 18597), (469, 18624), (471, 18630), (483, 18684), (484, 18687), (514, 18789), (516, 18801), (517, 18804), (528, 18870), (534, 18894), (537, 18915), (539, 18924), (552, 18984), (553, 18987), (562, 19023), (565, 19041), (574, 19062), (579, 19089), (595, 19158), (598, 19176), (602, 19185), (604, 19197), (610, 19233), (620, 19284), (624, 19302), (630, 19344), (635, 19398), (652, 19500), (681, 19635), (685, 19659), (692, 19713), (700, 19782), (705, 19827), (706, 19830),

Gene: DosHalletts_19 Start: 17327, Stop: 19879, Start Num: 81

Candidate Starts for DosHalletts_19:

(Start: 81 @17327 has 221 MA's), (128, 17417), (154, 17477), (159, 17486), (160, 17489), (167, 17507), (184, 17555), (201, 17600), (240, 17714), (241, 17717), (244, 17729), (253, 17750), (255, 17759), (256, 17762), (273, 17840), (282, 17906), (288, 17939), (295, 17975), (301, 17999), (318, 18059), (319, 18062), (326, 18080), (355, 18143), (357, 18146), (363, 18164), (367, 18185), (374, 18203), (380, 18230), (385, 18251), (396, 18284), (403, 18326), (404, 18332), (406, 18335), (411, 18350), (421, 18377), (422, 18380), (428, 18401), (432, 18413), (440, 18446), (460, 18539), (483, 18647), (489, 18671), (495, 18677), (500, 18695), (501, 18698), (507, 18722), (514, 18752), (519, 18776), (525, 18812), (526, 18818), (527, 18827), (533, 18854), (543, 18917), (547, 18941), (548, 18956), (560, 18998), (575, 19049), (596, 19145), (598, 19160), (602, 19169), (607, 19193), (618, 19256), (626, 19292), (678, 19598), (685, 19643), (696, 19745),

Gene: DotProduct_18 Start: 17408, Stop: 19939, Start Num: 81

Candidate Starts for DotProduct_18:

(76, 17396), (Start: 81 @17408 has 221 MA's), (92, 17429), (Start: 104 @17450 has 1 MA's), (121, 17489), (154, 17558), (159, 17567), (160, 17570), (167, 17588), (178, 17621), (184, 17636), (202, 17678), (240, 17789), (241, 17792), (254, 17825), (255, 17834), (256, 17837), (273, 17915), (287, 18005), (295, 18050), (302, 18080), (303, 18086), (305, 18104), (316, 18128), (319, 18137), (335, 18170), (338, 18176), (350, 18206), (365, 18257), (367, 18266), (373, 18281), (374, 18284), (401, 18395), (402, 18398), (403, 18407), (404, 18413), (410, 18428), (411, 18431), (419, 18452), (428,

18482), (432, 18494), (440, 18527), (462, 18638), (463, 18641), (471, 18674), (483, 18728), (484, 18731), (514, 18833), (516, 18845), (517, 18848), (528, 18914), (534, 18938), (537, 18959), (539, 18968), (552, 19028), (553, 19031), (562, 19067), (565, 19085), (571, 19097), (574, 19106), (579, 19133), (595, 19202), (598, 19220), (602, 19229), (604, 19241), (610, 19277), (615, 19307), (620, 19328), (626, 19352), (630, 19388), (635, 19442), (647, 19502), (652, 19544), (671, 19622), (681, 19679), (685, 19703), (692, 19757), (696, 19805), (703, 19847), (705, 19871), (706, 19874),

Gene: Doug_19 Start: 17950, Stop: 20487, Start Num: 81

Candidate Starts for Doug_19:

(76, 17938), (Start: 81 @17950 has 221 MA's), (92, 17971), (Start: 104 @17992 has 1 MA's), (121, 18031), (154, 18100), (159, 18109), (160, 18112), (167, 18130), (178, 18163), (184, 18178), (202, 18226), (238, 18331), (240, 18337), (241, 18340), (255, 18382), (256, 18385), (273, 18463), (287, 18553), (295, 18598), (302, 18628), (303, 18634), (305, 18652), (316, 18676), (319, 18685), (335, 18718), (338, 18724), (350, 18754), (363, 18793), (365, 18805), (367, 18814), (373, 18829), (374, 18832), (401, 18943), (402, 18946), (403, 18955), (404, 18961), (410, 18976), (411, 18979), (419, 19000), (428, 19030), (432, 19042), (440, 19075), (453, 19141), (462, 19186), (463, 19189), (469, 19216), (471, 19222), (483, 19276), (484, 19279), (511, 19366), (514, 19381), (516, 19393), (517, 19396), (528, 19462), (534, 19486), (537, 19507), (539, 19516), (552, 19576), (553, 19579), (562, 19615), (565, 19633), (571, 19645), (574, 19654), (579, 19681), (595, 19750), (598, 19768), (602, 19777), (604, 19789), (610, 19825), (615, 19855), (620, 19876), (626, 19900), (630, 19936), (635, 19990), (647, 20050), (652, 20092), (671, 20170), (681, 20227), (685, 20251), (692, 20305), (696, 20353), (705, 20419), (706, 20422),

Gene: DrDrey_27 Start: 22776, Stop: 25172, Start Num: 126

Candidate Starts for DrDrey_27:

(Start: 126 @22776 has 125 MA's), (195, 22953), (206, 22974), (264, 23121), (294, 23295), (302, 23328), (309, 23364), (350, 23457), (367, 23517), (374, 23535), (406, 23667), (422, 23712), (453, 23844), (462, 23889), (478, 23949), (510, 24063), (514, 24084), (522, 24123), (525, 24144), (527, 24159), (560, 24309), (562, 24315), (565, 24333), (580, 24387), (598, 24471), (618, 24564), (661, 24810), (696, 25026), (706, 25110), (712, 25143),

Gene: DrHayes_27 Start: 20840, Stop: 23272, Start Num: 134

Candidate Starts for DrHayes_27:

(127, 20822), (Start: 134 @20840 has 92 MA's), (154, 20888), (174, 20939), (263, 21200), (267, 21221), (317, 21458), (318, 21461), (323, 21491), (324, 21494), (347, 21563), (352, 21587), (353, 21593), (357, 21599), (365, 21632), (401, 21785), (416, 21842), (420, 21851), (433, 21902), (467, 22082), (472, 22097), (487, 22166), (492, 22178), (501, 22214), (508, 22241), (517, 22283), (525, 22322), (526, 22328), (527, 22337), (532, 22358), (544, 22418), (552, 22451), (555, 22469), (574, 22535), (581, 22577), (601, 22649), (603, 22658), (608, 22679), (619, 22751), (635, 22868), (665, 23015), (679, 23096), (689, 23171), (696, 23243),

Gene: DrLupo_38 Start: 27172, Stop: 30258, Start Num: 14

Candidate Starts for DrLupo_38:

(10, 27145), (Start: 14 @27172 has 2 MA's), (15, 27175), (24, 27325), (25, 27328), (29, 27403), (30, 27412), (31, 27415), (42, 27484), (47, 27520), (57, 27595), (70, 27682), (79, 27718), (80, 27727), (91, 27748), (114, 27817), (120, 27841), (136, 27883), (137, 27886), (151, 27916), (171, 27958), (182, 28009), (210, 28090), (214, 28102), (235, 28162), (242, 28183), (256, 28222), (274, 28303), (280, 28336), (304, 28468), (320, 28507), (327, 28531), (337, 28546), (365, 28648), (368, 28660), (372, 28672), (373, 28675), (422, 28852), (432, 28885), (438, 28909), (448, 28966), (488, 29152), (506, 29218), (517, 29266), (526, 29317), (529, 29341), (531, 29347), (547, 29419), (552, 29443), (554, 29458), (573, 29527), (661, 29998), (673, 30052), (693, 30196),

Gene: Drago_19 Start: 17219, Stop: 19756, Start Num: 81

Candidate Starts for Drago_19:

(76, 17207), (Start: 81 @17219 has 221 MA's), (92, 17240), (Start: 104 @17261 has 1 MA's), (121, 17300), (154, 17369), (159, 17378), (160, 17381), (167, 17399), (178, 17432), (184, 17447), (202, 17495), (238, 17600), (241, 17609), (255, 17651), (256, 17654), (273, 17732), (277, 17756), (287, 17822), (295, 17867), (302, 17897), (303, 17903), (305, 17921), (316, 17945), (319, 17954), (335, 17987), (338, 17993), (350, 18023), (363, 18062), (365, 18074), (367, 18083), (373, 18098), (374, 18101), (401, 18212), (403, 18224), (404, 18230), (410, 18245), (411, 18248), (419, 18269), (428, 18299), (432, 18311), (440, 18344), (453, 18410), (462, 18455), (463, 18458), (469, 18485), (471, 18491), (483, 18545), (484, 18548), (495, 18575), (514, 18650), (516, 18662), (517, 18665), (528, 18731), (534, 18755), (539, 18785), (547, 18827), (552, 18845), (553, 18848), (562, 18884), (565, 18902), (574, 18923), (579, 18950), (595, 19019), (598, 19037), (602, 19046), (604, 19058), (610, 19094), (615, 19124), (618, 19133), (620, 19145), (630, 19205), (635, 19259), (647, 19319), (652, 19361), (671, 19439), (681, 19496), (685, 19520), (692, 19574), (696, 19622), (703, 19664), (705, 19688), (706, 19691),

Gene: Duke13_36 Start: 29781, Stop: 32336, Start Num: 81

Candidate Starts for Duke13_36:

(66, 29724), (Start: 81 @29781 has 221 MA's), (167, 29976), (178, 30012), (184, 30027), (202, 30075), (240, 30186), (241, 30189), (256, 30234), (273, 30312), (277, 30336), (287, 30402), (295, 30447), (302, 30477), (303, 30483), (305, 30501), (316, 30525), (319, 30534), (335, 30567), (338, 30573), (350, 30603), (363, 30642), (365, 30654), (367, 30663), (373, 30678), (374, 30681), (401, 30792), (402, 30795), (403, 30804), (404, 30810), (410, 30825), (411, 30828), (419, 30849), (428, 30879), (432, 30891), (440, 30924), (462, 31035), (463, 31038), (469, 31065), (471, 31071), (483, 31125), (484, 31128), (514, 31230), (516, 31242), (517, 31245), (528, 31311), (534, 31335), (537, 31356), (539, 31365), (552, 31425), (553, 31428), (562, 31464), (565, 31482), (574, 31503), (579, 31530), (595, 31599), (598, 31617), (602, 31626), (604, 31638), (610, 31674), (620, 31725), (624, 31743), (630, 31785), (635, 31839), (652, 31941), (681, 32076), (685, 32100), (692, 32154), (700, 32223), (705, 32268), (706, 32271),

Gene: Dumbo_26 Start: 21751, Stop: 24147, Start Num: 126

Candidate Starts for Dumbo_26:

(Start: 126 @21751 has 125 MA's), (195, 21928), (206, 21949), (264, 22096), (294, 22270), (302, 22303), (309, 22339), (350, 22432), (367, 22492), (374, 22510), (406, 22642), (422, 22687), (453, 22819), (462, 22864), (478, 22924), (510, 23038), (514, 23059), (522, 23098), (525, 23119), (527, 23134), (560, 23284), (562, 23290), (565, 23308), (580, 23362), (598, 23446), (618, 23539), (661, 23785), (696, 24001), (706, 24085), (712, 24118),

Gene: Durfee_27 Start: 20912, Stop: 23344, Start Num: 134

Candidate Starts for Durfee_27:

(Start: 134 @20912 has 92 MA's), (174, 21011), (263, 21272), (267, 21293), (305, 21500), (318, 21533), (323, 21563), (347, 21635), (352, 21659), (401, 21857), (412, 21902), (416, 21914), (420, 21923), (433, 21974), (467, 22154), (472, 22169), (487, 22238), (492, 22250), (508, 22313), (517, 22355), (525, 22394), (526, 22400), (527, 22409), (532, 22430), (544, 22490), (574, 22607), (581, 22649), (601, 22721), (603, 22730), (608, 22751), (619, 22823), (623, 22844), (635, 22940), (665, 23087), (679, 23168), (696, 23315),

Gene: Dusk_25 Start: 21943, Stop: 24339, Start Num: 126

Candidate Starts for Dusk_25:

(Start: 126 @21943 has 125 MA's), (195, 22120), (206, 22141), (264, 22288), (288, 22429), (294, 22462), (302, 22495), (309, 22531), (350, 22624), (367, 22684), (374, 22702), (396, 22783), (453, 23011), (462, 23056), (514, 23251), (515, 23257), (517, 23266), (525, 23311), (527, 23326), (562, 23482), (565, 23500), (568, 23509), (581, 23563), (598, 23638), (599, 23641), (634, 23851), (636, 23863), (661, 23977), (696, 24193), (706, 24277), (710, 24301), (712, 24310),

Gene: Dylan_58 Start: 36190, Stop: 38700, Start Num: 96

Candidate Starts for Dylan_58:

(Start: 96 @36190 has 28 MA's), (108, 36223), (136, 36292), (137, 36295), (147, 36319), (160, 36343), (170, 36367), (178, 36400), (245, 36607), (248, 36619), (249, 36622), (281, 36769), (282, 36799), (287, 36823), (295, 36853), (296, 36856), (302, 36883), (305, 36907), (318, 36937), (344, 36994), (363, 37054), (365, 37066), (373, 37090), (374, 37093), (382, 37135), (410, 37231), (411, 37234), (475, 37489), (514, 37633), (525, 37693), (536, 37765), (537, 37768), (558, 37864), (598, 38038), (604, 38059), (622, 38152), (625, 38164), (635, 38254), (650, 38329), (670, 38374), (699, 38575), (704, 38629), (709, 38644),

Gene: Easy2Say_28 Start: 23534, Stop: 25930, Start Num: 126

Candidate Starts for Easy2Say_28:

(Start: 126 @23534 has 125 MA's), (195, 23711), (206, 23732), (264, 23879), (288, 24020), (294, 24053), (302, 24086), (309, 24122), (350, 24215), (367, 24275), (374, 24293), (406, 24425), (422, 24470), (453, 24602), (462, 24647), (478, 24707), (510, 24821), (514, 24842), (522, 24881), (525, 24902), (527, 24917), (560, 25067), (562, 25073), (565, 25091), (580, 25145), (598, 25229), (618, 25322), (661, 25568), (696, 25784), (706, 25868), (712, 25901),

Gene: Efra2_27 Start: 20082, Stop: 22514, Start Num: 134

Candidate Starts for Efra2_27:

(Start: 134 @20082 has 92 MA's), (154, 20130), (156, 20133), (159, 20142), (263, 20442), (267, 20463), (318, 20703), (347, 20805), (352, 20829), (353, 20835), (365, 20874), (401, 21027), (416, 21084), (420, 21093), (433, 21144), (469, 21330), (472, 21339), (473, 21345), (483, 21390), (487, 21408), (508, 21483), (517, 21525), (525, 21564), (526, 21570), (527, 21579), (532, 21600), (541, 21648), (552, 21693), (554, 21708), (574, 21777), (581, 21819), (603, 21900), (619, 21993), (623, 22014), (635, 22110), (679, 22338), (686, 22392), (689, 22413), (696, 22485), (698, 22503),

Gene: Eish_18 Start: 17540, Stop: 20077, Start Num: 81

Candidate Starts for Eish_18:

(Start: 81 @17540 has 221 MA's), (92, 17561), (Start: 104 @17582 has 1 MA's), (121, 17621), (154, 17690), (159, 17699), (160, 17702), (167, 17720), (178, 17753), (184, 17768), (202, 17816), (238, 17921), (241, 17930), (256, 17975), (273, 18053), (277, 18077), (287, 18143), (302, 18218), (303, 18224), (305, 18242), (316, 18266), (318, 18272), (319, 18275), (335, 18308), (338, 18314), (350, 18344), (357, 18365), (365, 18395), (367, 18404), (397, 18512), (400, 18524), (401, 18533), (402, 18536), (403, 18545), (404, 18551), (410, 18566), (411, 18569), (419, 18590), (428, 18620), (432, 18632), (440, 18665), (441, 18668), (453, 18731), (469, 18806), (471, 18812), (483, 18866), (484, 18869), (495, 18896), (514, 18971), (516, 18983), (517, 18986), (528, 19052), (537, 19097), (539, 19106), (552, 19166), (553, 19169), (562, 19205), (565, 19223), (574, 19244), (595, 19340), (598, 19358), (602, 19367), (604, 19379), (610, 19415), (615, 19445), (630, 19526), (635, 19580), (652, 19682), (681, 19817), (685, 19841), (692, 19895), (696, 19943), (703, 19985), (705, 20009), (706, 20012),

Gene: EleanorGeorge_18 Start: 17568, Stop: 20105, Start Num: 81

Candidate Starts for EleanorGeorge_18:

(76, 17556), (Start: 81 @17568 has 221 MA's), (92, 17589), (Start: 104 @17610 has 1 MA's), (121, 17649), (154, 17718), (159, 17727), (160, 17730), (167, 17748), (178, 17781), (184, 17796), (202, 17844), (240, 17955), (241, 17958), (252, 17988), (255, 18000), (256, 18003), (273, 18081), (277, 18105), (287, 18171), (295, 18216), (302, 18246), (303, 18252), (305, 18270), (316, 18294), (319, 18303), (335, 18336), (338, 18342), (350, 18372), (363, 18411), (365, 18423), (367, 18432), (373, 18447), (374, 18450), (401, 18561), (402, 18564), (403, 18573), (404, 18579), (410, 18594), (411, 18597), (419, 18618), (428, 18648), (432, 18660), (440, 18693), (462, 18804), (463, 18807), (469, 18834), (471, 18840), (483, 18894), (484, 18897), (511, 18984), (514, 18999), (516, 19011), (517,

19014), (528, 19080), (534, 19104), (537, 19125), (539, 19134), (552, 19194), (553, 19197), (562, 19233), (565, 19251), (571, 19263), (574, 19272), (579, 19299), (595, 19368), (598, 19386), (602, 19395), (604, 19407), (610, 19443), (615, 19473), (620, 19494), (626, 19518), (630, 19554), (635, 19608), (647, 19668), (652, 19710), (671, 19788), (681, 19845), (685, 19869), (692, 19923), (696, 19971), (703, 20013), (705, 20037), (706, 20040),

Gene: Elite2014_25 Start: 21491, Stop: 23887, Start Num: 126

Candidate Starts for Elite2014_25:

(Start: 126 @21491 has 125 MA's), (195, 21668), (206, 21689), (264, 21836), (294, 22010), (302, 22043), (309, 22079), (350, 22172), (367, 22232), (374, 22250), (406, 22382), (422, 22427), (453, 22559), (462, 22604), (478, 22664), (510, 22778), (514, 22799), (522, 22838), (525, 22859), (527, 22874), (560, 23024), (562, 23030), (565, 23048), (580, 23102), (598, 23186), (618, 23279), (661, 23525), (696, 23741), (706, 23825), (712, 23858),

Gene: Elph10_27 Start: 21754, Stop: 24150, Start Num: 126

Candidate Starts for Elph10_27:

(Start: 126 @21754 has 125 MA's), (195, 21931), (206, 21952), (264, 22099), (294, 22273), (302, 22306), (309, 22342), (350, 22435), (367, 22495), (374, 22513), (406, 22645), (422, 22690), (453, 22822), (462, 22867), (478, 22927), (510, 23041), (514, 23062), (522, 23101), (525, 23122), (527, 23137), (560, 23287), (562, 23293), (565, 23311), (580, 23365), (598, 23449), (618, 23542), (661, 23788), (696, 24004), (706, 24088), (712, 24121),

Gene: Emerson_27 Start: 20872, Stop: 23304, Start Num: 134

Candidate Starts for Emerson_27:

(Start: 134 @20872 has 92 MA's), (174, 20971), (263, 21232), (267, 21253), (305, 21460), (318, 21493), (323, 21523), (347, 21595), (352, 21619), (365, 21664), (401, 21817), (412, 21862), (416, 21874), (420, 21883), (433, 21934), (467, 22114), (472, 22129), (487, 22198), (492, 22210), (508, 22273), (517, 22315), (525, 22354), (526, 22360), (527, 22369), (532, 22390), (544, 22450), (574, 22567), (581, 22609), (601, 22681), (603, 22690), (608, 22711), (619, 22783), (623, 22804), (635, 22900), (647, 22963), (679, 23128), (696, 23275),

Gene: EmiMonkey_18 Start: 17352, Stop: 19889, Start Num: 81

Candidate Starts for EmiMonkey_18:

(Start: 81 @17352 has 221 MA's), (92, 17373), (Start: 104 @17394 has 1 MA's), (121, 17433), (154, 17502), (159, 17511), (160, 17514), (167, 17532), (184, 17580), (238, 17733), (241, 17742), (256, 17787), (276, 17886), (277, 17889), (287, 17955), (302, 18030), (303, 18036), (305, 18054), (316, 18078), (318, 18084), (319, 18087), (335, 18120), (338, 18126), (350, 18156), (357, 18177), (365, 18207), (367, 18216), (373, 18231), (374, 18234), (401, 18345), (402, 18348), (403, 18357), (404, 18363), (410, 18378), (411, 18381), (419, 18402), (428, 18432), (432, 18444), (440, 18477), (462, 18588), (463, 18591), (469, 18618), (471, 18624), (483, 18678), (484, 18681), (514, 18783), (516, 18795), (517, 18798), (528, 18864), (534, 18888), (537, 18909), (539, 18918), (552, 18978), (553, 18981), (562, 19017), (565, 19035), (571, 19047), (574, 19056), (579, 19083), (594, 19140), (595, 19152), (598, 19170), (602, 19179), (604, 19191), (610, 19227), (615, 19257), (618, 19266), (620, 19278), (630, 19338), (635, 19392), (647, 19452), (652, 19494), (681, 19629), (685, 19653), (692, 19707), (696, 19755), (703, 19797), (705, 19821), (706, 19824),

Gene: Emma_18 Start: 17448, Stop: 19985, Start Num: 81

Candidate Starts for Emma_18:

(76, 17436), (Start: 81 @17448 has 221 MA's), (92, 17469), (Start: 104 @17490 has 1 MA's), (121, 17529), (154, 17598), (159, 17607), (160, 17610), (167, 17628), (178, 17661), (184, 17676), (202, 17724), (240, 17835), (241, 17838), (252, 17868), (256, 17883), (273, 17961), (277, 17985), (287, 18051), (295, 18096), (302, 18126), (303, 18132), (305, 18150), (316, 18174), (319, 18183), (335, 18216), (338, 18222), (350, 18252), (363, 18291), (365, 18303), (367, 18312), (373, 18327), (374,

18330), (401, 18441), (402, 18444), (403, 18453), (404, 18459), (410, 18474), (411, 18477), (419, 18498), (428, 18528), (432, 18540), (440, 18573), (453, 18639), (462, 18684), (463, 18687), (469, 18714), (471, 18720), (483, 18774), (484, 18777), (511, 18864), (514, 18879), (516, 18891), (517, 18894), (528, 18960), (534, 18984), (537, 19005), (539, 19014), (547, 19056), (552, 19074), (553, 19077), (562, 19113), (565, 19131), (571, 19143), (574, 19152), (579, 19179), (595, 19248), (598, 19266), (602, 19275), (604, 19287), (610, 19323), (615, 19353), (620, 19374), (626, 19398), (630, 19434), (635, 19488), (647, 19548), (652, 19590), (681, 19725), (685, 19749), (692, 19803), (696, 19851), (703, 19893), (705, 19917), (706, 19920),

Gene: Emmaloid_20 Start: 17189, Stop: 19726, Start Num: 81

Candidate Starts for Emmaloid_20:

(Start: 81 @17189 has 221 MA's), (92, 17210), (Start: 104 @17231 has 1 MA's), (121, 17270), (154, 17339), (159, 17348), (160, 17351), (167, 17369), (184, 17417), (238, 17570), (241, 17579), (256, 17624), (276, 17723), (277, 17726), (287, 17792), (302, 17867), (303, 17873), (305, 17891), (316, 17915), (318, 17921), (319, 17924), (335, 17957), (338, 17963), (350, 17993), (357, 18014), (365, 18044), (367, 18053), (373, 18068), (374, 18071), (401, 18182), (402, 18185), (403, 18194), (404, 18200), (410, 18215), (411, 18218), (419, 18239), (428, 18269), (432, 18281), (440, 18314), (462, 18425), (463, 18428), (469, 18455), (471, 18461), (483, 18515), (484, 18518), (514, 18620), (516, 18632), (517, 18635), (528, 18701), (534, 18725), (537, 18746), (539, 18755), (552, 18815), (553, 18818), (562, 18854), (565, 18872), (571, 18884), (574, 18893), (579, 18920), (594, 18977), (595, 18989), (598, 19007), (602, 19016), (604, 19028), (610, 19064), (615, 19094), (618, 19103), (620, 19115), (630, 19175), (635, 19229), (647, 19289), (652, 19331), (681, 19466), (685, 19490), (692, 19544), (696, 19592), (703, 19634), (705, 19658), (706, 19661),

Gene: Emmina_27 Start: 22115, Stop: 24511, Start Num: 126

Candidate Starts for Emmina_27:

(Start: 126 @22115 has 125 MA's), (195, 22292), (206, 22313), (264, 22460), (294, 22634), (302, 22667), (309, 22703), (350, 22796), (367, 22856), (374, 22874), (406, 23006), (422, 23051), (453, 23183), (462, 23228), (478, 23288), (510, 23402), (514, 23423), (522, 23462), (525, 23483), (527, 23498), (560, 23648), (562, 23654), (565, 23672), (580, 23726), (598, 23810), (618, 23903), (661, 24149), (696, 24365), (706, 24449), (712, 24482),

Gene: Empress_19 Start: 18749, Stop: 21286, Start Num: 81

Candidate Starts for Empress_19:

(76, 18737), (Start: 81 @18749 has 221 MA's), (92, 18770), (Start: 104 @18791 has 1 MA's), (121, 18830), (154, 18899), (159, 18908), (160, 18911), (167, 18929), (184, 18977), (202, 19025), (240, 19136), (241, 19139), (256, 19184), (273, 19262), (277, 19286), (287, 19352), (295, 19397), (302, 19427), (303, 19433), (305, 19451), (316, 19475), (319, 19484), (335, 19517), (338, 19523), (350, 19553), (363, 19592), (365, 19604), (367, 19613), (373, 19628), (374, 19631), (401, 19742), (402, 19745), (403, 19754), (404, 19760), (410, 19775), (411, 19778), (419, 19799), (428, 19829), (432, 19841), (440, 19874), (462, 19985), (463, 19988), (469, 20015), (471, 20021), (483, 20075), (484, 20078), (514, 20180), (516, 20192), (517, 20195), (528, 20261), (534, 20285), (537, 20306), (539, 20315), (552, 20375), (553, 20378), (562, 20414), (565, 20432), (574, 20453), (579, 20480), (594, 20537), (595, 20549), (598, 20567), (602, 20576), (604, 20588), (610, 20624), (615, 20654), (618, 20663), (620, 20675), (630, 20735), (635, 20789), (647, 20849), (652, 20891), (681, 21026), (685, 21050), (692, 21104), (696, 21152), (700, 21173), (705, 21218), (706, 21221),

Gene: Enby_19 Start: 17219, Stop: 19756, Start Num: 81

Candidate Starts for Enby_19:

(76, 17207), (Start: 81 @17219 has 221 MA's), (92, 17240), (Start: 104 @17261 has 1 MA's), (121, 17300), (154, 17369), (159, 17378), (160, 17381), (167, 17399), (178, 17432), (184, 17447), (202, 17495), (238, 17600), (241, 17609), (255, 17651), (256, 17654), (273, 17732), (277, 17756), (287, 17822), (295, 17867), (302, 17897), (303, 17903), (305, 17921), (316, 17945), (319, 17954), (335,

17987), (338, 17993), (350, 18023), (363, 18062), (365, 18074), (367, 18083), (373, 18098), (374, 18101), (401, 18212), (403, 18224), (404, 18230), (410, 18245), (411, 18248), (419, 18269), (428, 18299), (432, 18311), (440, 18344), (453, 18410), (462, 18455), (463, 18458), (469, 18485), (471, 18491), (483, 18545), (484, 18548), (495, 18575), (514, 18650), (516, 18662), (517, 18665), (528, 18731), (534, 18755), (539, 18785), (547, 18827), (552, 18845), (553, 18848), (562, 18884), (565, 18902), (574, 18923), (579, 18950), (595, 19019), (598, 19037), (602, 19046), (604, 19058), (610, 19094), (615, 19124), (618, 19133), (620, 19145), (630, 19205), (635, 19259), (647, 19319), (652, 19361), (671, 19439), (681, 19496), (685, 19520), (692, 19574), (696, 19622), (703, 19664), (705, 19688), (706, 19691),

Gene: EniyanLRS_40 Start: 28045, Stop: 30612, Start Num: 83

Candidate Starts for EniyanLRS_40:

(Start: 83 @28045 has 6 MA's), (109, 28114), (164, 28237), (166, 28243), (167, 28246), (177, 28270), (182, 28291), (237, 28447), (239, 28453), (241, 28459), (249, 28489), (250, 28495), (256, 28516), (258, 28525), (271, 28585), (284, 28663), (303, 28762), (310, 28795), (318, 28810), (319, 28813), (338, 28852), (357, 28903), (363, 28921), (367, 28942), (370, 28948), (382, 29002), (401, 29071), (408, 29095), (415, 29116), (422, 29137), (427, 29146), (432, 29167), (440, 29200), (441, 29203), (450, 29254), (453, 29266), (466, 29332), (472, 29350), (479, 29389), (514, 29506), (523, 29551), (533, 29608), (537, 29632), (539, 29641), (542, 29659), (552, 29704), (560, 29737), (567, 29773), (609, 29947), (610, 29965), (611, 29971), (623, 30028), (680, 30352), (682, 30370), (690, 30421), (697, 30484), (705, 30559),

Gene: Eradicator_18 Start: 17363, Stop: 19915, Start Num: 81

Candidate Starts for Eradicator_18:

(Start: 81 @17363 has 221 MA's), (92, 17384), (128, 17453), (154, 17513), (159, 17522), (160, 17525), (178, 17576), (184, 17591), (202, 17639), (240, 17750), (241, 17753), (253, 17786), (255, 17795), (256, 17798), (273, 17876), (282, 17942), (288, 17975), (299, 18029), (302, 18041), (316, 18089), (319, 18098), (322, 18107), (341, 18140), (357, 18182), (361, 18197), (370, 18227), (372, 18233), (373, 18236), (374, 18239), (380, 18266), (385, 18287), (396, 18320), (403, 18362), (404, 18368), (406, 18371), (410, 18383), (411, 18386), (421, 18413), (428, 18437), (432, 18449), (440, 18482), (444, 18503), (460, 18575), (463, 18596), (489, 18707), (500, 18731), (501, 18734), (507, 18758), (514, 18788), (519, 18812), (525, 18848), (526, 18854), (527, 18863), (543, 18953), (547, 18977), (548, 18992), (560, 19034), (562, 19040), (575, 19085), (596, 19181), (598, 19196), (602, 19205), (607, 19229), (618, 19292), (635, 19418), (678, 19634), (685, 19679), (696, 19781), (709, 19859),

Gene: Erk16_30 Start: 24319, Stop: 26589, Start Num: 39

Candidate Starts for Erk16_30:

(Start: 39 @24319 has 22 MA's), (59, 24454), (61, 24463), (102, 24637), (105, 24643), (108, 24655), (167, 24808), (173, 24823), (177, 24838), (277, 25219), (279, 25225), (284, 25270), (301, 25357), (370, 25558), (372, 25564), (382, 25612), (394, 25642), (400, 25666), (449, 25855), (456, 25882), (465, 25930), (482, 26002), (497, 26041), (503, 26062), (506, 26077), (511, 26095), (517, 26125), (536, 26209), (590, 26410), (600, 26452), (627, 26578),

Gene: Estave1_18 Start: 17517, Stop: 20006, Start Num: 81

Candidate Starts for Estave1_18:

(Start: 81 @17517 has 221 MA's), (92, 17538), (Start: 104 @17559 has 1 MA's), (122, 17598), (154, 17667), (159, 17676), (160, 17679), (167, 17697), (178, 17730), (184, 17745), (202, 17793), (229, 17847), (241, 17883), (243, 17892), (254, 17910), (256, 17922), (260, 17934), (266, 17958), (267, 17961), (292, 18105), (295, 18114), (302, 18138), (305, 18162), (316, 18186), (318, 18192), (326, 18213), (338, 18234), (350, 18264), (359, 18294), (365, 18315), (391, 18408), (396, 18423), (397, 18432), (401, 18453), (402, 18456), (428, 18540), (429, 18543), (432, 18552), (439, 18579), (441, 18588), (447, 18627), (451, 18648), (453, 18651), (461, 18687), (465, 18708), (483, 18786), (484, 18789), (504, 18843), (516, 18903), (534, 18996), (537, 19017), (545, 19053), (557, 19107), (560,

19116), (578, 19194), (581, 19212), (589, 19248), (591, 19251), (595, 19269), (596, 19272), (598, 19287), (610, 19344), (612, 19356), (630, 19452), (639, 19539), (649, 19587), (651, 19611), (657, 19638), (661, 19647), (670, 19686), (677, 19725), (681, 19749), (684, 19770), (696, 19866), (700, 19887), (709, 19950), (712, 19977), (713, 19986),

Gene: Eureka_26 Start: 22269, Stop: 24665, Start Num: 126

Candidate Starts for Eureka_26:

(Start: 126 @22269 has 125 MA's), (195, 22446), (206, 22467), (264, 22614), (288, 22755), (294, 22788), (302, 22821), (309, 22857), (350, 22950), (367, 23010), (374, 23028), (396, 23109), (453, 23337), (462, 23382), (514, 23577), (515, 23583), (517, 23592), (525, 23637), (527, 23652), (562, 23808), (565, 23826), (568, 23835), (581, 23889), (598, 23964), (599, 23967), (634, 24177), (636, 24189), (661, 24303), (696, 24519), (706, 24603), (710, 24627), (712, 24636),

Gene: FairyPath_26 Start: 22481, Stop: 24877, Start Num: 126

Candidate Starts for FairyPath_26:

(Start: 126 @22481 has 125 MA's), (195, 22658), (206, 22679), (264, 22826), (288, 22967), (294, 23000), (302, 23033), (309, 23069), (350, 23162), (367, 23222), (374, 23240), (415, 23396), (422, 23417), (450, 23537), (453, 23549), (462, 23594), (514, 23789), (515, 23795), (517, 23804), (525, 23849), (527, 23864), (562, 24020), (565, 24038), (568, 24047), (581, 24101), (598, 24176), (599, 24179), (634, 24389), (636, 24401), (661, 24515), (696, 24731), (706, 24815), (710, 24839), (712, 24848),

Gene: Familton_59 Start: 36102, Stop: 38612, Start Num: 96

Candidate Starts for Familton_59:

(Start: 96 @36102 has 28 MA's), (108, 36135), (136, 36204), (137, 36207), (147, 36231), (160, 36255), (170, 36279), (178, 36312), (245, 36519), (248, 36531), (249, 36534), (281, 36681), (282, 36711), (287, 36735), (295, 36765), (296, 36768), (302, 36795), (305, 36819), (318, 36849), (344, 36906), (351, 36930), (363, 36966), (365, 36978), (373, 37002), (374, 37005), (382, 37047), (410, 37143), (411, 37146), (475, 37401), (514, 37545), (525, 37605), (536, 37677), (537, 37680), (558, 37776), (598, 37950), (604, 37971), (622, 38064), (625, 38076), (635, 38166), (650, 38241), (670, 38286), (699, 38487), (704, 38541), (709, 38556),

Gene: Fancypants_18 Start: 17408, Stop: 19945, Start Num: 81

Candidate Starts for Fancypants_18:

(76, 17396), (Start: 81 @17408 has 221 MA's), (92, 17429), (Start: 104 @17450 has 1 MA's), (121, 17489), (154, 17558), (159, 17567), (160, 17570), (167, 17588), (178, 17621), (184, 17636), (202, 17684), (240, 17795), (241, 17798), (252, 17828), (255, 17840), (256, 17843), (273, 17921), (277, 17945), (287, 18011), (295, 18056), (302, 18086), (303, 18092), (305, 18110), (316, 18134), (319, 18143), (335, 18176), (338, 18182), (350, 18212), (363, 18251), (365, 18263), (367, 18272), (373, 18287), (374, 18290), (401, 18401), (402, 18404), (403, 18413), (404, 18419), (410, 18434), (411, 18437), (419, 18458), (428, 18488), (432, 18500), (440, 18533), (462, 18644), (463, 18647), (469, 18674), (471, 18680), (483, 18734), (484, 18737), (514, 18839), (516, 18851), (517, 18854), (528, 18920), (534, 18944), (537, 18965), (539, 18974), (552, 19034), (553, 19037), (554, 19049), (562, 19073), (565, 19091), (571, 19103), (574, 19112), (579, 19139), (595, 19208), (598, 19226), (602, 19235), (604, 19247), (610, 19283), (615, 19313), (620, 19334), (626, 19358), (630, 19394), (635, 19448), (647, 19508), (652, 19550), (671, 19628), (681, 19685), (685, 19709), (692, 19763), (696, 19811), (703, 19853), (705, 19877), (706, 19880),

Gene: Fastidio_18 Start: 17365, Stop: 19902, Start Num: 81

Candidate Starts for Fastidio_18:

(76, 17353), (Start: 81 @17365 has 221 MA's), (92, 17386), (Start: 104 @17407 has 1 MA's), (121, 17446), (154, 17515), (159, 17524), (160, 17527), (167, 17545), (178, 17578), (184, 17593), (202, 17641), (240, 17752), (241, 17755), (252, 17785), (255, 17797), (256, 17800), (273, 17878), (277,

17902), (287, 17968), (295, 18013), (302, 18043), (303, 18049), (305, 18067), (316, 18091), (319, 18100), (335, 18133), (338, 18139), (350, 18169), (363, 18208), (365, 18220), (367, 18229), (373, 18244), (374, 18247), (401, 18358), (402, 18361), (403, 18370), (404, 18376), (410, 18391), (411, 18394), (419, 18415), (428, 18445), (432, 18457), (440, 18490), (462, 18601), (463, 18604), (469, 18631), (471, 18637), (483, 18691), (484, 18694), (511, 18781), (514, 18796), (516, 18808), (517, 18811), (528, 18877), (533, 18898), (534, 18901), (537, 18922), (547, 18973), (552, 18991), (553, 18994), (562, 19030), (565, 19048), (571, 19060), (574, 19069), (594, 19153), (595, 19165), (598, 19183), (602, 19192), (604, 19204), (610, 19240), (615, 19270), (626, 19315), (630, 19351), (635, 19405), (652, 19507), (671, 19585), (681, 19642), (685, 19666), (692, 19720), (696, 19768), (703, 19810), (705, 19834), (706, 19837),

Gene: Filch_27 Start: 22042, Stop: 24438, Start Num: 126

Candidate Starts for Filch_27:

(Start: 126 @22042 has 125 MA's), (195, 22219), (206, 22240), (264, 22387), (288, 22528), (294, 22561), (302, 22594), (309, 22630), (350, 22723), (367, 22783), (374, 22801), (406, 22933), (422, 22978), (453, 23110), (462, 23155), (478, 23215), (510, 23329), (514, 23350), (522, 23389), (525, 23410), (527, 23425), (560, 23575), (562, 23581), (565, 23599), (580, 23653), (598, 23737), (618, 23830), (661, 24076), (696, 24292), (706, 24376), (712, 24409),

Gene: Filuzino_18 Start: 17390, Stop: 19927, Start Num: 81

Candidate Starts for Filuzino_18:

(76, 17378), (Start: 81 @17390 has 221 MA's), (92, 17411), (Start: 104 @17432 has 1 MA's), (121, 17471), (154, 17540), (159, 17549), (160, 17552), (167, 17570), (178, 17603), (184, 17618), (202, 17666), (240, 17777), (241, 17780), (252, 17810), (256, 17825), (273, 17903), (277, 17927), (287, 17993), (295, 18038), (302, 18068), (303, 18074), (305, 18092), (316, 18116), (319, 18125), (335, 18158), (338, 18164), (350, 18194), (363, 18233), (365, 18245), (367, 18254), (373, 18269), (374, 18272), (401, 18383), (402, 18386), (403, 18395), (404, 18401), (410, 18416), (411, 18419), (419, 18440), (428, 18470), (432, 18482), (440, 18515), (462, 18626), (463, 18629), (469, 18656), (471, 18662), (483, 18716), (484, 18719), (514, 18821), (516, 18833), (517, 18836), (528, 18902), (534, 18926), (537, 18947), (539, 18956), (552, 19016), (553, 19019), (562, 19055), (565, 19073), (571, 19085), (574, 19094), (579, 19121), (595, 19190), (598, 19208), (602, 19217), (604, 19229), (610, 19265), (615, 19295), (620, 19316), (626, 19340), (630, 19376), (635, 19430), (647, 19490), (652, 19532), (671, 19610), (681, 19667), (685, 19691), (692, 19745), (696, 19793), (703, 19835), (705, 19859), (706, 19862),

Gene: FireRed_26 Start: 22312, Stop: 24708, Start Num: 126

Candidate Starts for FireRed_26:

(Start: 126 @22312 has 125 MA's), (195, 22489), (206, 22510), (264, 22657), (288, 22798), (294, 22831), (302, 22864), (309, 22900), (350, 22993), (367, 23053), (374, 23071), (406, 23203), (422, 23248), (453, 23380), (462, 23425), (478, 23485), (510, 23599), (514, 23620), (522, 23659), (525, 23680), (527, 23695), (560, 23845), (562, 23851), (565, 23869), (580, 23923), (598, 24007), (618, 24100), (661, 24346), (696, 24562), (706, 24646), (712, 24679),

Gene: Firecracker_59 Start: 36292, Stop: 38802, Start Num: 96

Candidate Starts for Firecracker_59:

(Start: 96 @36292 has 28 MA's), (108, 36325), (136, 36394), (137, 36397), (147, 36421), (160, 36445), (170, 36469), (178, 36502), (245, 36709), (248, 36721), (249, 36724), (281, 36871), (282, 36901), (287, 36925), (295, 36955), (296, 36958), (302, 36985), (305, 37009), (318, 37039), (344, 37096), (363, 37156), (365, 37168), (373, 37192), (374, 37195), (382, 37237), (410, 37333), (411, 37336), (462, 37540), (475, 37591), (514, 37735), (525, 37795), (536, 37867), (537, 37870), (558, 37966), (598, 38140), (604, 38161), (622, 38254), (625, 38266), (635, 38356), (650, 38431), (670, 38476), (699, 38677), (704, 38731), (709, 38746),

Gene: Firehouse51_19 Start: 17957, Stop: 20494, Start Num: 81

Candidate Starts for Firehouse51_19:

(76, 17945), (Start: 81 @17957 has 221 MA's), (92, 17978), (Start: 104 @17999 has 1 MA's), (121, 18038), (154, 18107), (159, 18116), (160, 18119), (167, 18137), (178, 18170), (184, 18185), (202, 18233), (240, 18344), (241, 18347), (252, 18377), (255, 18389), (256, 18392), (273, 18470), (277, 18494), (287, 18560), (295, 18605), (302, 18635), (303, 18641), (305, 18659), (316, 18683), (319, 18692), (335, 18725), (338, 18731), (350, 18761), (363, 18800), (365, 18812), (367, 18821), (373, 18836), (374, 18839), (401, 18950), (402, 18953), (403, 18962), (404, 18968), (410, 18983), (411, 18986), (419, 19007), (428, 19037), (432, 19049), (440, 19082), (462, 19193), (463, 19196), (469, 19223), (471, 19229), (483, 19283), (484, 19286), (514, 19388), (516, 19400), (517, 19403), (528, 19469), (534, 19493), (537, 19514), (539, 19523), (552, 19583), (553, 19586), (562, 19622), (565, 19640), (571, 19652), (574, 19661), (579, 19688), (595, 19757), (598, 19775), (602, 19784), (604, 19796), (610, 19832), (615, 19862), (620, 19883), (626, 19907), (630, 19943), (635, 19997), (647, 20057), (652, 20099), (671, 20177), (681, 20234), (685, 20258), (692, 20312), (696, 20360), (703, 20402), (705, 20426), (706, 20429),

Gene: FlagStaff_22 Start: 20643, Stop: 23102, Start Num: 90

Candidate Starts for FlagStaff_22:

(Start: 90 @20643 has 8 MA's), (111, 20703), (131, 20751), (204, 20946), (285, 21234), (306, 21336), (318, 21360), (368, 21504), (373, 21519), (395, 21600), (413, 21675), (432, 21732), (438, 21756), (445, 21792), (483, 21978), (488, 21999), (504, 22047), (506, 22062), (520, 22128), (527, 22170), (547, 22263), (550, 22281), (565, 22347), (582, 22428), (605, 22494), (630, 22647), (640, 22737), (652, 22806), (661, 22842), (680, 22935), (693, 23040), (695, 23076),

Gene: Flathead_19 Start: 17265, Stop: 19802, Start Num: 81

Candidate Starts for Flathead_19:

(76, 17253), (Start: 81 @17265 has 221 MA's), (92, 17286), (Start: 104 @17307 has 1 MA's), (121, 17346), (154, 17415), (159, 17424), (160, 17427), (167, 17445), (178, 17478), (184, 17493), (202, 17541), (240, 17652), (241, 17655), (252, 17685), (255, 17697), (256, 17700), (273, 17778), (277, 17802), (287, 17868), (295, 17913), (302, 17943), (303, 17949), (305, 17967), (316, 17991), (319, 18000), (335, 18033), (338, 18039), (350, 18069), (363, 18108), (365, 18120), (367, 18129), (373, 18144), (374, 18147), (401, 18258), (402, 18261), (403, 18270), (404, 18276), (410, 18291), (411, 18294), (419, 18315), (428, 18345), (432, 18357), (440, 18390), (453, 18456), (462, 18501), (463, 18504), (469, 18531), (471, 18537), (483, 18591), (484, 18594), (511, 18681), (514, 18696), (516, 18708), (517, 18711), (528, 18777), (534, 18801), (537, 18822), (539, 18831), (552, 18891), (553, 18894), (562, 18930), (565, 18948), (571, 18960), (574, 18969), (579, 18996), (595, 19065), (598, 19083), (602, 19092), (604, 19104), (610, 19140), (615, 19170), (620, 19191), (626, 19215), (630, 19251), (635, 19305), (647, 19365), (652, 19407), (681, 19542), (685, 19566), (692, 19620), (696, 19668), (703, 19710), (705, 19734), (706, 19737),

Gene: Florinda_18 Start: 17419, Stop: 19956, Start Num: 81

Candidate Starts for Florinda_18:

(Start: 81 @17419 has 221 MA's), (92, 17440), (Start: 104 @17461 has 1 MA's), (121, 17500), (154, 17569), (159, 17578), (160, 17581), (167, 17599), (178, 17632), (184, 17647), (202, 17695), (240, 17806), (241, 17809), (252, 17839), (256, 17854), (273, 17932), (277, 17956), (287, 18022), (295, 18067), (302, 18097), (303, 18103), (305, 18121), (316, 18145), (319, 18154), (335, 18187), (338, 18193), (350, 18223), (363, 18262), (367, 18283), (373, 18298), (374, 18301), (402, 18415), (403, 18424), (404, 18430), (411, 18448), (419, 18469), (428, 18499), (432, 18511), (440, 18544), (462, 18655), (463, 18658), (469, 18685), (471, 18691), (483, 18745), (484, 18748), (511, 18835), (514, 18850), (517, 18865), (534, 18955), (537, 18976), (539, 18985), (552, 19045), (553, 19048), (560, 19078), (565, 19102), (574, 19123), (595, 19219), (598, 19237), (602, 19246), (604, 19258), (610, 19294), (615, 19324), (620, 19345), (626, 19369), (630, 19405), (635, 19459), (647, 19519), (652, 19561), (671, 19639), (681, 19696), (685, 19720), (692, 19774), (696, 19822), (703, 19864), (705,

19888), (706, 19891),

Gene: Flypotenuse_24 Start: 21900, Stop: 24296, Start Num: 126

Candidate Starts for Flypotenuse_24:

(Start: 126 @21900 has 125 MA's), (195, 22077), (206, 22098), (264, 22245), (288, 22386), (294, 22419), (302, 22452), (309, 22488), (350, 22581), (367, 22641), (374, 22659), (406, 22791), (453, 22968), (462, 23013), (510, 23187), (514, 23208), (522, 23247), (525, 23268), (527, 23283), (562, 23439), (565, 23457), (580, 23511), (598, 23595), (654, 23919), (696, 24150), (706, 24234), (712, 24267),

Gene: FoghornLeghorn_25 Start: 21788, Stop: 24184, Start Num: 126

Candidate Starts for FoghornLeghorn_25:

(Start: 126 @21788 has 125 MA's), (195, 21965), (206, 21986), (264, 22133), (288, 22274), (294, 22307), (302, 22340), (309, 22376), (350, 22469), (367, 22529), (374, 22547), (406, 22679), (422, 22724), (453, 22856), (462, 22901), (510, 23075), (514, 23096), (522, 23135), (525, 23156), (527, 23171), (562, 23327), (565, 23345), (580, 23399), (598, 23483), (618, 23576), (661, 23822), (696, 24038), (706, 24122), (712, 24155),

Gene: ForDig_27 Start: 27555, Stop: 30056, Start Num: 94

Candidate Starts for ForDig_27:

(Start: 94 @27555 has 4 MA's), (106, 27576), (118, 27612), (136, 27669), (179, 27789), (185, 27807), (209, 27879), (212, 27885), (233, 27939), (244, 27975), (285, 28158), (292, 28203), (302, 28242), (320, 28296), (342, 28344), (358, 28401), (367, 28437), (373, 28455), (385, 28503), (405, 28587), (418, 28623), (428, 28653), (438, 28689), (442, 28707), (483, 28914), (485, 28926), (488, 28935), (506, 29004), (508, 29010), (509, 29013), (511, 29022), (518, 29055), (525, 29097), (527, 29112), (545, 29193), (547, 29205), (550, 29223), (552, 29229), (554, 29244), (556, 29250), (576, 29331), (605, 29436), (615, 29508), (637, 29667), (693, 29988),

Gene: FoulBall_58 Start: 36096, Stop: 38606, Start Num: 96

Candidate Starts for FoulBall_58:

(Start: 96 @36096 has 28 MA's), (108, 36129), (136, 36198), (137, 36201), (147, 36225), (160, 36249), (170, 36273), (178, 36306), (245, 36513), (248, 36525), (249, 36528), (281, 36675), (282, 36705), (287, 36729), (295, 36759), (296, 36762), (302, 36789), (305, 36813), (318, 36843), (344, 36900), (351, 36924), (363, 36960), (365, 36972), (373, 36996), (374, 36999), (382, 37041), (410, 37137), (411, 37140), (475, 37395), (514, 37539), (525, 37599), (536, 37671), (537, 37674), (558, 37770), (598, 37944), (604, 37965), (622, 38058), (625, 38070), (635, 38160), (650, 38235), (670, 38280), (699, 38481), (704, 38535), (709, 38550),

Gene: Fowlmouth_24 Start: 20553, Stop: 24044, Start Num: 3

Candidate Starts for Fowlmouth_24:

(Start: 3 @20553 has 2 MA's), (9, 20778), (12, 20847), (16, 20880), (27, 21075), (43, 21171), (44, 21174), (45, 21180), (49, 21207), (52, 21225), (192, 21675), (197, 21696), (252, 21879), (254, 21882), (269, 21951), (270, 21957), (285, 22053), (288, 22077), (291, 22101), (308, 22176), (342, 22251), (367, 22338), (378, 22374), (391, 22425), (392, 22428), (404, 22488), (432, 22566), (440, 22599), (446, 22638), (462, 22710), (549, 23100), (559, 23136), (577, 23211), (606, 23334), (683, 23790), (708, 23973),

Gene: Frankie_19 Start: 17503, Stop: 20040, Start Num: 81

Candidate Starts for Frankie_19:

(Start: 81 @17503 has 221 MA's), (92, 17524), (Start: 104 @17545 has 1 MA's), (121, 17584), (154, 17653), (159, 17662), (160, 17665), (167, 17683), (178, 17716), (184, 17731), (202, 17779), (240, 17890), (241, 17893), (252, 17923), (256, 17938), (273, 18016), (277, 18040), (287, 18106), (295, 18151), (302, 18181), (303, 18187), (305, 18205), (316, 18229), (319, 18238), (335, 18271), (338,

18277), (350, 18307), (363, 18346), (367, 18367), (373, 18382), (375, 18388), (411, 18532), (419, 18553), (428, 18583), (432, 18595), (440, 18628), (451, 18691), (453, 18694), (469, 18769), (471, 18775), (483, 18829), (484, 18832), (495, 18859), (498, 18868), (514, 18934), (516, 18946), (517, 18949), (528, 19015), (533, 19036), (534, 19039), (537, 19060), (547, 19111), (552, 19129), (553, 19132), (560, 19162), (565, 19186), (574, 19207), (580, 19240), (595, 19303), (598, 19321), (602, 19330), (604, 19342), (615, 19408), (618, 19417), (620, 19429), (647, 19603), (652, 19645), (671, 19723), (681, 19780), (685, 19804), (692, 19858), (696, 19906), (705, 19972), (706, 19975),

Gene: FreddyB_18 Start: 17407, Stop: 19959, Start Num: 81

Candidate Starts for FreddyB_18:

(Start: 81 @17407 has 221 MA's), (121, 17488), (154, 17557), (159, 17566), (160, 17569), (167, 17587), (184, 17635), (201, 17680), (240, 17794), (241, 17797), (244, 17809), (253, 17830), (255, 17839), (256, 17842), (267, 17890), (273, 17920), (282, 17986), (288, 18019), (295, 18055), (301, 18079), (318, 18139), (319, 18142), (326, 18160), (355, 18223), (357, 18226), (363, 18244), (367, 18265), (374, 18283), (380, 18310), (385, 18331), (396, 18364), (403, 18406), (404, 18412), (406, 18415), (411, 18430), (421, 18457), (428, 18481), (432, 18493), (440, 18526), (460, 18619), (483, 18727), (489, 18751), (500, 18775), (501, 18778), (507, 18802), (514, 18832), (519, 18856), (525, 18892), (526, 18898), (527, 18907), (533, 18934), (543, 18997), (547, 19021), (548, 19036), (560, 19078), (575, 19129), (596, 19225), (598, 19240), (602, 19249), (607, 19273), (618, 19336), (626, 19372), (678, 19678), (685, 19723), (696, 19825),

Gene: Fruitloop_18 Start: 17429, Stop: 19966, Start Num: 81

Candidate Starts for Fruitloop_18:

(76, 17417), (Start: 81 @17429 has 221 MA's), (92, 17450), (Start: 104 @17471 has 1 MA's), (121, 17510), (154, 17579), (159, 17588), (160, 17591), (167, 17609), (178, 17642), (184, 17657), (202, 17705), (240, 17816), (241, 17819), (252, 17849), (255, 17861), (256, 17864), (273, 17942), (277, 17966), (287, 18032), (295, 18077), (302, 18107), (303, 18113), (305, 18131), (316, 18155), (319, 18164), (335, 18197), (338, 18203), (350, 18233), (363, 18272), (365, 18284), (367, 18293), (373, 18308), (374, 18311), (401, 18422), (402, 18425), (403, 18434), (404, 18440), (410, 18455), (411, 18458), (419, 18479), (428, 18509), (432, 18521), (440, 18554), (462, 18665), (463, 18668), (469, 18695), (471, 18701), (483, 18755), (484, 18758), (511, 18845), (514, 18860), (516, 18872), (517, 18875), (528, 18941), (534, 18965), (537, 18986), (539, 18995), (552, 19055), (553, 19058), (562, 19094), (565, 19112), (571, 19124), (574, 19133), (579, 19160), (595, 19229), (598, 19247), (602, 19256), (604, 19268), (610, 19304), (615, 19334), (620, 19355), (626, 19379), (630, 19415), (635, 19469), (647, 19529), (652, 19571), (671, 19649), (681, 19706), (685, 19730), (692, 19784), (696, 19832), (703, 19874), (705, 19898), (706, 19901),

Gene: Funsized_34 Start: 32646, Stop: 35123, Start Num: 94

Candidate Starts for Funsized_34:

(Start: 94 @32646 has 4 MA's), (99, 32655), (131, 32742), (132, 32748), (143, 32778), (163, 32817), (164, 32820), (174, 32847), (176, 32850), (179, 32865), (185, 32883), (215, 32958), (237, 33021), (257, 33078), (264, 33105), (267, 33120), (268, 33123), (285, 33222), (318, 33354), (320, 33360), (328, 33384), (345, 33420), (357, 33459), (368, 33504), (373, 33519), (383, 33564), (395, 33600), (400, 33621), (426, 33708), (448, 33810), (467, 33909), (476, 33939), (483, 33975), (486, 33990), (488, 33996), (506, 34065), (508, 34071), (519, 34122), (547, 34263), (552, 34287), (561, 34323), (577, 34389), (586, 34434), (602, 34491), (605, 34506), (608, 34518), (623, 34611), (625, 34617), (626, 34620), (634, 34710), (636, 34722), (659, 34848), (680, 34953), (697, 35106),

Gene: GUmbie_18 Start: 17402, Stop: 19939, Start Num: 81

Candidate Starts for GUmbie_18:

(Start: 81 @17402 has 221 MA's), (92, 17423), (Start: 104 @17444 has 1 MA's), (121, 17483), (154, 17552), (159, 17561), (160, 17564), (167, 17582), (178, 17615), (184, 17630), (238, 17783), (241, 17792), (256, 17837), (276, 17936), (277, 17939), (287, 18005), (302, 18080), (303, 18086), (316,

18128), (318, 18134), (319, 18137), (335, 18170), (338, 18176), (350, 18206), (357, 18227), (365, 18257), (367, 18266), (373, 18281), (374, 18284), (401, 18395), (402, 18398), (403, 18407), (404, 18413), (410, 18428), (411, 18431), (419, 18452), (428, 18482), (432, 18494), (440, 18527), (462, 18638), (463, 18641), (469, 18668), (471, 18674), (483, 18728), (484, 18731), (511, 18818), (514, 18833), (516, 18845), (517, 18848), (528, 18914), (534, 18938), (537, 18959), (539, 18968), (547, 19010), (552, 19028), (553, 19031), (560, 19061), (565, 19085), (571, 19097), (574, 19106), (595, 19202), (598, 19220), (602, 19229), (604, 19241), (610, 19277), (615, 19307), (618, 19316), (620, 19328), (630, 19388), (635, 19442), (647, 19502), (652, 19544), (681, 19679), (685, 19703), (692, 19757), (696, 19805), (703, 19847), (705, 19871), (706, 19874),

Gene: Gage_28 Start: 22274, Stop: 24670, Start Num: 126

Candidate Starts for Gage_28:

(Start: 126 @22274 has 125 MA's), (195, 22451), (206, 22472), (264, 22619), (288, 22760), (294, 22793), (302, 22826), (309, 22862), (350, 22955), (367, 23015), (374, 23033), (406, 23165), (422, 23210), (453, 23342), (462, 23387), (478, 23447), (510, 23561), (514, 23582), (522, 23621), (525, 23642), (527, 23657), (560, 23807), (562, 23813), (565, 23831), (580, 23885), (598, 23969), (618, 24062), (661, 24308), (696, 24524), (706, 24608), (712, 24641),

Gene: Gaia_21 Start: 19931, Stop: 22501, Start Num: 74

Candidate Starts for Gaia_21:

(Start: 74 @19931 has 2 MA's), (110, 20021), (142, 20090), (146, 20099), (148, 20102), (172, 20156), (175, 20168), (193, 20216), (211, 20261), (235, 20333), (241, 20354), (247, 20375), (255, 20396), (256, 20399), (282, 20543), (288, 20576), (303, 20633), (319, 20684), (326, 20702), (365, 20798), (367, 20807), (370, 20813), (373, 20822), (374, 20825), (380, 20852), (385, 20873), (396, 20906), (397, 20915), (401, 20936), (403, 20948), (410, 20969), (428, 21023), (432, 21035), (440, 21068), (455, 21143), (461, 21170), (489, 21293), (501, 21320), (507, 21344), (514, 21374), (519, 21398), (526, 21440), (527, 21449), (548, 21578), (555, 21605), (571, 21656), (596, 21767), (598, 21782), (648, 22073), (681, 22241), (685, 22265), (703, 22409), (706, 22436), (708, 22442), (709, 22445),

Gene: Galactic_18 Start: 17394, Stop: 19931, Start Num: 81

Candidate Starts for Galactic_18:

(76, 17382), (Start: 81 @17394 has 221 MA's), (92, 17415), (Start: 104 @17436 has 1 MA's), (121, 17475), (154, 17544), (159, 17553), (160, 17556), (167, 17574), (178, 17607), (184, 17622), (202, 17670), (240, 17781), (241, 17784), (252, 17814), (256, 17829), (273, 17907), (277, 17931), (287, 17997), (295, 18042), (302, 18072), (303, 18078), (305, 18096), (316, 18120), (319, 18129), (335, 18162), (338, 18168), (350, 18198), (363, 18237), (365, 18249), (367, 18258), (373, 18273), (374, 18276), (401, 18387), (402, 18390), (403, 18399), (404, 18405), (410, 18420), (411, 18423), (419, 18444), (428, 18474), (432, 18486), (440, 18519), (462, 18630), (463, 18633), (469, 18660), (471, 18666), (483, 18720), (484, 18723), (514, 18825), (516, 18837), (517, 18840), (528, 18906), (534, 18930), (537, 18951), (539, 18960), (552, 19020), (553, 19023), (562, 19059), (565, 19077), (571, 19089), (574, 19098), (579, 19125), (595, 19194), (598, 19212), (602, 19221), (604, 19233), (610, 19269), (615, 19299), (620, 19320), (626, 19344), (630, 19380), (635, 19434), (647, 19494), (652, 19536), (671, 19614), (681, 19671), (685, 19695), (692, 19749), (696, 19797), (703, 19839), (705, 19863), (706, 19866),

Gene: Gandalph_18 Start: 17413, Stop: 19965, Start Num: 81

Candidate Starts for Gandalph_18:

(Start: 81 @17413 has 221 MA's), (121, 17494), (154, 17563), (159, 17572), (160, 17575), (167, 17593), (184, 17641), (201, 17686), (240, 17800), (241, 17803), (244, 17815), (253, 17836), (255, 17845), (256, 17848), (267, 17896), (273, 17926), (282, 17992), (288, 18025), (295, 18061), (301, 18085), (318, 18145), (319, 18148), (326, 18166), (355, 18229), (357, 18232), (363, 18250), (367, 18271), (374, 18289), (380, 18316), (385, 18337), (396, 18370), (403, 18412), (404, 18418), (406, 18421), (411, 18436), (421, 18463), (422, 18466), (428, 18487), (432, 18499), (440, 18532), (460,

18625), (483, 18733), (489, 18757), (495, 18763), (500, 18781), (501, 18784), (507, 18808), (514, 18838), (519, 18862), (525, 18898), (526, 18904), (527, 18913), (533, 18940), (543, 19003), (547, 19027), (548, 19042), (560, 19084), (575, 19135), (596, 19231), (598, 19246), (602, 19255), (607, 19279), (618, 19342), (626, 19378), (678, 19684), (685, 19729), (696, 19831),

Gene: Ganymede_28 Start: 20892, Stop: 23324, Start Num: 134

Candidate Starts for Ganymede_28:

(Start: 134 @20892 has 92 MA's), (174, 20991), (263, 21252), (267, 21273), (305, 21480), (318, 21513), (323, 21543), (347, 21615), (352, 21639), (365, 21684), (401, 21837), (412, 21882), (416, 21894), (420, 21903), (433, 21954), (467, 22134), (472, 22149), (487, 22218), (492, 22230), (508, 22293), (517, 22335), (525, 22374), (526, 22380), (527, 22389), (532, 22410), (544, 22470), (574, 22587), (581, 22629), (601, 22701), (603, 22710), (608, 22731), (619, 22803), (623, 22824), (635, 22920), (647, 22983), (665, 23067), (673, 23109), (679, 23148),

Gene: Gator_24 Start: 21899, Stop: 24295, Start Num: 126

Candidate Starts for Gator_24:

(Start: 126 @21899 has 125 MA's), (195, 22076), (206, 22097), (264, 22244), (288, 22385), (294, 22418), (302, 22451), (309, 22487), (350, 22580), (367, 22640), (374, 22658), (396, 22739), (453, 22967), (462, 23012), (514, 23207), (515, 23213), (517, 23222), (525, 23267), (527, 23282), (562, 23438), (565, 23456), (568, 23465), (581, 23519), (598, 23594), (599, 23597), (634, 23807), (636, 23819), (661, 23933), (696, 24149), (706, 24233), (710, 24257), (712, 24266),

Gene: Gemini_29 Start: 22791, Stop: 25187, Start Num: 126

Candidate Starts for Gemini_29:

(Start: 126 @22791 has 125 MA's), (195, 22968), (206, 22989), (264, 23136), (288, 23277), (294, 23310), (302, 23343), (309, 23379), (350, 23472), (367, 23532), (374, 23550), (406, 23682), (422, 23727), (453, 23859), (462, 23904), (478, 23964), (510, 24078), (514, 24099), (522, 24138), (525, 24159), (527, 24174), (560, 24324), (562, 24330), (565, 24348), (580, 24402), (598, 24486), (618, 24579), (661, 24825), (696, 25041), (706, 25125), (712, 25158),

Gene: Geraldini_27 Start: 20888, Stop: 23320, Start Num: 134

Candidate Starts for Geraldini_27:

(Start: 134 @20888 has 92 MA's), (174, 20987), (224, 21128), (263, 21248), (267, 21269), (305, 21476), (318, 21509), (323, 21539), (347, 21611), (352, 21635), (401, 21833), (412, 21878), (416, 21890), (420, 21899), (433, 21950), (467, 22130), (472, 22145), (487, 22214), (492, 22226), (508, 22289), (517, 22331), (525, 22370), (526, 22376), (527, 22385), (532, 22406), (544, 22466), (574, 22583), (581, 22625), (601, 22697), (603, 22706), (608, 22727), (619, 22799), (623, 22820), (635, 22916), (647, 22979), (665, 23063), (673, 23105), (679, 23144),

Gene: Geralt_18 Start: 17396, Stop: 19933, Start Num: 81

Candidate Starts for Geralt_18:

(Start: 81 @17396 has 221 MA's), (92, 17417), (Start: 104 @17438 has 1 MA's), (121, 17477), (154, 17546), (159, 17555), (160, 17558), (167, 17576), (184, 17624), (202, 17672), (240, 17783), (241, 17786), (256, 17831), (273, 17909), (277, 17933), (287, 17999), (302, 18074), (303, 18080), (305, 18098), (316, 18122), (319, 18131), (335, 18164), (338, 18170), (350, 18200), (357, 18221), (365, 18251), (367, 18260), (397, 18368), (400, 18380), (401, 18389), (402, 18392), (404, 18407), (410, 18422), (411, 18425), (419, 18446), (432, 18488), (440, 18521), (462, 18632), (463, 18635), (469, 18662), (471, 18668), (483, 18722), (484, 18725), (495, 18752), (514, 18827), (516, 18839), (517, 18842), (528, 18908), (533, 18929), (534, 18932), (537, 18953), (539, 18962), (547, 19004), (552, 19022), (553, 19025), (560, 19055), (565, 19079), (571, 19091), (574, 19100), (595, 19196), (598, 19214), (602, 19223), (604, 19235), (610, 19271), (615, 19301), (618, 19310), (620, 19322), (630, 19382), (635, 19436), (647, 19496), (652, 19538), (681, 19673), (685, 19697), (692, 19751), (696, 19799), (703, 19841), (705, 19865), (706, 19868),

Gene: GigiOuiOui_18 Start: 17527, Stop: 20064, Start Num: 81

Candidate Starts for GigiOuiOui_18:

(Start: 81 @17527 has 221 MA's), (92, 17548), (Start: 104 @17569 has 1 MA's), (121, 17608), (154, 17677), (159, 17686), (160, 17689), (167, 17707), (184, 17755), (238, 17908), (241, 17917), (256, 17962), (276, 18061), (277, 18064), (287, 18130), (302, 18205), (303, 18211), (305, 18229), (316, 18253), (318, 18259), (319, 18262), (335, 18295), (338, 18301), (350, 18331), (357, 18352), (365, 18382), (367, 18391), (373, 18406), (374, 18409), (401, 18520), (402, 18523), (403, 18532), (404, 18538), (410, 18553), (411, 18556), (419, 18577), (428, 18607), (432, 18619), (440, 18652), (462, 18763), (463, 18766), (469, 18793), (471, 18799), (483, 18853), (484, 18856), (514, 18958), (516, 18970), (517, 18973), (528, 19039), (534, 19063), (537, 19084), (539, 19093), (552, 19153), (553, 19156), (562, 19192), (565, 19210), (571, 19222), (574, 19231), (579, 19258), (594, 19315), (595, 19327), (598, 19345), (602, 19354), (604, 19366), (610, 19402), (615, 19432), (618, 19441), (620, 19453), (630, 19513), (635, 19567), (647, 19627), (652, 19669), (681, 19804), (685, 19828), (692, 19882), (696, 19930), (703, 19972), (705, 19996), (706, 19999),

Gene: Girafales_19 Start: 17227, Stop: 19764, Start Num: 81

Candidate Starts for Girafales_19:

(Start: 81 @17227 has 221 MA's), (92, 17248), (Start: 104 @17269 has 1 MA's), (121, 17308), (154, 17377), (159, 17386), (160, 17389), (167, 17407), (178, 17440), (184, 17455), (202, 17503), (240, 17614), (241, 17617), (252, 17647), (256, 17662), (273, 17740), (277, 17764), (287, 17830), (295, 17875), (302, 17905), (303, 17911), (305, 17929), (316, 17953), (319, 17962), (335, 17995), (338, 18001), (350, 18031), (363, 18070), (367, 18091), (373, 18106), (374, 18109), (402, 18223), (403, 18232), (404, 18238), (411, 18256), (419, 18277), (428, 18307), (432, 18319), (440, 18352), (462, 18463), (463, 18466), (469, 18493), (471, 18499), (483, 18553), (484, 18556), (511, 18643), (514, 18658), (517, 18673), (534, 18763), (537, 18784), (539, 18793), (552, 18853), (553, 18856), (560, 18886), (565, 18910), (574, 18931), (595, 19027), (598, 19045), (602, 19054), (604, 19066), (610, 19102), (615, 19132), (620, 19153), (626, 19177), (630, 19213), (635, 19267), (647, 19327), (652, 19369), (671, 19447), (681, 19504), (685, 19528), (692, 19582), (696, 19630), (703, 19672), (705, 19696), (706, 19699),

Gene: Girr_18 Start: 17371, Stop: 19908, Start Num: 81

Candidate Starts for Girr_18:

(Start: 81 @17371 has 221 MA's), (92, 17392), (Start: 104 @17413 has 1 MA's), (121, 17452), (154, 17521), (159, 17530), (160, 17533), (167, 17551), (178, 17584), (184, 17599), (238, 17752), (241, 17761), (256, 17806), (276, 17905), (277, 17908), (287, 17974), (302, 18049), (303, 18055), (316, 18097), (318, 18103), (319, 18106), (335, 18139), (338, 18145), (350, 18175), (357, 18196), (365, 18226), (367, 18235), (373, 18250), (374, 18253), (401, 18364), (402, 18367), (403, 18376), (404, 18382), (410, 18397), (411, 18400), (419, 18421), (428, 18451), (432, 18463), (440, 18496), (462, 18607), (463, 18610), (469, 18637), (471, 18643), (483, 18697), (484, 18700), (511, 18787), (514, 18802), (516, 18814), (517, 18817), (528, 18883), (534, 18907), (537, 18928), (539, 18937), (547, 18979), (552, 18997), (553, 19000), (560, 19030), (565, 19054), (571, 19066), (574, 19075), (595, 19171), (598, 19189), (602, 19198), (604, 19210), (610, 19246), (615, 19276), (618, 19285), (620, 19297), (630, 19357), (635, 19411), (647, 19471), (652, 19513), (681, 19648), (685, 19672), (692, 19726), (696, 19774), (703, 19816), (705, 19840), (706, 19843),

Gene: Giuseppe_30 Start: 24308, Stop: 26578, Start Num: 39

Candidate Starts for Giuseppe_30:

(Start: 39 @24308 has 22 MA's), (59, 24443), (61, 24452), (102, 24626), (105, 24632), (108, 24644), (167, 24797), (173, 24812), (177, 24827), (277, 25208), (279, 25214), (284, 25259), (301, 25346), (370, 25547), (372, 25553), (382, 25601), (394, 25631), (400, 25655), (449, 25844), (456, 25871), (465, 25919), (482, 25991), (497, 26030), (503, 26051), (506, 26066), (511, 26084), (517, 26114), (536, 26198), (590, 26399), (600, 26441), (627, 26567),

Gene: Glexan_24 Start: 21900, Stop: 24296, Start Num: 126

Candidate Starts for Glexan_24:

(Start: 126 @21900 has 125 MA's), (195, 22077), (206, 22098), (264, 22245), (288, 22386), (294, 22419), (302, 22452), (309, 22488), (350, 22581), (367, 22641), (374, 22659), (406, 22791), (453, 22968), (462, 23013), (510, 23187), (514, 23208), (522, 23247), (525, 23268), (527, 23283), (562, 23439), (565, 23457), (580, 23511), (598, 23595), (654, 23919), (696, 24150), (706, 24234), (712, 24267),

Gene: Goku_26 Start: 21998, Stop: 24394, Start Num: 126

Candidate Starts for Goku_26:

(Start: 126 @21998 has 125 MA's), (195, 22175), (206, 22196), (264, 22343), (288, 22484), (294, 22517), (302, 22550), (309, 22586), (350, 22679), (367, 22739), (374, 22757), (396, 22838), (453, 23066), (462, 23111), (514, 23306), (515, 23312), (517, 23321), (525, 23366), (527, 23381), (562, 23537), (565, 23555), (568, 23564), (581, 23618), (598, 23693), (599, 23696), (634, 23906), (636, 23918), (661, 24032), (696, 24248), (706, 24332), (710, 24356), (712, 24365),

Gene: GoldenSpark_28 Start: 22274, Stop: 24670, Start Num: 126

Candidate Starts for GoldenSpark_28:

(Start: 126 @22274 has 125 MA's), (195, 22451), (206, 22472), (264, 22619), (294, 22793), (302, 22826), (309, 22862), (350, 22955), (367, 23015), (374, 23033), (406, 23165), (422, 23210), (453, 23342), (462, 23387), (478, 23447), (510, 23561), (514, 23582), (522, 23621), (525, 23642), (527, 23657), (560, 23807), (562, 23813), (565, 23831), (580, 23885), (598, 23969), (661, 24308), (696, 24524), (706, 24608), (712, 24641),

Gene: Goldilocks_27 Start: 21694, Stop: 24090, Start Num: 126

Candidate Starts for Goldilocks_27:

(Start: 126 @21694 has 125 MA's), (195, 21871), (206, 21892), (264, 22039), (288, 22180), (294, 22213), (302, 22246), (309, 22282), (350, 22375), (367, 22435), (374, 22453), (406, 22585), (422, 22630), (453, 22762), (462, 22807), (478, 22867), (510, 22981), (514, 23002), (522, 23041), (525, 23062), (527, 23077), (560, 23227), (562, 23233), (565, 23251), (580, 23305), (598, 23389), (618, 23482), (661, 23728), (696, 23944), (706, 24028), (712, 24061),

Gene: Gonephishing_34 Start: 28088, Stop: 30448, Start Num: 167

Candidate Starts for Gonephishing_34:

(Start: 81 @27893 has 221 MA's), (167, 28088), (178, 28124), (184, 28139), (202, 28187), (240, 28298), (241, 28301), (252, 28331), (256, 28346), (273, 28424), (277, 28448), (287, 28514), (295, 28559), (302, 28589), (303, 28595), (305, 28613), (316, 28637), (319, 28646), (335, 28679), (338, 28685), (350, 28715), (363, 28754), (365, 28766), (367, 28775), (373, 28790), (374, 28793), (401, 28904), (402, 28907), (403, 28916), (404, 28922), (410, 28937), (411, 28940), (428, 28991), (432, 29003), (440, 29036), (453, 29102), (462, 29147), (463, 29150), (469, 29177), (471, 29183), (483, 29237), (484, 29240), (511, 29327), (514, 29342), (516, 29354), (517, 29357), (528, 29423), (537, 29468), (539, 29477), (552, 29537), (553, 29540), (562, 29576), (565, 29594), (571, 29606), (574, 29615), (579, 29642), (595, 29711), (598, 29729), (602, 29738), (604, 29750), (610, 29786), (615, 29816), (620, 29837), (626, 29861), (630, 29897), (635, 29951), (647, 30011), (652, 30053), (681, 30188), (685, 30212), (692, 30266), (696, 30314), (703, 30356), (705, 30380), (706, 30383),

Gene: GooberAzure_28 Start: 22274, Stop: 24670, Start Num: 126

Candidate Starts for GooberAzure_28:

(Start: 126 @22274 has 125 MA's), (195, 22451), (206, 22472), (264, 22619), (288, 22760), (294, 22793), (302, 22826), (309, 22862), (350, 22955), (367, 23015), (374, 23033), (406, 23165), (422, 23210), (453, 23342), (462, 23387), (478, 23447), (510, 23561), (514, 23582), (522, 23621), (525, 23642), (527, 23657), (560, 23807), (562, 23813), (565, 23831), (580, 23885), (598, 23969), (618,

24062), (661, 24308), (696, 24524), (706, 24608), (712, 24641),

Gene: Gorge_18 Start: 17383, Stop: 19926, Start Num: 81

Candidate Starts for Gorge_18:

(Start: 81 @17383 has 221 MA's), (92, 17404), (102, 17425), (121, 17464), (154, 17533), (159, 17542), (160, 17545), (167, 17563), (184, 17611), (202, 17659), (240, 17770), (241, 17773), (253, 17806), (256, 17818), (273, 17896), (282, 17962), (288, 17995), (299, 18049), (302, 18061), (318, 18115), (319, 18118), (322, 18127), (341, 18160), (355, 18199), (357, 18202), (361, 18217), (363, 18220), (370, 18247), (372, 18253), (373, 18256), (374, 18259), (380, 18286), (383, 18304), (385, 18307), (403, 18382), (410, 18403), (411, 18406), (421, 18433), (428, 18457), (440, 18502), (441, 18505), (450, 18556), (463, 18619), (465, 18628), (470, 18652), (501, 18757), (502, 18760), (514, 18811), (515, 18817), (516, 18823), (517, 18826), (525, 18871), (527, 18886), (533, 18913), (537, 18937), (547, 18988), (552, 19006), (553, 19009), (554, 19021), (571, 19075), (598, 19198), (611, 19261), (624, 19324), (632, 19399), (673, 19600), (702, 19828), (708, 19867), (709, 19870),

Gene: Grimmer_19 Start: 18060, Stop: 20597, Start Num: 81

Candidate Starts for Grimmer_19:

(Start: 81 @18060 has 221 MA's), (92, 18081), (Start: 104 @18102 has 1 MA's), (121, 18141), (154, 18210), (159, 18219), (160, 18222), (167, 18240), (184, 18288), (240, 18447), (241, 18450), (256, 18495), (273, 18573), (276, 18594), (277, 18597), (287, 18663), (302, 18738), (303, 18744), (316, 18786), (318, 18792), (319, 18795), (335, 18828), (338, 18834), (350, 18864), (357, 18885), (365, 18915), (367, 18924), (397, 19032), (400, 19044), (401, 19053), (402, 19056), (403, 19065), (404, 19071), (410, 19086), (411, 19089), (419, 19110), (428, 19140), (432, 19152), (440, 19185), (441, 19188), (453, 19251), (462, 19296), (463, 19299), (469, 19326), (471, 19332), (483, 19386), (484, 19389), (495, 19416), (514, 19491), (516, 19503), (517, 19506), (528, 19572), (533, 19593), (534, 19596), (537, 19617), (552, 19686), (553, 19689), (562, 19725), (565, 19743), (574, 19764), (595, 19860), (598, 19878), (602, 19887), (604, 19899), (610, 19935), (615, 19965), (630, 20046), (635, 20100), (652, 20202), (681, 20337), (685, 20361), (692, 20415), (700, 20484), (705, 20529), (706, 20532),

Gene: Guanica15_27 Start: 20098, Stop: 22530, Start Num: 134

Candidate Starts for Guanica15_27:

(Start: 134 @20098 has 92 MA's), (154, 20146), (156, 20149), (159, 20158), (263, 20458), (267, 20479), (318, 20719), (347, 20821), (352, 20845), (353, 20851), (365, 20890), (401, 21043), (416, 21100), (420, 21109), (433, 21160), (469, 21346), (472, 21355), (473, 21361), (483, 21406), (487, 21424), (508, 21499), (517, 21541), (525, 21580), (526, 21586), (527, 21595), (532, 21616), (541, 21664), (552, 21709), (554, 21724), (574, 21793), (581, 21835), (603, 21916), (619, 22009), (623, 22030), (635, 22126), (679, 22354), (686, 22408), (689, 22429), (696, 22501), (698, 22519),

Gene: Gumball_29 Start: 24266, Stop: 26536, Start Num: 39

Candidate Starts for Gumball_29:

(Start: 39 @24266 has 22 MA's), (59, 24401), (61, 24410), (102, 24584), (105, 24590), (108, 24602), (167, 24755), (173, 24770), (177, 24785), (277, 25166), (279, 25172), (284, 25217), (301, 25304), (346, 25430), (370, 25505), (372, 25511), (382, 25559), (394, 25589), (400, 25613), (449, 25802), (456, 25829), (465, 25877), (482, 25949), (497, 25988), (503, 26009), (506, 26024), (511, 26042), (517, 26072), (536, 26156), (590, 26357), (600, 26399), (627, 26525),

Gene: Guppsters_19 Start: 17584, Stop: 20109, Start Num: 81

Candidate Starts for Guppsters_19:

(Start: 81 @17584 has 221 MA's), (128, 17674), (154, 17734), (159, 17743), (160, 17746), (167, 17764), (184, 17812), (201, 17857), (240, 17971), (241, 17974), (247, 17995), (253, 18007), (256, 18019), (273, 18097), (282, 18163), (288, 18196), (299, 18250), (302, 18262), (318, 18316), (319, 18319), (322, 18328), (341, 18361), (357, 18403), (361, 18418), (370, 18448), (372, 18454), (373,

18457), (374, 18460), (380, 18487), (383, 18505), (385, 18508), (403, 18583), (410, 18604), (411, 18607), (421, 18634), (428, 18658), (432, 18670), (450, 18757), (463, 18820), (465, 18829), (470, 18853), (501, 18958), (502, 18961), (514, 19012), (515, 19018), (516, 19024), (517, 19027), (525, 19072), (527, 19087), (533, 19114), (537, 19138), (539, 19147), (552, 19207), (553, 19210), (554, 19222), (565, 19264), (571, 19276), (598, 19399), (611, 19462), (624, 19525), (632, 19600), (673, 19801), (696, 19972), (702, 20011), (708, 20050), (709, 20053),

Gene: Hades_18 Start: 17406, Stop: 19958, Start Num: 81

Candidate Starts for Hades_18:

(Start: 81 @17406 has 221 MA's), (128, 17496), (154, 17556), (159, 17565), (160, 17568), (167, 17586), (184, 17634), (201, 17679), (240, 17793), (241, 17796), (244, 17808), (253, 17829), (255, 17838), (256, 17841), (273, 17919), (282, 17985), (288, 18018), (295, 18054), (301, 18078), (318, 18138), (319, 18141), (326, 18159), (355, 18222), (357, 18225), (363, 18243), (367, 18264), (374, 18282), (380, 18309), (385, 18330), (396, 18363), (403, 18405), (404, 18411), (406, 18414), (411, 18429), (421, 18456), (422, 18459), (428, 18480), (432, 18492), (440, 18525), (460, 18618), (483, 18726), (489, 18750), (495, 18756), (500, 18774), (501, 18777), (507, 18801), (514, 18831), (519, 18855), (525, 18891), (526, 18897), (527, 18906), (533, 18933), (543, 18996), (547, 19020), (548, 19035), (560, 19077), (575, 19128), (596, 19224), (598, 19239), (602, 19248), (607, 19272), (618, 19335), (626, 19371), (678, 19677), (685, 19722), (696, 19824),

Gene: Hamulus_18 Start: 17403, Stop: 19940, Start Num: 81

Candidate Starts for Hamulus_18:

(76, 17391), (Start: 81 @17403 has 221 MA's), (92, 17424), (Start: 104 @17445 has 1 MA's), (121, 17484), (154, 17553), (159, 17562), (160, 17565), (167, 17583), (178, 17616), (184, 17631), (202, 17679), (238, 17784), (240, 17790), (241, 17793), (252, 17823), (255, 17835), (256, 17838), (273, 17916), (277, 17940), (287, 18006), (302, 18081), (303, 18087), (305, 18105), (316, 18129), (319, 18138), (335, 18171), (338, 18177), (350, 18207), (363, 18246), (365, 18258), (367, 18267), (373, 18282), (374, 18285), (401, 18396), (402, 18399), (403, 18408), (404, 18414), (410, 18429), (411, 18432), (419, 18453), (428, 18483), (432, 18495), (440, 18528), (453, 18594), (462, 18639), (463, 18642), (469, 18669), (471, 18675), (483, 18729), (484, 18732), (511, 18819), (514, 18834), (516, 18846), (517, 18849), (528, 18915), (537, 18960), (539, 18969), (552, 19029), (553, 19032), (562, 19068), (565, 19086), (571, 19098), (574, 19107), (579, 19134), (595, 19203), (598, 19221), (602, 19230), (604, 19242), (610, 19278), (615, 19308), (620, 19329), (626, 19353), (630, 19389), (635, 19443), (647, 19503), (652, 19545), (681, 19680), (685, 19704), (692, 19758), (696, 19806), (703, 19848), (705, 19872), (706, 19875),

Gene: HanKaySha_27 Start: 22026, Stop: 24422, Start Num: 126

Candidate Starts for HanKaySha_27:

(Start: 126 @22026 has 125 MA's), (195, 22203), (206, 22224), (264, 22371), (294, 22545), (302, 22578), (309, 22614), (350, 22707), (367, 22767), (374, 22785), (406, 22917), (422, 22962), (453, 23094), (462, 23139), (478, 23199), (510, 23313), (514, 23334), (522, 23373), (525, 23394), (527, 23409), (560, 23559), (562, 23565), (565, 23583), (580, 23637), (598, 23721), (618, 23814), (661, 24060), (696, 24276), (706, 24360), (712, 24393),

Gene: Hannaconda_33 Start: 26378, Stop: 28873, Start Num: 81

Candidate Starts for Hannaconda_33:

(Start: 81 @26378 has 221 MA's), (167, 26573), (178, 26609), (184, 26624), (224, 26711), (229, 26726), (241, 26762), (242, 26768), (256, 26801), (260, 26813), (292, 26984), (295, 26993), (302, 27017), (318, 27071), (335, 27107), (338, 27113), (350, 27143), (359, 27173), (365, 27194), (367, 27203), (373, 27218), (391, 27287), (411, 27368), (415, 27377), (422, 27398), (423, 27401), (432, 27431), (441, 27467), (450, 27518), (451, 27527), (453, 27530), (460, 27557), (461, 27566), (465, 27587), (483, 27665), (484, 27668), (507, 27740), (515, 27776), (516, 27782), (524, 27824), (525, 27830), (533, 27872), (534, 27875), (537, 27896), (538, 27902), (539, 27905), (545, 27935), (578,

28076), (580, 28085), (581, 28094), (587, 28127), (595, 28151), (596, 28154), (598, 28169), (604, 28190), (610, 28226), (611, 28232), (612, 28238), (616, 28259), (622, 28286), (639, 28421), (651, 28493), (653, 28499), (661, 28517), (681, 28616), (696, 28733), (707, 28814), (709, 28817), (712, 28844),

Gene: Harella_25 Start: 22416, Stop: 24812, Start Num: 126

Candidate Starts for Harella_25:

(Start: 126 @22416 has 125 MA's), (195, 22593), (206, 22614), (264, 22761), (288, 22902), (294, 22935), (302, 22968), (309, 23004), (350, 23097), (367, 23157), (374, 23175), (406, 23307), (453, 23484), (462, 23529), (510, 23703), (514, 23724), (522, 23763), (525, 23784), (527, 23799), (562, 23955), (565, 23973), (580, 24027), (598, 24111), (654, 24435), (696, 24666), (706, 24750), (712, 24783),

Gene: Harley_18 Start: 17393, Stop: 19930, Start Num: 81

Candidate Starts for Harley_18:

(Start: 81 @17393 has 221 MA's), (92, 17414), (Start: 104 @17435 has 1 MA's), (121, 17474), (154, 17543), (159, 17552), (160, 17555), (167, 17573), (184, 17621), (240, 17780), (241, 17783), (256, 17828), (276, 17927), (277, 17930), (287, 17996), (302, 18071), (303, 18077), (305, 18095), (316, 18119), (318, 18125), (319, 18128), (335, 18161), (338, 18167), (350, 18197), (357, 18218), (363, 18236), (367, 18257), (397, 18365), (400, 18377), (401, 18386), (402, 18389), (403, 18398), (404, 18404), (410, 18419), (411, 18422), (419, 18443), (432, 18485), (440, 18518), (441, 18521), (453, 18584), (462, 18629), (463, 18632), (471, 18665), (483, 18719), (484, 18722), (495, 18749), (514, 18824), (516, 18836), (517, 18839), (528, 18905), (533, 18926), (534, 18929), (537, 18950), (547, 19001), (552, 19019), (553, 19022), (560, 19052), (565, 19076), (571, 19088), (574, 19097), (595, 19193), (598, 19211), (602, 19220), (604, 19232), (610, 19268), (615, 19298), (618, 19307), (620, 19319), (626, 19343), (630, 19379), (647, 19493), (652, 19535), (681, 19670), (685, 19694), (692, 19748), (696, 19796), (700, 19817), (705, 19862), (706, 19865),

Gene: Hawkeye_32 Start: 24298, Stop: 27204, Start Num: 39

Candidate Starts for Hawkeye_32:

(Start: 39 @24298 has 22 MA's), (53, 24391), (55, 24412), (59, 24433), (61, 24442), (117, 24658), (236, 25009), (259, 25105), (275, 25180), (334, 25429), (346, 25456), (391, 25609), (397, 25633), (404, 25672), (464, 25903), (465, 25906), (496, 26014), (514, 26089), (526, 26155), (565, 26347), (571, 26359), (581, 26410), (610, 26542), (645, 26761), (687, 26992), (697, 27076),

Gene: HedwigODU_27 Start: 20881, Stop: 23313, Start Num: 134

Candidate Starts for HedwigODU_27:

(Start: 134 @20881 has 92 MA's), (174, 20980), (263, 21241), (267, 21262), (305, 21469), (318, 21502), (323, 21532), (347, 21604), (352, 21628), (365, 21673), (401, 21826), (412, 21871), (416, 21883), (420, 21892), (433, 21943), (467, 22123), (472, 22138), (487, 22207), (492, 22219), (517, 22324), (525, 22363), (526, 22369), (527, 22378), (544, 22459), (554, 22507), (575, 22582), (581, 22618), (603, 22699), (608, 22720), (623, 22813), (635, 22909), (665, 23056), (673, 23098), (679, 23137), (689, 23212),

Gene: Hegedechwinu_19 Start: 17254, Stop: 19785, Start Num: 81

Candidate Starts for Hegedechwinu_19:

(76, 17242), (Start: 81 @17254 has 221 MA's), (92, 17275), (Start: 104 @17296 has 1 MA's), (121, 17335), (154, 17404), (159, 17413), (160, 17416), (167, 17434), (178, 17467), (184, 17482), (202, 17524), (240, 17635), (241, 17638), (252, 17668), (256, 17683), (273, 17761), (287, 17851), (295, 17896), (302, 17926), (303, 17932), (305, 17950), (316, 17974), (319, 17983), (335, 18016), (338, 18022), (350, 18052), (363, 18091), (365, 18103), (367, 18112), (373, 18127), (374, 18130), (401, 18241), (402, 18244), (403, 18253), (404, 18259), (410, 18274), (411, 18277), (419, 18298), (428, 18328), (432, 18340), (440, 18373), (462, 18484), (463, 18487), (469, 18514), (471, 18520), (483,

18574), (484, 18577), (514, 18679), (516, 18691), (517, 18694), (528, 18760), (534, 18784), (537, 18805), (539, 18814), (552, 18874), (553, 18877), (562, 18913), (565, 18931), (571, 18943), (574, 18952), (579, 18979), (595, 19048), (598, 19066), (602, 19075), (604, 19087), (610, 19123), (615, 19153), (620, 19174), (626, 19198), (630, 19234), (635, 19288), (647, 19348), (652, 19390), (671, 19468), (681, 19525), (685, 19549), (692, 19603), (696, 19651), (703, 19693), (705, 19717), (706, 19720),

Gene: Helpful_31 Start: 24316, Stop: 26586, Start Num: 39

Candidate Starts for Helpful_31:

(Start: 39 @24316 has 22 MA's), (59, 24451), (61, 24460), (102, 24634), (105, 24640), (108, 24652), (167, 24805), (173, 24820), (177, 24835), (277, 25216), (279, 25222), (284, 25267), (301, 25354), (372, 25561), (382, 25609), (394, 25639), (400, 25663), (449, 25852), (456, 25879), (465, 25927), (482, 25999), (497, 26038), (503, 26059), (506, 26074), (511, 26092), (517, 26122), (536, 26206), (590, 26407), (600, 26449), (627, 26575),

Gene: Henry_26 Start: 22283, Stop: 24679, Start Num: 126

Candidate Starts for Henry_26:

(Start: 126 @22283 has 125 MA's), (195, 22460), (206, 22481), (264, 22628), (288, 22769), (294, 22802), (302, 22835), (309, 22871), (350, 22964), (367, 23024), (374, 23042), (415, 23198), (422, 23219), (450, 23339), (453, 23351), (462, 23396), (514, 23591), (517, 23606), (525, 23651), (527, 23666), (562, 23822), (565, 23840), (568, 23849), (598, 23978), (599, 23981), (634, 24191), (636, 24203), (661, 24317), (696, 24533), (706, 24617), (710, 24641), (712, 24650),

Gene: Highbury_27 Start: 21945, Stop: 24341, Start Num: 126

Candidate Starts for Highbury_27:

(Start: 126 @21945 has 125 MA's), (195, 22122), (206, 22143), (264, 22290), (288, 22431), (294, 22464), (302, 22497), (309, 22533), (350, 22626), (367, 22686), (374, 22704), (406, 22836), (422, 22881), (453, 23013), (462, 23058), (478, 23118), (510, 23232), (514, 23253), (522, 23292), (525, 23313), (527, 23328), (560, 23478), (562, 23484), (565, 23502), (580, 23556), (598, 23640), (618, 23733), (661, 23979), (696, 24195), (706, 24279), (712, 24312),

Gene: Hlubikazi_18 Start: 17495, Stop: 20032, Start Num: 81

Candidate Starts for Hlubikazi_18:

(Start: 81 @17495 has 221 MA's), (92, 17516), (Start: 104 @17537 has 1 MA's), (121, 17576), (154, 17645), (159, 17654), (160, 17657), (167, 17675), (184, 17723), (240, 17882), (241, 17885), (255, 17927), (256, 17930), (273, 18008), (276, 18029), (277, 18032), (287, 18098), (302, 18173), (303, 18179), (316, 18221), (318, 18227), (319, 18230), (335, 18263), (338, 18269), (350, 18299), (357, 18320), (365, 18350), (367, 18359), (397, 18467), (400, 18479), (401, 18488), (402, 18491), (403, 18500), (404, 18506), (410, 18521), (411, 18524), (419, 18545), (432, 18587), (440, 18620), (469, 18761), (471, 18767), (483, 18821), (484, 18824), (495, 18851), (514, 18926), (516, 18938), (517, 18941), (528, 19007), (534, 19031), (537, 19052), (539, 19061), (552, 19121), (553, 19124), (562, 19160), (565, 19178), (574, 19199), (579, 19226), (595, 19295), (598, 19313), (602, 19322), (604, 19334), (610, 19370), (615, 19400), (630, 19481), (647, 19595), (652, 19637), (681, 19772), (685, 19796), (692, 19850), (705, 19964), (706, 19967),

Gene: Holt_27 Start: 21564, Stop: 23960, Start Num: 126

Candidate Starts for Holt_27:

(Start: 126 @21564 has 125 MA's), (195, 21741), (206, 21762), (264, 21909), (288, 22050), (294, 22083), (302, 22116), (309, 22152), (350, 22245), (367, 22305), (374, 22323), (406, 22455), (422, 22500), (453, 22632), (462, 22677), (478, 22737), (510, 22851), (514, 22872), (522, 22911), (525, 22932), (527, 22947), (560, 23097), (562, 23103), (565, 23121), (580, 23175), (598, 23259), (618, 23352), (661, 23598), (696, 23814), (706, 23898), (712, 23931),

Gene: Homura_27 Start: 20912, Stop: 23344, Start Num: 134

Candidate Starts for Homura_27:

(Start: 134 @20912 has 92 MA's), (174, 21011), (263, 21272), (267, 21293), (305, 21500), (318, 21533), (323, 21563), (347, 21635), (352, 21659), (401, 21857), (412, 21902), (416, 21914), (420, 21923), (433, 21974), (467, 22154), (472, 22169), (487, 22238), (492, 22250), (508, 22313), (517, 22355), (525, 22394), (526, 22400), (527, 22409), (532, 22430), (544, 22490), (574, 22607), (581, 22649), (601, 22721), (603, 22730), (608, 22751), (619, 22823), (623, 22844), (635, 22940), (665, 23087), (679, 23168), (696, 23315),

Gene: Hoonter_28 Start: 22274, Stop: 24670, Start Num: 126

Candidate Starts for Hoonter_28:

(Start: 126 @22274 has 125 MA's), (195, 22451), (206, 22472), (264, 22619), (294, 22793), (302, 22826), (309, 22862), (350, 22955), (367, 23015), (374, 23033), (406, 23165), (422, 23210), (453, 23342), (462, 23387), (478, 23447), (510, 23561), (514, 23582), (522, 23621), (525, 23642), (527, 23657), (560, 23807), (562, 23813), (565, 23831), (580, 23885), (598, 23969), (618, 24062), (661, 24308), (696, 24524), (706, 24608), (712, 24641),

Gene: Hokey_28 Start: 22561, Stop: 24957, Start Num: 126

Candidate Starts for Hokey_28:

(Start: 126 @22561 has 125 MA's), (195, 22738), (206, 22759), (264, 22906), (294, 23080), (302, 23113), (309, 23149), (350, 23242), (367, 23302), (374, 23320), (406, 23452), (422, 23497), (453, 23629), (462, 23674), (478, 23734), (510, 23848), (514, 23869), (522, 23908), (525, 23929), (527, 23944), (560, 24094), (562, 24100), (565, 24118), (580, 24172), (598, 24256), (618, 24349), (661, 24595), (696, 24811), (706, 24895), (712, 24928),

Gene: Hosp_024 Start: 25768, Stop: 28263, Start Num: 94

Candidate Starts for Hosp_024:

(Start: 94 @25768 has 4 MA's), (118, 25825), (136, 25882), (179, 26002), (185, 26020), (209, 26092), (212, 26098), (233, 26152), (244, 26188), (285, 26371), (292, 26416), (302, 26455), (320, 26509), (342, 26557), (350, 26587), (358, 26614), (367, 26650), (373, 26668), (379, 26692), (385, 26716), (405, 26800), (418, 26836), (428, 26866), (438, 26902), (442, 26920), (483, 27127), (485, 27139), (488, 27148), (508, 27223), (509, 27226), (511, 27235), (517, 27265), (518, 27268), (525, 27310), (527, 27325), (545, 27406), (547, 27418), (552, 27442), (554, 27457), (556, 27463), (576, 27544), (602, 27634), (605, 27649), (635, 27859), (637, 27880), (642, 27898), (693, 28195),

Gene: HufflyPuff_25 Start: 22268, Stop: 24664, Start Num: 126

Candidate Starts for HufflyPuff_25:

(Start: 126 @22268 has 125 MA's), (195, 22445), (206, 22466), (264, 22613), (288, 22754), (294, 22787), (302, 22820), (309, 22856), (350, 22949), (367, 23009), (374, 23027), (406, 23159), (422, 23204), (453, 23336), (462, 23381), (478, 23441), (510, 23555), (514, 23576), (522, 23615), (525, 23636), (527, 23651), (560, 23801), (562, 23807), (565, 23825), (580, 23879), (598, 23963), (618, 24056), (661, 24302), (696, 24518), (706, 24602), (712, 24635),

Gene: Hyperbowlee_27 Start: 20912, Stop: 23344, Start Num: 134

Candidate Starts for Hyperbowlee_27:

(Start: 134 @20912 has 92 MA's), (174, 21011), (263, 21272), (267, 21293), (305, 21500), (318, 21533), (323, 21563), (347, 21635), (352, 21659), (401, 21857), (412, 21902), (416, 21914), (420, 21923), (433, 21974), (467, 22154), (472, 22169), (487, 22238), (492, 22250), (508, 22313), (517, 22355), (525, 22394), (526, 22400), (527, 22409), (532, 22430), (544, 22490), (574, 22607), (581, 22649), (601, 22721), (603, 22730), (608, 22751), (619, 22823), (623, 22844), (635, 22940), (665, 23087), (679, 23168), (696, 23315),

Gene: IHOP_26 Start: 22460, Stop: 24856, Start Num: 126

Candidate Starts for IHOP_26:

(Start: 126 @22460 has 125 MA's), (195, 22637), (206, 22658), (264, 22805), (288, 22946), (294, 22979), (302, 23012), (309, 23048), (350, 23141), (367, 23201), (374, 23219), (415, 23375), (422, 23396), (450, 23516), (453, 23528), (462, 23573), (514, 23768), (515, 23774), (517, 23783), (525, 23828), (527, 23843), (562, 23999), (565, 24017), (568, 24026), (581, 24080), (598, 24155), (599, 24158), (634, 24368), (636, 24380), (661, 24494), (696, 24710), (706, 24794), (710, 24818), (712, 24827),

Gene: IMPilo_18 Start: 17430, Stop: 19967, Start Num: 81

Candidate Starts for IMPilo_18:

(76, 17418), (Start: 81 @17430 has 221 MA's), (92, 17451), (Start: 104 @17472 has 1 MA's), (121, 17511), (154, 17580), (159, 17589), (160, 17592), (167, 17610), (178, 17643), (184, 17658), (202, 17706), (240, 17817), (241, 17820), (252, 17850), (255, 17862), (256, 17865), (273, 17943), (277, 17967), (287, 18033), (295, 18078), (302, 18108), (303, 18114), (305, 18132), (316, 18156), (319, 18165), (335, 18198), (338, 18204), (350, 18234), (363, 18273), (365, 18285), (367, 18294), (373, 18309), (374, 18312), (401, 18423), (402, 18426), (403, 18435), (404, 18441), (410, 18456), (411, 18459), (419, 18480), (428, 18510), (432, 18522), (440, 18555), (462, 18666), (463, 18669), (469, 18696), (471, 18702), (483, 18756), (484, 18759), (514, 18861), (516, 18873), (517, 18876), (528, 18942), (534, 18966), (537, 18987), (539, 18996), (552, 19056), (553, 19059), (562, 19095), (565, 19113), (571, 19125), (574, 19134), (579, 19161), (595, 19230), (598, 19248), (602, 19257), (604, 19269), (610, 19305), (615, 19335), (620, 19356), (626, 19380), (630, 19416), (635, 19470), (647, 19530), (652, 19572), (671, 19650), (681, 19707), (685, 19731), (692, 19785), (696, 19833), (703, 19875), (705, 19899), (706, 19902),

Gene: IbOuu_18 Start: 17397, Stop: 19934, Start Num: 81

Candidate Starts for IbOuu_18:

(76, 17385), (Start: 81 @17397 has 221 MA's), (92, 17418), (Start: 104 @17439 has 1 MA's), (121, 17478), (154, 17547), (159, 17556), (160, 17559), (167, 17577), (184, 17625), (202, 17673), (240, 17784), (241, 17787), (256, 17832), (273, 17910), (277, 17934), (287, 18000), (295, 18045), (302, 18075), (303, 18081), (305, 18099), (316, 18123), (319, 18132), (335, 18165), (338, 18171), (350, 18201), (363, 18240), (365, 18252), (367, 18261), (373, 18276), (374, 18279), (401, 18390), (402, 18393), (403, 18402), (404, 18408), (410, 18423), (411, 18426), (419, 18447), (428, 18477), (432, 18489), (440, 18522), (462, 18633), (463, 18636), (469, 18663), (471, 18669), (483, 18723), (484, 18726), (514, 18828), (516, 18840), (517, 18843), (528, 18909), (534, 18933), (537, 18954), (539, 18963), (552, 19023), (553, 19026), (562, 19062), (565, 19080), (574, 19101), (579, 19128), (595, 19197), (598, 19215), (602, 19224), (604, 19236), (610, 19272), (620, 19323), (624, 19341), (630, 19383), (635, 19437), (652, 19539), (681, 19674), (685, 19698), (692, 19752), (700, 19821), (705, 19866), (706, 19869),

Gene: Ibhubesi_18 Start: 17393, Stop: 19930, Start Num: 81

Candidate Starts for Ibhubesi_18:

(Start: 81 @17393 has 221 MA's), (92, 17414), (Start: 104 @17435 has 1 MA's), (121, 17474), (154, 17543), (159, 17552), (160, 17555), (167, 17573), (184, 17621), (240, 17780), (241, 17783), (256, 17828), (276, 17927), (277, 17930), (287, 17996), (302, 18071), (303, 18077), (305, 18095), (316, 18119), (318, 18125), (319, 18128), (335, 18161), (338, 18167), (350, 18197), (357, 18218), (363, 18236), (367, 18257), (397, 18365), (400, 18377), (401, 18386), (402, 18389), (403, 18398), (404, 18404), (410, 18419), (411, 18422), (419, 18443), (432, 18485), (440, 18518), (441, 18521), (453, 18584), (462, 18629), (463, 18632), (471, 18665), (483, 18719), (484, 18722), (495, 18749), (514, 18824), (516, 18836), (517, 18839), (528, 18905), (533, 18926), (534, 18929), (537, 18950), (547, 19001), (552, 19019), (553, 19022), (560, 19052), (565, 19076), (571, 19088), (574, 19097), (595, 19193), (598, 19211), (602, 19220), (604, 19232), (610, 19268), (615, 19298), (618, 19307), (620, 19319), (626, 19343), (630, 19379), (647, 19493), (652, 19535), (681, 19670), (685, 19694), (692, 19748), (696, 19796), (700, 19817), (705, 19862), (706, 19865),

Gene: Icee_25 Start: 21943, Stop: 24339, Start Num: 126

Candidate Starts for Icee_25:

(Start: 126 @21943 has 125 MA's), (195, 22120), (206, 22141), (264, 22288), (288, 22429), (294, 22462), (302, 22495), (309, 22531), (350, 22624), (367, 22684), (374, 22702), (396, 22783), (453, 23011), (462, 23056), (514, 23251), (515, 23257), (517, 23266), (525, 23311), (527, 23326), (562, 23482), (565, 23500), (568, 23509), (598, 23638), (599, 23641), (634, 23851), (636, 23863), (661, 23977), (696, 24193), (706, 24277), (710, 24301), (712, 24310),

Gene: Idergollasper_58 Start: 36096, Stop: 38606, Start Num: 96

Candidate Starts for Idergollasper_58:

(Start: 96 @36096 has 28 MA's), (108, 36129), (136, 36198), (137, 36201), (147, 36225), (160, 36249), (170, 36273), (178, 36306), (245, 36513), (248, 36525), (249, 36528), (281, 36675), (282, 36705), (287, 36729), (295, 36759), (296, 36762), (302, 36789), (305, 36813), (318, 36843), (344, 36900), (351, 36924), (363, 36960), (365, 36972), (373, 36996), (374, 36999), (382, 37041), (410, 37137), (411, 37140), (475, 37395), (514, 37539), (525, 37599), (536, 37671), (537, 37674), (558, 37770), (598, 37944), (604, 37965), (622, 38058), (625, 38070), (635, 38160), (650, 38235), (670, 38280), (699, 38481), (704, 38535), (709, 38550),

Gene: Illumine_27 Start: 20895, Stop: 23327, Start Num: 134

Candidate Starts for Illumine_27:

(Start: 134 @20895 has 92 MA's), (154, 20943), (174, 20994), (263, 21255), (267, 21276), (305, 21483), (318, 21516), (323, 21546), (347, 21618), (352, 21642), (365, 21687), (401, 21840), (416, 21897), (420, 21906), (430, 21942), (433, 21957), (467, 22137), (472, 22152), (487, 22221), (492, 22233), (508, 22296), (517, 22338), (525, 22377), (526, 22383), (527, 22392), (532, 22413), (544, 22473), (554, 22521), (569, 22578), (574, 22590), (581, 22632), (601, 22704), (603, 22713), (619, 22806), (623, 22827), (635, 22923), (646, 22977), (665, 23070), (679, 23151), (696, 23298),

Gene: Inca_25 Start: 20963, Stop: 23359, Start Num: 126

Candidate Starts for Inca_25:

(Start: 126 @20963 has 125 MA's), (195, 21140), (206, 21161), (264, 21308), (288, 21449), (294, 21482), (302, 21515), (309, 21551), (350, 21644), (367, 21704), (374, 21722), (406, 21854), (422, 21899), (453, 22031), (462, 22076), (478, 22136), (510, 22250), (514, 22271), (522, 22310), (525, 22331), (527, 22346), (560, 22496), (562, 22502), (565, 22520), (580, 22574), (598, 22658), (618, 22751), (661, 22997), (696, 23213), (706, 23297), (712, 23330),

Gene: Indlulamithi_27 Start: 22936, Stop: 26442, Start Num: 1

Candidate Starts for Indlulamithi_27:

(Start: 1 @22936 has 1 MA's), (6, 23059), (7, 23110), (13, 23290), (18, 23401), (21, 23425), (22, 23434), (32, 23551), (33, 23554), (34, 23560), (36, 23572), (38, 23587), (40, 23596), (46, 23641), (137, 24019), (168, 24088), (185, 24154), (191, 24175), (194, 24181), (200, 24205), (267, 24430), (285, 24535), (303, 24619), (362, 24799), (364, 24808), (367, 24820), (377, 24853), (387, 24904), (398, 24940), (413, 25003), (428, 25045), (434, 25072), (447, 25126), (448, 25135), (458, 25180), (483, 25300), (491, 25330), (494, 25339), (495, 25342), (525, 25486), (531, 25522), (534, 25531), (538, 25558), (544, 25579), (556, 25639), (565, 25678), (574, 25702), (592, 25780), (664, 26194), (676, 26251), (682, 26293), (692, 26371),

Gene: Inky_27 Start: 20912, Stop: 23344, Start Num: 134

Candidate Starts for Inky_27:

(Start: 134 @20912 has 92 MA's), (174, 21011), (263, 21272), (267, 21293), (305, 21500), (318, 21533), (323, 21563), (347, 21635), (352, 21659), (401, 21857), (412, 21902), (416, 21914), (420, 21923), (433, 21974), (467, 22154), (472, 22169), (487, 22238), (492, 22250), (508, 22313), (517, 22355), (525, 22394), (526, 22400), (527, 22409), (532, 22430), (544, 22490), (574, 22607), (581,

22649), (601, 22721), (603, 22730), (608, 22751), (619, 22823), (623, 22844), (635, 22940), (665, 23087), (679, 23168), (696, 23315),

Gene: Inventum_18 Start: 17532, Stop: 20069, Start Num: 81

Candidate Starts for Inventum_18:

(Start: 81 @17532 has 221 MA's), (92, 17553), (Start: 104 @17574 has 1 MA's), (121, 17613), (154, 17682), (159, 17691), (160, 17694), (167, 17712), (184, 17760), (202, 17808), (240, 17919), (241, 17922), (256, 17967), (273, 18045), (277, 18069), (287, 18135), (302, 18210), (303, 18216), (305, 18234), (316, 18258), (319, 18267), (335, 18300), (338, 18306), (350, 18336), (357, 18357), (365, 18387), (367, 18396), (397, 18504), (400, 18516), (401, 18525), (402, 18528), (404, 18543), (410, 18558), (411, 18561), (419, 18582), (432, 18624), (440, 18657), (462, 18768), (463, 18771), (469, 18798), (471, 18804), (483, 18858), (484, 18861), (495, 18888), (514, 18963), (516, 18975), (517, 18978), (528, 19044), (533, 19065), (534, 19068), (537, 19089), (539, 19098), (547, 19140), (552, 19158), (553, 19161), (560, 19191), (565, 19215), (571, 19227), (574, 19236), (595, 19332), (598, 19350), (602, 19359), (604, 19371), (610, 19407), (615, 19437), (618, 19446), (620, 19458), (630, 19518), (635, 19572), (647, 19632), (652, 19674), (681, 19809), (685, 19833), (692, 19887), (696, 19935), (703, 19977), (705, 20001), (706, 20004),

Gene: IrishSherpFalk_19 Start: 18757, Stop: 21294, Start Num: 81

Candidate Starts for IrishSherpFalk_19:

(Start: 81 @18757 has 221 MA's), (92, 18778), (Start: 104 @18799 has 1 MA's), (121, 18838), (154, 18907), (159, 18916), (160, 18919), (167, 18937), (184, 18985), (238, 19138), (241, 19147), (256, 19192), (276, 19291), (277, 19294), (287, 19360), (302, 19435), (303, 19441), (305, 19459), (316, 19483), (318, 19489), (319, 19492), (335, 19525), (338, 19531), (350, 19561), (357, 19582), (365, 19612), (367, 19621), (373, 19636), (374, 19639), (401, 19750), (402, 19753), (403, 19762), (404, 19768), (410, 19783), (411, 19786), (419, 19807), (428, 19837), (432, 19849), (440, 19882), (462, 19993), (463, 19996), (469, 20023), (471, 20029), (483, 20083), (484, 20086), (511, 20173), (514, 20188), (516, 20200), (517, 20203), (528, 20269), (534, 20293), (537, 20314), (539, 20323), (552, 20383), (553, 20386), (562, 20422), (565, 20440), (571, 20452), (574, 20461), (579, 20488), (594, 20545), (595, 20557), (598, 20575), (602, 20584), (604, 20596), (610, 20632), (615, 20662), (618, 20671), (620, 20683), (630, 20743), (635, 20797), (647, 20857), (652, 20899), (681, 21034), (685, 21058), (692, 21112), (696, 21160), (703, 21202), (705, 21226), (706, 21229),

Gene: Island3_21 Start: 19089, Stop: 21620, Start Num: 82

Candidate Starts for Island3_21:

(Start: 82 @19089 has 2 MA's), (Start: 94 @19113 has 4 MA's), (140, 19224), (145, 19233), (160, 19260), (208, 19407), (276, 19674), (281, 19689), (282, 19719), (284, 19725), (287, 19743), (316, 19851), (338, 19902), (374, 20013), (375, 20016), (382, 20055), (396, 20088), (411, 20154), (432, 20214), (439, 20241), (440, 20247), (514, 20553), (525, 20613), (532, 20661), (533, 20664), (536, 20685), (537, 20688), (598, 20949), (624, 21072), (625, 21075), (635, 21165), (647, 21222), (650, 21243), (673, 21303), (701, 21504), (704, 21546),

Gene: JAWS_27 Start: 20866, Stop: 23298, Start Num: 134

Candidate Starts for JAWS_27:

(Start: 134 @20866 has 92 MA's), (174, 20965), (263, 21226), (267, 21247), (305, 21454), (318, 21487), (323, 21517), (347, 21589), (352, 21613), (401, 21811), (412, 21856), (416, 21868), (420, 21877), (433, 21928), (467, 22108), (472, 22123), (487, 22192), (492, 22204), (508, 22267), (517, 22309), (525, 22348), (526, 22354), (527, 22363), (532, 22384), (544, 22444), (574, 22561), (581, 22603), (601, 22675), (603, 22684), (608, 22705), (619, 22777), (623, 22798), (635, 22894), (665, 23041), (679, 23122), (696, 23269),

Gene: Jabbawokkie_26 Start: 17616, Stop: 20168, Start Num: 65

Candidate Starts for Jabbawokkie_26:

(63, 17607), (Start: 65 @17616 has 7 MA's), (Start: 81 @17676 has 221 MA's), (101, 17712), (145, 17811), (202, 17952), (224, 17991), (229, 18006), (241, 18042), (242, 18048), (243, 18051), (254, 18069), (260, 18093), (266, 18117), (267, 18120), (292, 18264), (295, 18273), (302, 18297), (305, 18321), (316, 18345), (318, 18351), (326, 18372), (328, 18375), (338, 18393), (350, 18426), (359, 18456), (365, 18477), (391, 18570), (396, 18585), (397, 18594), (401, 18615), (402, 18618), (415, 18660), (428, 18702), (429, 18705), (432, 18714), (439, 18741), (441, 18750), (447, 18789), (451, 18810), (453, 18813), (461, 18849), (465, 18870), (483, 18948), (484, 18951), (504, 19005), (516, 19065), (532, 19152), (534, 19158), (537, 19179), (545, 19215), (557, 19269), (560, 19278), (578, 19356), (581, 19374), (589, 19410), (591, 19413), (595, 19431), (598, 19449), (610, 19506), (612, 19518), (626, 19581), (630, 19614), (639, 19701), (649, 19749), (651, 19773), (661, 19809), (670, 19848), (677, 19887), (681, 19911), (684, 19932), (696, 20028), (700, 20049), (707, 20109), (709, 20112), (712, 20139),

Gene: JalFarm20_20 Start: 17767, Stop: 20304, Start Num: 81

Candidate Starts for JalFarm20_20:

(76, 17755), (Start: 81 @17767 has 221 MA's), (92, 17788), (Start: 104 @17809 has 1 MA's), (121, 17848), (154, 17917), (159, 17926), (160, 17929), (167, 17947), (178, 17980), (184, 17995), (202, 18043), (240, 18154), (241, 18157), (252, 18187), (255, 18199), (256, 18202), (273, 18280), (277, 18304), (287, 18370), (295, 18415), (302, 18445), (303, 18451), (305, 18469), (316, 18493), (319, 18502), (335, 18535), (338, 18541), (350, 18571), (363, 18610), (365, 18622), (367, 18631), (373, 18646), (374, 18649), (401, 18760), (402, 18763), (403, 18772), (404, 18778), (410, 18793), (411, 18796), (419, 18817), (428, 18847), (432, 18859), (440, 18892), (462, 19003), (463, 19006), (469, 19033), (471, 19039), (483, 19093), (484, 19096), (511, 19183), (514, 19198), (516, 19210), (517, 19213), (528, 19279), (534, 19303), (537, 19324), (539, 19333), (552, 19393), (553, 19396), (562, 19432), (565, 19450), (571, 19462), (574, 19471), (579, 19498), (595, 19567), (598, 19585), (602, 19594), (604, 19606), (610, 19642), (615, 19672), (620, 19693), (626, 19717), (630, 19753), (635, 19807), (647, 19867), (652, 19909), (671, 19987), (681, 20044), (685, 20068), (692, 20122), (696, 20170), (703, 20212), (705, 20236), (706, 20239),

Gene: James_18 Start: 17397, Stop: 19922, Start Num: 81

Candidate Starts for James_18:

(Start: 81 @17397 has 221 MA's), (92, 17418), (102, 17439), (121, 17478), (154, 17547), (159, 17556), (160, 17559), (167, 17577), (184, 17625), (202, 17673), (240, 17784), (241, 17787), (253, 17820), (256, 17832), (273, 17910), (282, 17976), (288, 18009), (299, 18063), (302, 18075), (318, 18129), (319, 18132), (322, 18141), (341, 18174), (355, 18213), (357, 18216), (361, 18231), (363, 18234), (370, 18261), (372, 18267), (373, 18270), (374, 18273), (380, 18300), (383, 18318), (385, 18321), (403, 18396), (410, 18417), (411, 18420), (421, 18447), (428, 18471), (440, 18516), (441, 18519), (450, 18570), (463, 18633), (465, 18642), (470, 18666), (501, 18771), (502, 18774), (514, 18825), (515, 18831), (516, 18837), (517, 18840), (525, 18885), (527, 18900), (533, 18927), (537, 18951), (547, 19002), (552, 19020), (553, 19023), (554, 19035), (571, 19089), (598, 19212), (611, 19275), (624, 19338), (632, 19413), (673, 19614), (702, 19824), (708, 19863), (709, 19866),

Gene: JangDynasty_58 Start: 36182, Stop: 38692, Start Num: 96

Candidate Starts for JangDynasty_58:

(Start: 96 @36182 has 28 MA's), (108, 36215), (136, 36284), (137, 36287), (147, 36311), (160, 36335), (170, 36359), (178, 36392), (245, 36599), (248, 36611), (249, 36614), (281, 36761), (282, 36791), (287, 36815), (295, 36845), (296, 36848), (302, 36875), (305, 36899), (318, 36929), (344, 36986), (351, 37010), (363, 37046), (365, 37058), (373, 37082), (374, 37085), (382, 37127), (410, 37223), (411, 37226), (475, 37481), (514, 37625), (525, 37685), (536, 37757), (537, 37760), (558, 37856), (598, 38030), (604, 38051), (622, 38144), (625, 38156), (635, 38246), (650, 38321), (670, 38366), (699, 38567), (704, 38621), (709, 38636),

Gene: Jant_18 Start: 17553, Stop: 20090, Start Num: 81

Candidate Starts for Jant_18:

(76, 17541), (Start: 81 @17553 has 221 MA's), (92, 17574), (Start: 104 @17595 has 1 MA's), (121, 17634), (154, 17703), (159, 17712), (160, 17715), (167, 17733), (178, 17766), (184, 17781), (202, 17829), (238, 17934), (240, 17940), (241, 17943), (252, 17973), (255, 17985), (256, 17988), (273, 18066), (277, 18090), (287, 18156), (295, 18201), (302, 18231), (303, 18237), (305, 18255), (316, 18279), (319, 18288), (335, 18321), (338, 18327), (350, 18357), (363, 18396), (365, 18408), (367, 18417), (373, 18432), (374, 18435), (401, 18546), (402, 18549), (403, 18558), (404, 18564), (410, 18579), (411, 18582), (419, 18603), (428, 18633), (432, 18645), (440, 18678), (462, 18789), (463, 18792), (469, 18819), (471, 18825), (483, 18879), (484, 18882), (514, 18984), (516, 18996), (517, 18999), (528, 19065), (534, 19089), (537, 19110), (539, 19119), (552, 19179), (553, 19182), (562, 19218), (565, 19236), (571, 19248), (574, 19257), (579, 19284), (595, 19353), (598, 19371), (602, 19380), (604, 19392), (610, 19428), (615, 19458), (620, 19479), (626, 19503), (630, 19539), (635, 19593), (647, 19653), (652, 19695), (681, 19830), (685, 19854), (696, 19956), (703, 19998), (705, 20022), (706, 20025),

Gene: Jarcob_18 Start: 17405, Stop: 19957, Start Num: 81

Candidate Starts for Jarcob_18:

(Start: 81 @17405 has 221 MA's), (121, 17486), (154, 17555), (159, 17564), (160, 17567), (167, 17585), (184, 17633), (201, 17678), (240, 17792), (241, 17795), (244, 17807), (253, 17828), (255, 17837), (256, 17840), (267, 17888), (273, 17918), (282, 17984), (288, 18017), (295, 18053), (301, 18077), (318, 18137), (319, 18140), (326, 18158), (355, 18221), (357, 18224), (363, 18242), (367, 18263), (374, 18281), (380, 18308), (385, 18329), (396, 18362), (403, 18404), (404, 18410), (406, 18413), (411, 18428), (421, 18455), (422, 18458), (428, 18479), (432, 18491), (440, 18524), (460, 18617), (483, 18725), (489, 18749), (495, 18755), (500, 18773), (501, 18776), (507, 18800), (514, 18830), (519, 18854), (525, 18890), (526, 18896), (527, 18905), (533, 18932), (543, 18995), (547, 19019), (548, 19034), (560, 19076), (575, 19127), (596, 19223), (598, 19238), (602, 19247), (607, 19271), (618, 19334), (626, 19370), (678, 19676), (685, 19721), (696, 19823),

Gene: Jarvi_27 Start: 20912, Stop: 23344, Start Num: 134

Candidate Starts for Jarvi_27:

(Start: 134 @20912 has 92 MA's), (174, 21011), (263, 21272), (267, 21293), (305, 21500), (318, 21533), (323, 21563), (347, 21635), (352, 21659), (401, 21857), (412, 21902), (416, 21914), (420, 21923), (433, 21974), (467, 22154), (472, 22169), (487, 22238), (492, 22250), (508, 22313), (517, 22355), (525, 22394), (526, 22400), (527, 22409), (532, 22430), (544, 22490), (574, 22607), (581, 22649), (601, 22721), (603, 22730), (608, 22751), (619, 22823), (623, 22844), (635, 22940), (665, 23087), (679, 23168), (696, 23315),

Gene: Jayhawk_27 Start: 20879, Stop: 23311, Start Num: 134

Candidate Starts for Jayhawk_27:

(Start: 134 @20879 has 92 MA's), (174, 20978), (263, 21239), (267, 21260), (305, 21467), (318, 21500), (323, 21530), (347, 21602), (352, 21626), (365, 21671), (401, 21824), (412, 21869), (416, 21881), (420, 21890), (433, 21941), (467, 22121), (472, 22136), (487, 22205), (492, 22217), (517, 22322), (525, 22361), (526, 22367), (527, 22376), (544, 22457), (554, 22505), (575, 22580), (581, 22616), (603, 22697), (608, 22718), (623, 22811), (635, 22907), (665, 23054), (673, 23096), (679, 23135), (689, 23210),

Gene: JeTaime_28 Start: 23085, Stop: 25481, Start Num: 126

Candidate Starts for JeTaime_28:

(Start: 126 @23085 has 125 MA's), (195, 23262), (206, 23283), (264, 23430), (294, 23604), (302, 23637), (309, 23673), (350, 23766), (367, 23826), (374, 23844), (406, 23976), (422, 24021), (453, 24153), (462, 24198), (478, 24258), (510, 24372), (514, 24393), (522, 24432), (525, 24453), (527, 24468), (560, 24618), (562, 24624), (565, 24642), (580, 24696), (598, 24780), (618, 24873), (661, 25119), (696, 25335), (706, 25419), (712, 25452),

Gene: Jeckyll_27 Start: 20912, Stop: 23344, Start Num: 134

Candidate Starts for Jeckyll_27:

(Start: 134 @20912 has 92 MA's), (174, 21011), (263, 21272), (267, 21293), (305, 21500), (318, 21533), (323, 21563), (347, 21635), (352, 21659), (401, 21857), (412, 21902), (416, 21914), (420, 21923), (433, 21974), (467, 22154), (472, 22169), (487, 22238), (492, 22250), (508, 22313), (517, 22355), (525, 22394), (526, 22400), (527, 22409), (532, 22430), (544, 22490), (574, 22607), (581, 22649), (601, 22721), (603, 22730), (608, 22751), (619, 22823), (623, 22844), (635, 22940), (665, 23087), (679, 23168), (696, 23315),

Gene: Jinglebell_17 Start: 17634, Stop: 20171, Start Num: 81

Candidate Starts for Jinglebell_17:

(Start: 81 @17634 has 221 MA's), (92, 17655), (Start: 104 @17676 has 1 MA's), (121, 17715), (154, 17784), (159, 17793), (160, 17796), (167, 17814), (184, 17862), (240, 18021), (241, 18024), (255, 18066), (256, 18069), (273, 18147), (276, 18168), (277, 18171), (287, 18237), (288, 18246), (295, 18282), (302, 18312), (303, 18318), (316, 18360), (318, 18366), (319, 18369), (335, 18402), (338, 18408), (350, 18438), (357, 18459), (365, 18489), (367, 18498), (397, 18606), (400, 18618), (401, 18627), (402, 18630), (403, 18639), (404, 18645), (410, 18660), (411, 18663), (419, 18684), (432, 18726), (440, 18759), (469, 18900), (471, 18906), (483, 18960), (484, 18963), (495, 18990), (514, 19065), (516, 19077), (517, 19080), (528, 19146), (533, 19167), (534, 19170), (537, 19191), (547, 19242), (552, 19260), (553, 19263), (560, 19293), (565, 19317), (571, 19329), (595, 19434), (598, 19452), (602, 19461), (604, 19473), (610, 19509), (615, 19539), (620, 19560), (626, 19584), (630, 19620), (647, 19734), (652, 19776), (671, 19854), (681, 19911), (685, 19935), (692, 19989), (696, 20037), (703, 20079), (705, 20103), (706, 20106),

Gene: Job42_21 Start: 19082, Stop: 21619, Start Num: 81

Candidate Starts for Job42_21:

(Start: 81 @19082 has 221 MA's), (Start: 104 @19124 has 1 MA's), (128, 19172), (154, 19232), (159, 19241), (160, 19244), (167, 19262), (178, 19295), (184, 19310), (202, 19358), (240, 19469), (241, 19472), (252, 19502), (255, 19514), (256, 19517), (273, 19595), (277, 19619), (287, 19685), (295, 19730), (302, 19760), (303, 19766), (305, 19784), (316, 19808), (319, 19817), (335, 19850), (338, 19856), (350, 19886), (363, 19925), (365, 19937), (367, 19946), (373, 19961), (374, 19964), (401, 20075), (402, 20078), (403, 20087), (404, 20093), (410, 20108), (411, 20111), (419, 20132), (428, 20162), (432, 20174), (440, 20207), (462, 20318), (463, 20321), (469, 20348), (471, 20354), (483, 20408), (484, 20411), (514, 20513), (516, 20525), (517, 20528), (528, 20594), (534, 20618), (537, 20639), (539, 20648), (552, 20708), (553, 20711), (562, 20747), (565, 20765), (571, 20777), (574, 20786), (579, 20813), (595, 20882), (598, 20900), (602, 20909), (604, 20921), (610, 20957), (615, 20987), (620, 21008), (626, 21032), (630, 21068), (635, 21122), (647, 21182), (652, 21224), (671, 21302), (681, 21359), (685, 21383), (692, 21437), (696, 21485), (703, 21527), (705, 21551), (706, 21554),

Gene: JoeyJr_18 Start: 17568, Stop: 20105, Start Num: 81

Candidate Starts for JoeyJr_18:

(76, 17556), (Start: 81 @17568 has 221 MA's), (92, 17589), (Start: 104 @17610 has 1 MA's), (121, 17649), (154, 17718), (159, 17727), (160, 17730), (167, 17748), (184, 17796), (202, 17844), (240, 17955), (241, 17958), (256, 18003), (273, 18081), (277, 18105), (287, 18171), (295, 18216), (302, 18246), (303, 18252), (305, 18270), (316, 18294), (319, 18303), (335, 18336), (338, 18342), (350, 18372), (363, 18411), (365, 18423), (367, 18432), (373, 18447), (374, 18450), (401, 18561), (402, 18564), (403, 18573), (404, 18579), (410, 18594), (411, 18597), (419, 18618), (428, 18648), (432, 18660), (440, 18693), (462, 18804), (463, 18807), (469, 18834), (471, 18840), (483, 18894), (484, 18897), (514, 18999), (516, 19011), (517, 19014), (528, 19080), (534, 19104), (537, 19125), (539, 19134), (552, 19194), (553, 19197), (562, 19233), (565, 19251), (574, 19272), (579, 19299), (595, 19368), (598, 19386), (602, 19395), (604, 19407), (610, 19443), (620, 19494), (624, 19512), (630,

19554), (635, 19608), (652, 19710), (681, 19845), (685, 19869), (692, 19923), (700, 19992), (705, 20037), (706, 20040),

Gene: Jolie1_026 Start: 27564, Stop: 30065, Start Num: 94

Candidate Starts for Jolie1_026:

(Start: 94 @27564 has 4 MA's), (106, 27585), (118, 27621), (136, 27678), (179, 27798), (185, 27816), (209, 27888), (212, 27894), (233, 27948), (244, 27984), (285, 28167), (292, 28212), (302, 28251), (320, 28305), (358, 28410), (367, 28446), (373, 28464), (385, 28512), (405, 28596), (418, 28632), (428, 28662), (438, 28698), (442, 28716), (483, 28923), (485, 28935), (488, 28944), (508, 29019), (509, 29022), (517, 29061), (525, 29106), (527, 29121), (545, 29202), (547, 29214), (550, 29232), (552, 29238), (554, 29253), (556, 29259), (576, 29340), (602, 29430), (605, 29445), (615, 29517), (624, 29556), (635, 29655), (693, 29997),

Gene: Jolie2_22 Start: 19776, Stop: 22241, Start Num: 90

Candidate Starts for Jolie2_22:

(62, 19692), (67, 19707), (73, 19728), (Start: 90 @19776 has 8 MA's), (131, 19884), (137, 19905), (154, 19938), (264, 20241), (302, 20433), (318, 20484), (339, 20529), (367, 20628), (371, 20640), (373, 20646), (391, 20712), (395, 20727), (405, 20778), (442, 20898), (443, 20907), (483, 21105), (492, 21141), (501, 21180), (527, 21309), (535, 21354), (547, 21405), (561, 21465), (572, 21510), (602, 21621), (608, 21648), (624, 21747), (625, 21750), (634, 21843), (642, 21885), (663, 21990), (693, 22179), (696, 22221),

Gene: Joy99_27 Start: 20841, Stop: 23273, Start Num: 134

Candidate Starts for Joy99_27:

(Start: 134 @20841 has 92 MA's), (174, 20940), (263, 21201), (267, 21222), (305, 21429), (318, 21462), (323, 21492), (347, 21564), (352, 21588), (401, 21786), (412, 21831), (416, 21843), (420, 21852), (433, 21903), (467, 22083), (472, 22098), (487, 22167), (492, 22179), (508, 22242), (517, 22284), (525, 22323), (526, 22329), (527, 22338), (532, 22359), (544, 22419), (574, 22536), (581, 22578), (601, 22650), (608, 22680), (619, 22752), (623, 22773), (635, 22869), (665, 23016), (679, 23097), (696, 23244),

Gene: Juice456_20 Start: 18519, Stop: 21056, Start Num: 81

Candidate Starts for Juice456_20:

(76, 18507), (Start: 81 @18519 has 221 MA's), (92, 18540), (Start: 104 @18561 has 1 MA's), (121, 18600), (154, 18669), (159, 18678), (160, 18681), (167, 18699), (178, 18732), (184, 18747), (202, 18795), (240, 18906), (241, 18909), (252, 18939), (255, 18951), (256, 18954), (273, 19032), (277, 19056), (287, 19122), (295, 19167), (302, 19197), (303, 19203), (305, 19221), (316, 19245), (319, 19254), (335, 19287), (338, 19293), (350, 19323), (363, 19362), (365, 19374), (367, 19383), (373, 19398), (374, 19401), (401, 19512), (402, 19515), (403, 19524), (404, 19530), (410, 19545), (411, 19548), (419, 19569), (428, 19599), (432, 19611), (440, 19644), (462, 19755), (463, 19758), (469, 19785), (471, 19791), (483, 19845), (484, 19848), (511, 19935), (514, 19950), (516, 19962), (517, 19965), (528, 20031), (534, 20055), (537, 20076), (539, 20085), (547, 20127), (552, 20145), (553, 20148), (562, 20184), (565, 20202), (571, 20214), (574, 20223), (579, 20250), (595, 20319), (598, 20337), (602, 20346), (604, 20358), (610, 20394), (615, 20424), (620, 20445), (626, 20469), (630, 20505), (635, 20559), (647, 20619), (652, 20661), (671, 20739), (681, 20796), (685, 20820), (692, 20874), (696, 20922), (703, 20964), (705, 20988), (706, 20991),

Gene: Juniper1_18 Start: 17394, Stop: 19931, Start Num: 81

Candidate Starts for Juniper1_18:

(Start: 81 @17394 has 221 MA's), (92, 17415), (Start: 104 @17436 has 1 MA's), (121, 17475), (154, 17544), (159, 17553), (160, 17556), (167, 17574), (178, 17607), (184, 17622), (240, 17781), (241, 17784), (256, 17829), (273, 17907), (277, 17931), (287, 17997), (302, 18072), (303, 18078), (316, 18120), (318, 18126), (319, 18129), (335, 18162), (338, 18168), (350, 18198), (357, 18219), (365,

18249), (367, 18258), (397, 18366), (400, 18378), (401, 18387), (402, 18390), (403, 18399), (404, 18405), (410, 18420), (411, 18423), (419, 18444), (432, 18486), (440, 18519), (462, 18630), (463, 18633), (469, 18660), (471, 18666), (483, 18720), (484, 18723), (495, 18750), (498, 18759), (514, 18825), (516, 18837), (517, 18840), (528, 18906), (533, 18927), (534, 18930), (537, 18951), (547, 19002), (552, 19020), (553, 19023), (560, 19053), (565, 19077), (571, 19089), (574, 19098), (595, 19194), (598, 19212), (602, 19221), (604, 19233), (610, 19269), (615, 19299), (620, 19320), (626, 19344), (630, 19380), (647, 19494), (652, 19536), (681, 19671), (685, 19695), (692, 19749), (700, 19818), (705, 19863), (706, 19866), (708, 19872),

Gene: KandZ_30 Start: 24416, Stop: 26686, Start Num: 39

Candidate Starts for KandZ_30:

(Start: 39 @24416 has 22 MA's), (59, 24551), (61, 24560), (102, 24734), (105, 24740), (108, 24752), (167, 24905), (173, 24920), (177, 24935), (277, 25316), (279, 25322), (284, 25367), (301, 25454), (370, 25655), (372, 25661), (382, 25709), (394, 25739), (400, 25763), (449, 25952), (456, 25979), (465, 26027), (482, 26099), (497, 26138), (503, 26159), (506, 26174), (511, 26192), (517, 26222), (536, 26306), (590, 26507), (600, 26549), (627, 26675),

Gene: Kanye_28 Start: 23270, Stop: 25666, Start Num: 126

Candidate Starts for Kanye_28:

(Start: 126 @23270 has 125 MA's), (195, 23447), (206, 23468), (264, 23615), (288, 23756), (294, 23789), (302, 23822), (309, 23858), (350, 23951), (367, 24011), (374, 24029), (406, 24161), (422, 24206), (453, 24338), (462, 24383), (478, 24443), (510, 24557), (514, 24578), (522, 24617), (525, 24638), (527, 24653), (560, 24803), (562, 24809), (565, 24827), (580, 24881), (598, 24965), (618, 25058), (661, 25304), (696, 25520), (706, 25604), (712, 25637),

Gene: Karhdo_18 Start: 17528, Stop: 20065, Start Num: 81

Candidate Starts for Karhdo_18:

(76, 17516), (Start: 81 @17528 has 221 MA's), (92, 17549), (Start: 104 @17570 has 1 MA's), (121, 17609), (154, 17678), (159, 17687), (160, 17690), (167, 17708), (178, 17741), (184, 17756), (202, 17804), (240, 17915), (241, 17918), (252, 17948), (255, 17960), (256, 17963), (273, 18041), (277, 18065), (287, 18131), (295, 18176), (302, 18206), (303, 18212), (305, 18230), (316, 18254), (319, 18263), (335, 18296), (338, 18302), (350, 18332), (363, 18371), (365, 18383), (367, 18392), (373, 18407), (374, 18410), (401, 18521), (402, 18524), (403, 18533), (404, 18539), (410, 18554), (411, 18557), (419, 18578), (428, 18608), (432, 18620), (440, 18653), (462, 18764), (463, 18767), (469, 18794), (471, 18800), (483, 18854), (484, 18857), (511, 18944), (514, 18959), (516, 18971), (517, 18974), (528, 19040), (534, 19064), (537, 19085), (539, 19094), (547, 19136), (552, 19154), (553, 19157), (560, 19187), (565, 19211), (571, 19223), (574, 19232), (595, 19328), (598, 19346), (602, 19355), (604, 19367), (610, 19403), (615, 19433), (618, 19442), (620, 19454), (630, 19514), (635, 19568), (647, 19628), (652, 19670), (681, 19805), (685, 19829), (692, 19883), (696, 19931), (703, 19973), (705, 19997), (706, 20000),

Gene: KashFlow_30 Start: 26008, Stop: 28503, Start Num: 81

Candidate Starts for KashFlow_30:

(Start: 81 @26008 has 221 MA's), (167, 26203), (178, 26239), (184, 26254), (224, 26341), (229, 26356), (241, 26392), (242, 26398), (256, 26431), (260, 26443), (292, 26614), (295, 26623), (302, 26647), (318, 26701), (335, 26737), (338, 26743), (350, 26773), (359, 26803), (365, 26824), (367, 26833), (373, 26848), (391, 26917), (411, 26998), (415, 27007), (422, 27028), (423, 27031), (432, 27061), (441, 27097), (450, 27148), (451, 27157), (453, 27160), (460, 27187), (461, 27196), (465, 27217), (483, 27295), (484, 27298), (507, 27370), (515, 27406), (516, 27412), (524, 27454), (525, 27460), (533, 27502), (534, 27505), (537, 27526), (538, 27532), (539, 27535), (545, 27565), (578, 27706), (580, 27715), (581, 27724), (587, 27757), (595, 27781), (596, 27784), (598, 27799), (604, 27820), (610, 27856), (611, 27862), (612, 27868), (616, 27889), (622, 27916), (639, 28051), (651, 28123), (653, 28129), (661, 28147), (681, 28246), (696, 28363), (707, 28444), (709, 28447), (712,

28474),

Gene: KayaCho_26 Start: 27566, Stop: 30061, Start Num: 94

Candidate Starts for KayaCho_26:

(Start: 94 @27566 has 4 MA's), (118, 27623), (131, 27662), (163, 27737), (185, 27818), (209, 27890), (233, 27950), (244, 27986), (285, 28169), (292, 28214), (320, 28307), (342, 28355), (358, 28412), (367, 28448), (373, 28466), (380, 28493), (385, 28514), (405, 28598), (418, 28634), (428, 28664), (438, 28700), (442, 28718), (483, 28925), (485, 28937), (488, 28946), (506, 29015), (508, 29021), (509, 29024), (517, 29063), (525, 29108), (532, 29147), (545, 29204), (547, 29216), (552, 29240), (554, 29255), (556, 29261), (576, 29342), (605, 29447), (635, 29657), (637, 29678), (677, 29870), (693, 29993), (697, 30038),

Gene: Kenuha5_18 Start: 17523, Stop: 20015, Start Num: 81

Candidate Starts for Kenuha5_18:

(78, 17511), (Start: 81 @17523 has 221 MA's), (92, 17544), (Start: 104 @17565 has 1 MA's), (122, 17604), (154, 17673), (159, 17682), (160, 17685), (167, 17703), (178, 17736), (189, 17769), (202, 17802), (229, 17856), (241, 17892), (242, 17898), (243, 17901), (254, 17919), (256, 17931), (260, 17943), (266, 17967), (279, 18030), (292, 18114), (295, 18123), (302, 18147), (305, 18171), (316, 18195), (318, 18201), (326, 18222), (338, 18243), (350, 18273), (359, 18303), (365, 18324), (391, 18417), (396, 18432), (397, 18441), (401, 18462), (402, 18465), (428, 18549), (429, 18552), (432, 18561), (439, 18588), (441, 18597), (447, 18636), (451, 18657), (453, 18660), (461, 18696), (465, 18717), (483, 18795), (484, 18798), (504, 18852), (516, 18912), (534, 19005), (536, 19023), (537, 19026), (545, 19062), (557, 19116), (560, 19125), (578, 19203), (581, 19221), (589, 19257), (591, 19260), (595, 19278), (596, 19281), (598, 19296), (604, 19317), (610, 19353), (612, 19365), (626, 19428), (630, 19461), (639, 19548), (649, 19596), (651, 19620), (657, 19647), (661, 19656), (670, 19695), (677, 19734), (681, 19758), (684, 19779), (696, 19875), (700, 19896), (709, 19959), (712, 19986), (713, 19995),

Gene: Kersh_19 Start: 17568, Stop: 20060, Start Num: 81

Candidate Starts for Kersh_19:

(Start: 81 @17568 has 221 MA's), (92, 17589), (Start: 104 @17610 has 1 MA's), (122, 17649), (154, 17718), (159, 17727), (160, 17730), (167, 17748), (178, 17781), (189, 17814), (202, 17847), (229, 17901), (241, 17937), (243, 17946), (254, 17964), (260, 17988), (266, 18012), (285, 18120), (288, 18144), (292, 18159), (295, 18168), (302, 18192), (303, 18198), (305, 18216), (309, 18228), (312, 18234), (316, 18240), (318, 18246), (319, 18249), (322, 18258), (326, 18267), (335, 18282), (350, 18318), (363, 18357), (365, 18369), (367, 18378), (391, 18462), (411, 18543), (415, 18552), (423, 18576), (432, 18606), (441, 18642), (450, 18693), (451, 18702), (453, 18705), (461, 18741), (465, 18762), (483, 18840), (484, 18843), (504, 18897), (516, 18957), (532, 19044), (534, 19050), (537, 19071), (545, 19107), (557, 19161), (560, 19170), (578, 19248), (581, 19266), (589, 19302), (591, 19305), (595, 19323), (598, 19341), (610, 19398), (612, 19410), (626, 19473), (630, 19506), (639, 19593), (649, 19641), (651, 19665), (657, 19692), (661, 19701), (670, 19740), (677, 19779), (681, 19803), (684, 19824), (696, 19920), (700, 19941), (707, 20001), (709, 20004), (712, 20031),

Gene: KiSi_26 Start: 20041, Stop: 22500, Start Num: 134

Candidate Starts for KiSi_26:

(Start: 134 @20041 has 92 MA's), (154, 20089), (196, 20212), (219, 20269), (224, 20281), (256, 20374), (261, 20398), (272, 20449), (303, 20611), (330, 20722), (340, 20761), (347, 20785), (380, 20908), (397, 20980), (417, 21067), (435, 21133), (438, 21148), (458, 21250), (467, 21304), (481, 21364), (504, 21442), (505, 21454), (508, 21463), (517, 21505), (527, 21565), (546, 21652), (551, 21676), (567, 21748), (581, 21805), (608, 21916), (610, 21940), (613, 21961), (624, 22012), (641, 22141), (667, 22246), (696, 22471),

Gene: Kimberlium_20 Start: 18519, Stop: 21056, Start Num: 81

Candidate Starts for Kimberlium_20:

(76, 18507), (Start: 81 @18519 has 221 MA's), (92, 18540), (Start: 104 @18561 has 1 MA's), (121, 18600), (154, 18669), (159, 18678), (160, 18681), (167, 18699), (178, 18732), (184, 18747), (202, 18795), (240, 18906), (241, 18909), (252, 18939), (255, 18951), (256, 18954), (273, 19032), (277, 19056), (287, 19122), (295, 19167), (302, 19197), (303, 19203), (305, 19221), (316, 19245), (319, 19254), (335, 19287), (338, 19293), (350, 19323), (363, 19362), (365, 19374), (367, 19383), (373, 19398), (374, 19401), (401, 19512), (402, 19515), (403, 19524), (404, 19530), (410, 19545), (411, 19548), (419, 19569), (428, 19599), (432, 19611), (440, 19644), (462, 19755), (463, 19758), (469, 19785), (471, 19791), (483, 19845), (484, 19848), (511, 19935), (514, 19950), (516, 19962), (517, 19965), (528, 20031), (534, 20055), (537, 20076), (539, 20085), (547, 20127), (552, 20145), (553, 20148), (562, 20184), (565, 20202), (571, 20214), (574, 20223), (579, 20250), (595, 20319), (598, 20337), (602, 20346), (604, 20358), (610, 20394), (615, 20424), (620, 20445), (626, 20469), (630, 20505), (635, 20559), (647, 20619), (652, 20661), (671, 20739), (681, 20796), (685, 20820), (692, 20874), (696, 20922), (703, 20964), (705, 20988), (706, 20991),

Gene: Kimchi_28 Start: 22277, Stop: 24673, Start Num: 126

Candidate Starts for Kimchi_28:

(Start: 126 @22277 has 125 MA's), (195, 22454), (206, 22475), (264, 22622), (288, 22763), (294, 22796), (302, 22829), (309, 22865), (350, 22958), (367, 23018), (374, 23036), (406, 23168), (422, 23213), (453, 23345), (462, 23390), (478, 23450), (510, 23564), (514, 23585), (522, 23624), (525, 23645), (527, 23660), (560, 23810), (562, 23816), (565, 23834), (580, 23888), (598, 23972), (618, 24065), (661, 24311), (696, 24527), (706, 24611), (712, 24644),

Gene: KingJulian_18 Start: 17437, Stop: 19974, Start Num: 81

Candidate Starts for KingJulian_18:

(76, 17425), (Start: 81 @17437 has 221 MA's), (92, 17458), (Start: 104 @17479 has 1 MA's), (121, 17518), (154, 17587), (159, 17596), (160, 17599), (167, 17617), (178, 17650), (184, 17665), (202, 17713), (240, 17824), (241, 17827), (252, 17857), (255, 17869), (256, 17872), (273, 17950), (277, 17974), (287, 18040), (295, 18085), (302, 18115), (303, 18121), (305, 18139), (316, 18163), (319, 18172), (335, 18205), (338, 18211), (350, 18241), (363, 18280), (365, 18292), (367, 18301), (373, 18316), (374, 18319), (401, 18430), (402, 18433), (403, 18442), (404, 18448), (410, 18463), (411, 18466), (419, 18487), (428, 18517), (432, 18529), (440, 18562), (462, 18673), (463, 18676), (469, 18703), (471, 18709), (483, 18763), (484, 18766), (511, 18853), (514, 18868), (516, 18880), (517, 18883), (528, 18949), (534, 18973), (537, 18994), (539, 19003), (552, 19063), (553, 19066), (562, 19102), (565, 19120), (571, 19132), (574, 19141), (579, 19168), (595, 19237), (598, 19255), (602, 19264), (604, 19276), (610, 19312), (615, 19342), (620, 19363), (626, 19387), (630, 19423), (635, 19477), (647, 19537), (652, 19579), (671, 19657), (681, 19714), (685, 19738), (692, 19792), (696, 19840), (703, 19882), (705, 19906), (706, 19909),

Gene: KingMidas_19 Start: 18701, Stop: 21238, Start Num: 81

Candidate Starts for KingMidas_19:

(76, 18689), (Start: 81 @18701 has 221 MA's), (92, 18722), (Start: 104 @18743 has 1 MA's), (121, 18782), (154, 18851), (159, 18860), (160, 18863), (167, 18881), (184, 18929), (202, 18977), (240, 19088), (241, 19091), (256, 19136), (273, 19214), (277, 19238), (287, 19304), (295, 19349), (302, 19379), (303, 19385), (305, 19403), (316, 19427), (319, 19436), (335, 19469), (338, 19475), (350, 19505), (363, 19544), (365, 19556), (367, 19565), (373, 19580), (374, 19583), (401, 19694), (402, 19697), (403, 19706), (404, 19712), (410, 19727), (411, 19730), (419, 19751), (428, 19781), (432, 19793), (440, 19826), (462, 19937), (463, 19940), (469, 19967), (471, 19973), (483, 20027), (484, 20030), (514, 20132), (516, 20144), (517, 20147), (528, 20213), (534, 20237), (537, 20258), (539, 20267), (552, 20327), (553, 20330), (562, 20366), (565, 20384), (574, 20405), (579, 20432), (595, 20501), (598, 20519), (602, 20528), (604, 20540), (610, 20576), (620, 20627), (624, 20645), (630, 20687), (635, 20741), (652, 20843), (681, 20978), (685, 21002), (692, 21056), (700, 21125), (705, 21170), (706, 21173),

Gene: KingPhillip3_57 Start: 36111, Stop: 38621, Start Num: 96

Candidate Starts for KingPhillip3_57:

(Start: 96 @36111 has 28 MA's), (108, 36144), (136, 36213), (137, 36216), (147, 36240), (160, 36264), (170, 36288), (178, 36321), (245, 36528), (248, 36540), (249, 36543), (281, 36690), (282, 36720), (287, 36744), (295, 36774), (296, 36777), (302, 36804), (305, 36828), (318, 36858), (344, 36915), (351, 36939), (363, 36975), (365, 36987), (373, 37011), (374, 37014), (382, 37056), (410, 37152), (411, 37155), (475, 37410), (514, 37554), (525, 37614), (536, 37686), (537, 37689), (558, 37785), (598, 37959), (604, 37980), (622, 38073), (625, 38085), (635, 38175), (650, 38250), (670, 38295), (699, 38496), (704, 38550), (709, 38565),

Gene: Kingsley_19 Start: 17253, Stop: 19730, Start Num: 81

Candidate Starts for Kingsley_19:

(78, 17241), (Start: 81 @17253 has 221 MA's), (92, 17274), (Start: 104 @17295 has 1 MA's), (122, 17334), (154, 17403), (159, 17412), (160, 17415), (167, 17433), (178, 17466), (184, 17481), (224, 17568), (229, 17583), (241, 17619), (242, 17625), (256, 17658), (260, 17670), (292, 17841), (295, 17850), (302, 17874), (318, 17928), (335, 17964), (338, 17970), (350, 18000), (359, 18030), (365, 18051), (367, 18060), (391, 18144), (404, 18207), (411, 18225), (415, 18234), (422, 18255), (423, 18258), (428, 18276), (432, 18288), (439, 18315), (441, 18324), (450, 18375), (451, 18384), (453, 18387), (460, 18414), (461, 18423), (465, 18444), (483, 18522), (484, 18525), (515, 18633), (516, 18639), (525, 18687), (533, 18729), (534, 18732), (537, 18753), (538, 18759), (539, 18762), (545, 18792), (578, 18933), (581, 18951), (587, 18984), (595, 19008), (596, 19011), (598, 19026), (604, 19047), (610, 19083), (611, 19089), (616, 19116), (622, 19143), (639, 19278), (649, 19326), (651, 19350), (653, 19356), (661, 19374), (681, 19473), (684, 19494), (687, 19512), (696, 19590), (700, 19611), (709, 19674), (710, 19692), (713, 19710),

Gene: Konstantine_34 Start: 26883, Stop: 29726, Start Num: 35

Candidate Starts for Konstantine_34:

(Start: 35 @26883 has 8 MA's), (56, 27015), (58, 27027), (60, 27036), (69, 27105), (98, 27171), (107, 27192), (125, 27240), (139, 27282), (155, 27306), (168, 27339), (180, 27375), (185, 27387), (223, 27480), (241, 27537), (251, 27576), (288, 27771), (293, 27801), (303, 27843), (354, 27984), (363, 28002), (382, 28083), (396, 28122), (400, 28143), (440, 28281), (446, 28320), (461, 28383), (484, 28485), (537, 28710), (616, 29073), (622, 29100), (658, 29343), (669, 29376), (672, 29400), (691, 29520), (701, 29598), (712, 29685), (714, 29700), (715, 29706),

Gene: Kostya_26 Start: 22283, Stop: 24679, Start Num: 126

Candidate Starts for Kostya_26:

(Start: 126 @22283 has 125 MA's), (195, 22460), (206, 22481), (264, 22628), (288, 22769), (294, 22802), (302, 22835), (309, 22871), (350, 22964), (367, 23024), (374, 23042), (396, 23123), (453, 23351), (462, 23396), (514, 23591), (515, 23597), (517, 23606), (525, 23651), (527, 23666), (562, 23822), (565, 23840), (568, 23849), (598, 23978), (599, 23981), (634, 24191), (636, 24203), (661, 24317), (696, 24533), (706, 24617), (710, 24641), (712, 24650),

Gene: Krakatau_19 Start: 18095, Stop: 20632, Start Num: 81

Candidate Starts for Krakatau_19:

(Start: 81 @18095 has 221 MA's), (92, 18116), (Start: 104 @18137 has 1 MA's), (121, 18176), (154, 18245), (159, 18254), (160, 18257), (167, 18275), (178, 18308), (184, 18323), (202, 18371), (240, 18482), (241, 18485), (252, 18515), (255, 18527), (256, 18530), (277, 18632), (287, 18698), (295, 18743), (302, 18773), (303, 18779), (305, 18797), (316, 18821), (319, 18830), (335, 18863), (338, 18869), (350, 18899), (363, 18938), (365, 18950), (367, 18959), (373, 18974), (375, 18980), (401, 19088), (402, 19091), (403, 19100), (404, 19106), (410, 19121), (411, 19124), (419, 19145), (428, 19175), (432, 19187), (440, 19220), (462, 19331), (463, 19334), (469, 19361), (471, 19367), (483, 19421), (484, 19424), (514, 19526), (516, 19538), (517, 19541), (528, 19607), (534, 19631), (537,

19652), (539, 19661), (552, 19721), (553, 19724), (562, 19760), (565, 19778), (571, 19790), (574, 19799), (579, 19826), (595, 19895), (598, 19913), (602, 19922), (604, 19934), (610, 19970), (615, 20000), (620, 20021), (626, 20045), (630, 20081), (635, 20135), (647, 20195), (652, 20237), (671, 20315), (681, 20372), (685, 20396), (692, 20450), (696, 20498), (705, 20564), (706, 20567),

Gene: Krili_57 Start: 35606, Stop: 38116, Start Num: 96

Candidate Starts for Krili_57:

(Start: 96 @35606 has 28 MA's), (108, 35639), (136, 35708), (137, 35711), (147, 35735), (160, 35759), (170, 35783), (178, 35816), (245, 36023), (248, 36035), (249, 36038), (281, 36185), (282, 36215), (287, 36239), (295, 36269), (296, 36272), (302, 36299), (305, 36323), (318, 36353), (344, 36410), (351, 36434), (363, 36470), (365, 36482), (373, 36506), (374, 36509), (382, 36551), (410, 36647), (411, 36650), (475, 36905), (514, 37049), (525, 37109), (536, 37181), (537, 37184), (558, 37280), (598, 37454), (604, 37475), (622, 37568), (625, 37580), (635, 37670), (650, 37745), (670, 37790), (699, 37991), (704, 38045), (709, 38060),

Gene: KristaRAM_19 Start: 18070, Stop: 20607, Start Num: 81

Candidate Starts for KristaRAM_19:

(76, 18058), (Start: 81 @18070 has 221 MA's), (92, 18091), (Start: 104 @18112 has 1 MA's), (121, 18151), (154, 18220), (159, 18229), (160, 18232), (167, 18250), (178, 18283), (184, 18298), (202, 18346), (240, 18457), (241, 18460), (252, 18490), (255, 18502), (256, 18505), (273, 18583), (277, 18607), (287, 18673), (295, 18718), (302, 18748), (303, 18754), (305, 18772), (316, 18796), (319, 18805), (335, 18838), (338, 18844), (350, 18874), (363, 18913), (365, 18925), (367, 18934), (373, 18949), (374, 18952), (401, 19063), (402, 19066), (403, 19075), (404, 19081), (410, 19096), (411, 19099), (419, 19120), (428, 19150), (432, 19162), (440, 19195), (462, 19306), (463, 19309), (469, 19336), (471, 19342), (483, 19396), (484, 19399), (511, 19486), (514, 19501), (516, 19513), (517, 19516), (528, 19582), (534, 19606), (537, 19627), (539, 19636), (552, 19696), (553, 19699), (562, 19735), (565, 19753), (571, 19765), (574, 19774), (579, 19801), (595, 19870), (598, 19888), (602, 19897), (604, 19909), (610, 19945), (615, 19975), (620, 19996), (626, 20020), (630, 20056), (635, 20110), (647, 20170), (652, 20212), (671, 20290), (681, 20347), (685, 20371), (692, 20425), (696, 20473), (703, 20515), (705, 20539), (706, 20542),

Gene: Kumao_30 Start: 23701, Stop: 26268, Start Num: 83

Candidate Starts for Kumao_30:

(Start: 83 @23701 has 6 MA's), (109, 23767), (167, 23899), (177, 23923), (186, 23956), (217, 24031), (224, 24049), (237, 24100), (255, 24166), (292, 24370), (319, 24469), (335, 24502), (353, 24553), (388, 24676), (390, 24679), (440, 24856), (453, 24922), (466, 24988), (472, 25006), (476, 25021), (479, 25045), (512, 25150), (514, 25162), (540, 25300), (560, 25399), (562, 25405), (567, 25435), (578, 25477), (617, 25660), (618, 25663), (622, 25684), (623, 25690), (635, 25789), (642, 25828), (658, 25915), (680, 26014), (688, 26065), (690, 26083), (695, 26137), (705, 26212),

Gene: LaterM_27 Start: 20812, Stop: 23244, Start Num: 134

Candidate Starts for LaterM_27:

(Start: 134 @20812 has 92 MA's), (158, 20869), (174, 20911), (263, 21172), (267, 21193), (305, 21400), (318, 21433), (323, 21463), (347, 21535), (352, 21559), (365, 21604), (401, 21757), (416, 21814), (420, 21823), (430, 21859), (433, 21874), (467, 22054), (472, 22069), (487, 22138), (492, 22150), (508, 22213), (517, 22255), (525, 22294), (526, 22300), (527, 22309), (532, 22330), (544, 22390), (554, 22438), (555, 22441), (560, 22456), (571, 22498), (574, 22507), (583, 22564), (601, 22621), (603, 22630), (608, 22651), (613, 22696), (623, 22744), (635, 22840), (679, 23068), (696, 23215),

Gene: Latretium_19 Start: 18077, Stop: 20614, Start Num: 81

Candidate Starts for Latretium_19:

(76, 18065), (Start: 81 @18077 has 221 MA's), (92, 18098), (Start: 104 @18119 has 1 MA's), (121, 18158), (154, 18227), (159, 18236), (160, 18239), (167, 18257), (184, 18305), (240, 18464), (241, 18467), (252, 18497), (256, 18512), (273, 18590), (276, 18611), (277, 18614), (287, 18680), (302, 18755), (303, 18761), (305, 18779), (316, 18803), (318, 18809), (319, 18812), (335, 18845), (338, 18851), (350, 18881), (357, 18902), (365, 18932), (367, 18941), (397, 19049), (401, 19070), (402, 19073), (403, 19082), (404, 19088), (410, 19103), (411, 19106), (419, 19127), (432, 19169), (440, 19202), (469, 19343), (471, 19349), (483, 19403), (484, 19406), (495, 19433), (514, 19508), (516, 19520), (517, 19523), (528, 19589), (534, 19613), (537, 19634), (539, 19643), (552, 19703), (553, 19706), (562, 19742), (565, 19760), (574, 19781), (579, 19808), (594, 19865), (595, 19877), (598, 19895), (602, 19904), (604, 19916), (610, 19952), (615, 19982), (630, 20063), (635, 20117), (647, 20177), (652, 20219), (681, 20354), (685, 20378), (692, 20432), (703, 20522), (705, 20546), (706, 20549),

Gene: LeMond_26 Start: 20112, Stop: 22571, Start Num: 134

Candidate Starts for LeMond_26:

(Start: 134 @20112 has 92 MA's), (154, 20160), (196, 20283), (219, 20340), (224, 20352), (256, 20445), (261, 20469), (272, 20520), (303, 20682), (330, 20793), (340, 20832), (347, 20856), (380, 20979), (397, 21051), (417, 21138), (438, 21219), (458, 21321), (467, 21375), (481, 21435), (504, 21513), (505, 21525), (508, 21534), (517, 21576), (525, 21621), (527, 21636), (546, 21723), (551, 21747), (567, 21819), (581, 21876), (608, 21987), (610, 22011), (613, 22032), (624, 22083), (641, 22212), (667, 22317), (696, 22542),

Gene: Lemuria_23 Start: 20578, Stop: 23055, Start Num: 90

Candidate Starts for Lemuria_23:

(Start: 90 @20578 has 8 MA's), (131, 20686), (143, 20722), (154, 20740), (264, 21052), (318, 21295), (339, 21340), (368, 21442), (373, 21457), (391, 21523), (395, 21538), (405, 21589), (418, 21625), (438, 21691), (443, 21718), (483, 21916), (501, 21991), (547, 22216), (561, 22276), (572, 22321), (608, 22459), (624, 22555), (642, 22693), (693, 22993),

Gene: Leozinho_19 Start: 17243, Stop: 19780, Start Num: 81

Candidate Starts for Leozinho_19:

(76, 17231), (Start: 81 @17243 has 221 MA's), (92, 17264), (Start: 104 @17285 has 1 MA's), (121, 17324), (154, 17393), (159, 17402), (160, 17405), (167, 17423), (178, 17456), (184, 17471), (202, 17519), (240, 17630), (241, 17633), (252, 17663), (255, 17675), (256, 17678), (273, 17756), (277, 17780), (287, 17846), (295, 17891), (302, 17921), (303, 17927), (305, 17945), (316, 17969), (319, 17978), (335, 18011), (338, 18017), (350, 18047), (363, 18086), (365, 18098), (367, 18107), (373, 18122), (374, 18125), (401, 18236), (402, 18239), (403, 18248), (404, 18254), (410, 18269), (411, 18272), (419, 18293), (428, 18323), (432, 18335), (440, 18368), (462, 18479), (463, 18482), (469, 18509), (471, 18515), (483, 18569), (484, 18572), (514, 18674), (516, 18686), (517, 18689), (528, 18755), (534, 18779), (537, 18800), (539, 18809), (552, 18869), (553, 18872), (562, 18908), (565, 18926), (571, 18938), (574, 18947), (579, 18974), (595, 19043), (598, 19061), (602, 19070), (604, 19082), (610, 19118), (615, 19148), (620, 19169), (626, 19193), (630, 19229), (635, 19283), (647, 19343), (652, 19385), (671, 19463), (681, 19520), (685, 19544), (692, 19598), (696, 19646), (703, 19688), (705, 19712), (706, 19715),

Gene: Leperchaun_18 Start: 17387, Stop: 19939, Start Num: 81

Candidate Starts for Leperchaun_18:

(Start: 81 @17387 has 221 MA's), (92, 17408), (102, 17429), (121, 17468), (154, 17537), (159, 17546), (160, 17549), (167, 17567), (178, 17600), (184, 17615), (202, 17663), (240, 17774), (241, 17777), (253, 17810), (255, 17819), (256, 17822), (273, 17900), (282, 17966), (288, 17999), (299, 18053), (302, 18065), (316, 18113), (319, 18122), (322, 18131), (341, 18164), (357, 18206), (361, 18221), (370, 18251), (372, 18257), (373, 18260), (374, 18263), (380, 18290), (385, 18311), (396, 18344), (403, 18386), (404, 18392), (406, 18395), (410, 18407), (411, 18410), (421, 18437), (428, 18461),

(432, 18473), (440, 18506), (444, 18527), (460, 18599), (463, 18620), (489, 18731), (500, 18755), (501, 18758), (507, 18782), (514, 18812), (519, 18836), (525, 18872), (526, 18878), (527, 18887), (543, 18977), (547, 19001), (548, 19016), (560, 19058), (562, 19064), (575, 19109), (596, 19205), (598, 19220), (602, 19229), (607, 19253), (618, 19316), (678, 19658), (685, 19703), (696, 19805),

Gene: LilMcDreamy_27 Start: 29183, Stop: 31675, Start Num: 94

Candidate Starts for LilMcDreamy_27:

(Start: 94 @29183 has 4 MA's), (123, 29261), (156, 29336), (320, 29906), (328, 29930), (363, 30029), (368, 30053), (371, 30062), (380, 30095), (383, 30113), (398, 30161), (431, 30275), (438, 30302), (445, 30341), (462, 30437), (467, 30461), (483, 30527), (508, 30623), (516, 30662), (545, 30806), (554, 30857), (563, 30896), (566, 30905), (578, 30950), (605, 31061), (624, 31172), (635, 31271), (668, 31430), (683, 31532), (693, 31613),

Gene: LilMoolah_18 Start: 17531, Stop: 20056, Start Num: 81

Candidate Starts for LilMoolah_18:

(Start: 81 @17531 has 221 MA's), (92, 17552), (102, 17573), (121, 17612), (154, 17681), (159, 17690), (160, 17693), (167, 17711), (184, 17759), (202, 17807), (240, 17918), (241, 17921), (253, 17954), (256, 17966), (273, 18044), (282, 18110), (288, 18143), (299, 18197), (302, 18209), (318, 18263), (319, 18266), (322, 18275), (341, 18308), (355, 18347), (357, 18350), (361, 18365), (363, 18368), (370, 18395), (372, 18401), (373, 18404), (374, 18407), (380, 18434), (383, 18452), (385, 18455), (403, 18530), (410, 18551), (411, 18554), (421, 18581), (428, 18605), (440, 18650), (441, 18653), (450, 18704), (463, 18767), (465, 18776), (470, 18800), (501, 18905), (502, 18908), (514, 18959), (515, 18965), (516, 18971), (517, 18974), (525, 19019), (527, 19034), (533, 19061), (537, 19085), (547, 19136), (552, 19154), (553, 19157), (554, 19169), (571, 19223), (598, 19346), (611, 19409), (624, 19472), (632, 19547), (673, 19748), (702, 19958), (708, 19997), (709, 20000),

Gene: Lilac_28 Start: 21781, Stop: 24177, Start Num: 126

Candidate Starts for Lilac_28:

(Start: 126 @21781 has 125 MA's), (195, 21958), (206, 21979), (264, 22126), (294, 22300), (302, 22333), (309, 22369), (350, 22462), (367, 22522), (374, 22540), (406, 22672), (422, 22717), (453, 22849), (462, 22894), (478, 22954), (510, 23068), (514, 23089), (522, 23128), (525, 23149), (527, 23164), (560, 23314), (562, 23320), (565, 23338), (580, 23392), (598, 23476), (618, 23569), (661, 23815), (696, 24031), (706, 24115), (712, 24148),

Gene: Lilizi_28 Start: 21989, Stop: 24385, Start Num: 126

Candidate Starts for Lilizi_28:

(Start: 126 @21989 has 125 MA's), (195, 22166), (206, 22187), (264, 22334), (294, 22508), (302, 22541), (309, 22577), (350, 22670), (367, 22730), (374, 22748), (406, 22880), (422, 22925), (453, 23057), (462, 23102), (478, 23162), (510, 23276), (514, 23297), (522, 23336), (525, 23357), (527, 23372), (560, 23522), (562, 23528), (565, 23546), (580, 23600), (598, 23684), (618, 23777), (661, 24023), (696, 24239), (706, 24323), (712, 24356),

Gene: Lilpickle_25 Start: 21491, Stop: 23887, Start Num: 126

Candidate Starts for Lilpickle_25:

(Start: 126 @21491 has 125 MA's), (195, 21668), (206, 21689), (264, 21836), (294, 22010), (302, 22043), (309, 22079), (350, 22172), (367, 22232), (374, 22250), (406, 22382), (422, 22427), (453, 22559), (462, 22604), (478, 22664), (510, 22778), (514, 22799), (522, 22838), (525, 22859), (527, 22874), (560, 23024), (562, 23030), (565, 23048), (580, 23102), (598, 23186), (618, 23279), (661, 23525), (696, 23741), (706, 23825), (712, 23858),

Gene: LindNT_27 Start: 20846, Stop: 23278, Start Num: 134

Candidate Starts for LindNT_27:

(Start: 134 @20846 has 92 MA's), (174, 20945), (263, 21206), (305, 21434), (318, 21467), (323, 21497), (347, 21569), (352, 21593), (365, 21638), (401, 21791), (412, 21836), (416, 21848), (420, 21857), (430, 21893), (433, 21908), (467, 22088), (472, 22103), (487, 22172), (492, 22184), (508, 22247), (517, 22289), (525, 22328), (526, 22334), (527, 22343), (532, 22364), (544, 22424), (574, 22541), (581, 22583), (601, 22655), (603, 22664), (608, 22685), (619, 22757), (623, 22778), (635, 22874), (679, 23102), (696, 23249),

Gene: LittleE_39 Start: 30972, Stop: 33527, Start Num: 81

Candidate Starts for LittleE_39:

(Start: 81 @30972 has 221 MA's), (167, 31167), (178, 31203), (184, 31218), (202, 31266), (240, 31377), (241, 31380), (252, 31410), (256, 31425), (273, 31503), (277, 31527), (287, 31593), (295, 31638), (302, 31668), (303, 31674), (305, 31692), (316, 31716), (319, 31725), (335, 31758), (338, 31764), (350, 31794), (363, 31833), (365, 31845), (367, 31854), (373, 31869), (374, 31872), (401, 31983), (402, 31986), (403, 31995), (404, 32001), (410, 32016), (411, 32019), (428, 32070), (432, 32082), (440, 32115), (453, 32181), (462, 32226), (463, 32229), (469, 32256), (471, 32262), (483, 32316), (484, 32319), (511, 32406), (514, 32421), (516, 32433), (517, 32436), (528, 32502), (537, 32547), (539, 32556), (552, 32616), (553, 32619), (562, 32655), (565, 32673), (571, 32685), (574, 32694), (579, 32721), (595, 32790), (598, 32808), (602, 32817), (604, 32829), (610, 32865), (615, 32895), (620, 32916), (626, 32940), (630, 32976), (635, 33030), (647, 33090), (652, 33132), (681, 33267), (685, 33291), (692, 33345), (696, 33393), (703, 33435), (705, 33459), (706, 33462),

Gene: LittleShirley_19 Start: 17218, Stop: 19755, Start Num: 81

Candidate Starts for LittleShirley_19:

(Start: 81 @17218 has 221 MA's), (92, 17239), (Start: 104 @17260 has 1 MA's), (121, 17299), (154, 17368), (159, 17377), (160, 17380), (167, 17398), (184, 17446), (238, 17599), (241, 17608), (256, 17653), (276, 17752), (277, 17755), (287, 17821), (302, 17896), (303, 17902), (305, 17920), (316, 17944), (318, 17950), (319, 17953), (335, 17986), (338, 17992), (350, 18022), (357, 18043), (365, 18073), (367, 18082), (373, 18097), (374, 18100), (401, 18211), (402, 18214), (403, 18223), (404, 18229), (410, 18244), (411, 18247), (419, 18268), (428, 18298), (432, 18310), (440, 18343), (462, 18454), (463, 18457), (469, 18484), (471, 18490), (483, 18544), (484, 18547), (514, 18649), (516, 18661), (517, 18664), (528, 18730), (534, 18754), (537, 18775), (539, 18784), (552, 18844), (553, 18847), (562, 18883), (565, 18901), (571, 18913), (574, 18922), (579, 18949), (594, 19006), (595, 19018), (598, 19036), (602, 19045), (604, 19057), (610, 19093), (615, 19123), (618, 19132), (620, 19144), (630, 19204), (635, 19258), (647, 19318), (652, 19360), (681, 19495), (685, 19519), (692, 19573), (696, 19621), (703, 19663), (705, 19687), (706, 19690),

Gene: Lizziana_18 Start: 17406, Stop: 19931, Start Num: 81

Candidate Starts for Lizziana_18:

(Start: 81 @17406 has 221 MA's), (121, 17487), (154, 17556), (159, 17565), (160, 17568), (167, 17586), (184, 17634), (201, 17679), (240, 17793), (241, 17796), (244, 17808), (253, 17829), (255, 17838), (256, 17841), (267, 17889), (273, 17919), (282, 17985), (288, 18018), (295, 18054), (301, 18078), (318, 18138), (319, 18141), (326, 18159), (355, 18222), (357, 18225), (363, 18243), (367, 18264), (374, 18282), (380, 18309), (385, 18330), (396, 18363), (404, 18411), (406, 18414), (410, 18426), (411, 18429), (421, 18456), (428, 18480), (440, 18525), (465, 18651), (470, 18675), (502, 18783), (514, 18834), (516, 18846), (517, 18849), (525, 18894), (527, 18909), (533, 18936), (537, 18960), (547, 19011), (552, 19029), (553, 19032), (554, 19044), (571, 19098), (580, 19140), (611, 19284), (622, 19338), (623, 19344), (624, 19347), (628, 19383), (629, 19386), (631, 19395), (632, 19422), (673, 19623), (696, 19794), (702, 19833), (708, 19872), (709, 19875),

Gene: Llama_18 Start: 17634, Stop: 20171, Start Num: 81

Candidate Starts for Llama_18:

(Start: 81 @17634 has 221 MA's), (92, 17655), (Start: 104 @17676 has 1 MA's), (121, 17715), (154, 17784), (159, 17793), (160, 17796), (167, 17814), (184, 17862), (240, 18021), (241, 18024), (255,

18066), (256, 18069), (273, 18147), (276, 18168), (277, 18171), (287, 18237), (288, 18246), (295, 18282), (302, 18312), (303, 18318), (316, 18360), (318, 18366), (319, 18369), (335, 18402), (338, 18408), (350, 18438), (357, 18459), (365, 18489), (367, 18498), (397, 18606), (400, 18618), (401, 18627), (402, 18630), (403, 18639), (404, 18645), (410, 18660), (411, 18663), (419, 18684), (432, 18726), (440, 18759), (469, 18900), (471, 18906), (483, 18960), (484, 18963), (495, 18990), (514, 19065), (516, 19077), (517, 19080), (528, 19146), (533, 19167), (534, 19170), (537, 19191), (547, 19242), (552, 19260), (553, 19263), (560, 19293), (565, 19317), (571, 19329), (595, 19434), (598, 19452), (602, 19461), (604, 19473), (610, 19509), (615, 19539), (620, 19560), (626, 19584), (630, 19620), (647, 19734), (652, 19776), (671, 19854), (681, 19911), (685, 19935), (692, 19989), (696, 20037), (703, 20079), (705, 20103), (706, 20106),

Gene: Llij_18 Start: 17383, Stop: 19920, Start Num: 81

Candidate Starts for Llij_18:

(Start: 81 @17383 has 221 MA's), (128, 17473), (154, 17533), (159, 17542), (160, 17545), (167, 17563), (184, 17611), (202, 17659), (238, 17764), (240, 17770), (241, 17773), (255, 17815), (256, 17818), (277, 17920), (287, 17986), (295, 18031), (302, 18061), (303, 18067), (305, 18085), (316, 18109), (319, 18118), (335, 18151), (338, 18157), (357, 18208), (363, 18226), (365, 18238), (367, 18247), (373, 18262), (375, 18268), (401, 18376), (403, 18388), (404, 18394), (410, 18409), (411, 18412), (419, 18433), (428, 18463), (432, 18475), (440, 18508), (453, 18574), (462, 18619), (463, 18622), (469, 18649), (471, 18655), (483, 18709), (484, 18712), (495, 18739), (514, 18814), (516, 18826), (517, 18829), (528, 18895), (533, 18916), (534, 18919), (539, 18949), (547, 18991), (552, 19009), (553, 19012), (560, 19042), (565, 19066), (571, 19078), (574, 19087), (595, 19183), (598, 19201), (602, 19210), (604, 19222), (615, 19288), (618, 19297), (620, 19309), (630, 19369), (652, 19525), (681, 19660), (685, 19684), (692, 19738), (700, 19807), (705, 19852), (706, 19855),

Gene: Llorens_27 Start: 20912, Stop: 23344, Start Num: 134

Candidate Starts for Llorens_27:

(Start: 134 @20912 has 92 MA's), (174, 21011), (263, 21272), (267, 21293), (305, 21500), (318, 21533), (323, 21563), (347, 21635), (352, 21659), (401, 21857), (412, 21902), (416, 21914), (420, 21923), (433, 21974), (467, 22154), (472, 22169), (487, 22238), (492, 22250), (508, 22313), (517, 22355), (525, 22394), (526, 22400), (527, 22409), (532, 22430), (544, 22490), (574, 22607), (581, 22649), (601, 22721), (603, 22730), (608, 22751), (619, 22823), (623, 22844), (635, 22940), (665, 23087), (679, 23168), (696, 23315),

Gene: Lorde_19 Start: 17219, Stop: 19756, Start Num: 81

Candidate Starts for Lorde_19:

(76, 17207), (Start: 81 @17219 has 221 MA's), (92, 17240), (Start: 104 @17261 has 1 MA's), (121, 17300), (154, 17369), (159, 17378), (160, 17381), (167, 17399), (178, 17432), (184, 17447), (202, 17495), (238, 17600), (241, 17609), (255, 17651), (256, 17654), (273, 17732), (277, 17756), (287, 17822), (295, 17867), (302, 17897), (303, 17903), (305, 17921), (316, 17945), (319, 17954), (335, 17987), (338, 17993), (350, 18023), (363, 18062), (365, 18074), (367, 18083), (373, 18098), (374, 18101), (401, 18212), (403, 18224), (404, 18230), (410, 18245), (411, 18248), (419, 18269), (428, 18299), (432, 18311), (440, 18344), (453, 18410), (462, 18455), (463, 18458), (469, 18485), (471, 18491), (483, 18545), (484, 18548), (495, 18575), (514, 18650), (516, 18662), (517, 18665), (528, 18731), (534, 18755), (539, 18785), (547, 18827), (552, 18845), (553, 18848), (562, 18884), (565, 18902), (574, 18923), (579, 18950), (595, 19019), (598, 19037), (602, 19046), (604, 19058), (610, 19094), (615, 19124), (618, 19133), (620, 19145), (630, 19205), (635, 19259), (647, 19319), (652, 19361), (671, 19439), (681, 19496), (685, 19520), (692, 19574), (696, 19622), (703, 19664), (705, 19688), (706, 19691),

Gene: Lucky2013_36 Start: 27869, Stop: 30376, Start Num: 81

Candidate Starts for Lucky2013_36:

(Start: 81 @27869 has 221 MA's), (167, 28064), (178, 28100), (184, 28115), (224, 28202), (229, 28217), (256, 28292), (260, 28304), (267, 28331), (285, 28436), (292, 28475), (295, 28484), (302, 28508), (303, 28514), (305, 28532), (312, 28550), (319, 28565), (322, 28574), (326, 28583), (335, 28598), (346, 28625), (350, 28634), (363, 28673), (365, 28685), (367, 28694), (391, 28778), (411, 28859), (422, 28889), (423, 28892), (432, 28922), (439, 28949), (441, 28958), (450, 29009), (451, 29018), (453, 29021), (461, 29057), (465, 29078), (474, 29114), (515, 29267), (525, 29321), (534, 29366), (536, 29384), (537, 29387), (545, 29426), (578, 29573), (580, 29582), (596, 29651), (598, 29666), (630, 29831), (639, 29918), (649, 29966), (661, 30017), (677, 30095), (707, 30317), (709, 30320), (712, 30347),

Gene: LunaBlu_19 Start: 17477, Stop: 20014, Start Num: 81

Candidate Starts for LunaBlu_19:

(Start: 81 @17477 has 221 MA's), (128, 17567), (154, 17627), (159, 17636), (160, 17639), (167, 17657), (178, 17690), (184, 17705), (202, 17753), (240, 17864), (241, 17867), (252, 17897), (256, 17912), (273, 17990), (287, 18080), (295, 18125), (302, 18155), (303, 18161), (305, 18179), (316, 18203), (319, 18212), (335, 18245), (338, 18251), (350, 18281), (363, 18320), (365, 18332), (367, 18341), (373, 18356), (374, 18359), (401, 18470), (403, 18482), (404, 18488), (410, 18503), (411, 18506), (419, 18527), (428, 18557), (432, 18569), (440, 18602), (453, 18668), (462, 18713), (463, 18716), (469, 18743), (471, 18749), (483, 18803), (484, 18806), (514, 18908), (516, 18920), (517, 18923), (528, 18989), (534, 19013), (539, 19043), (552, 19103), (553, 19106), (562, 19142), (565, 19160), (571, 19172), (574, 19181), (579, 19208), (595, 19277), (598, 19295), (602, 19304), (604, 19316), (610, 19352), (615, 19382), (620, 19403), (626, 19427), (630, 19463), (635, 19517), (647, 19577), (652, 19619), (671, 19697), (681, 19754), (685, 19778), (692, 19832), (696, 19880), (703, 19922), (705, 19946), (706, 19949),

Gene: LunaStella_20 Start: 17940, Stop: 20417, Start Num: 85

Candidate Starts for LunaStella_20:

(Start: 85 @17940 has 3 MA's), (92, 17952), (127, 18015), (138, 18042), (164, 18096), (167, 18105), (170, 18111), (178, 18138), (189, 18171), (224, 18243), (229, 18258), (241, 18294), (243, 18303), (254, 18321), (260, 18345), (266, 18369), (292, 18516), (295, 18525), (302, 18549), (305, 18573), (316, 18597), (318, 18603), (326, 18624), (338, 18645), (350, 18675), (359, 18705), (365, 18726), (391, 18819), (396, 18834), (397, 18843), (399, 18852), (401, 18864), (402, 18867), (428, 18951), (429, 18954), (432, 18963), (439, 18990), (441, 18999), (447, 19038), (451, 19059), (453, 19062), (461, 19098), (465, 19119), (483, 19197), (484, 19200), (504, 19254), (516, 19314), (532, 19401), (534, 19407), (536, 19425), (537, 19428), (545, 19464), (557, 19518), (560, 19527), (578, 19605), (581, 19623), (589, 19659), (591, 19662), (595, 19680), (596, 19683), (598, 19698), (610, 19755), (612, 19767), (626, 19830), (630, 19863), (639, 19950), (649, 19998), (651, 20022), (657, 20049), (661, 20058), (670, 20097), (677, 20136), (681, 20160), (684, 20181), (696, 20277), (700, 20298), (709, 20361), (712, 20388), (713, 20397),

Gene: Lunahalos_27 Start: 20912, Stop: 23344, Start Num: 134

Candidate Starts for Lunahalos_27:

(Start: 134 @20912 has 92 MA's), (174, 21011), (263, 21272), (267, 21293), (305, 21500), (318, 21533), (323, 21563), (347, 21635), (352, 21659), (401, 21857), (412, 21902), (416, 21914), (420, 21923), (433, 21974), (467, 22154), (472, 22169), (487, 22238), (492, 22250), (508, 22313), (517, 22355), (525, 22394), (526, 22400), (527, 22409), (532, 22430), (544, 22490), (574, 22607), (581, 22649), (601, 22721), (603, 22730), (608, 22751), (619, 22823), (623, 22844), (635, 22940), (665, 23087), (679, 23168), (696, 23315),

Gene: MISSy_25 Start: 21796, Stop: 24192, Start Num: 126

Candidate Starts for MISSy_25:

(Start: 126 @21796 has 125 MA's), (195, 21973), (206, 21994), (264, 22141), (288, 22282), (294, 22315), (302, 22348), (309, 22384), (350, 22477), (367, 22537), (374, 22555), (406, 22687), (422,

22732), (453, 22864), (462, 22909), (478, 22969), (510, 23083), (514, 23104), (522, 23143), (525, 23164), (527, 23179), (560, 23329), (562, 23335), (565, 23353), (580, 23407), (598, 23491), (618, 23584), (661, 23830), (696, 24046), (706, 24130), (712, 24163),

Gene: MOOREtheMARYer_23 Start: 20802, Stop: 23264, Start Num: 90

Candidate Starts for MOOREtheMARYer_23:

(Start: 90 @20802 has 8 MA's), (178, 21030), (193, 21072), (204, 21105), (244, 21210), (285, 21393), (298, 21453), (343, 21576), (353, 21615), (367, 21663), (368, 21666), (395, 21762), (400, 21783), (413, 21837), (438, 21918), (440, 21927), (445, 21954), (467, 22074), (475, 22101), (488, 22161), (504, 22209), (506, 22224), (520, 22290), (527, 22332), (547, 22425), (626, 22770), (630, 22809), (639, 22896), (652, 22968), (680, 23097), (693, 23202), (697, 23247),

Gene: MPhalcon_25 Start: 21790, Stop: 24186, Start Num: 126

Candidate Starts for MPhalcon_25:

(Start: 126 @21790 has 125 MA's), (195, 21967), (206, 21988), (264, 22135), (288, 22276), (294, 22309), (302, 22342), (309, 22378), (350, 22471), (367, 22531), (374, 22549), (406, 22681), (422, 22726), (453, 22858), (462, 22903), (478, 22963), (510, 23077), (514, 23098), (522, 23137), (525, 23158), (527, 23173), (560, 23323), (562, 23329), (565, 23347), (580, 23401), (598, 23485), (618, 23578), (661, 23824), (696, 24040), (706, 24124), (712, 24157),

Gene: MacKat_28 Start: 20889, Stop: 23321, Start Num: 134

Candidate Starts for MacKat_28:

(Start: 134 @20889 has 92 MA's), (174, 20988), (263, 21249), (267, 21270), (305, 21477), (318, 21510), (323, 21540), (347, 21612), (352, 21636), (365, 21681), (401, 21834), (412, 21879), (416, 21891), (420, 21900), (433, 21951), (467, 22131), (472, 22146), (487, 22215), (492, 22227), (508, 22290), (517, 22332), (525, 22371), (526, 22377), (527, 22386), (532, 22407), (544, 22467), (574, 22584), (581, 22626), (601, 22698), (603, 22707), (608, 22728), (619, 22800), (623, 22821), (635, 22917), (679, 23145), (696, 23292),

Gene: MadKillah_59 Start: 35875, Stop: 38385, Start Num: 96

Candidate Starts for MadKillah_59:

(Start: 96 @35875 has 28 MA's), (108, 35908), (136, 35977), (137, 35980), (147, 36004), (160, 36028), (170, 36052), (178, 36085), (245, 36292), (248, 36304), (249, 36307), (281, 36454), (282, 36484), (287, 36508), (295, 36538), (296, 36541), (302, 36568), (305, 36592), (318, 36622), (344, 36679), (351, 36703), (363, 36739), (365, 36751), (373, 36775), (374, 36778), (382, 36820), (410, 36916), (411, 36919), (475, 37174), (514, 37318), (525, 37378), (536, 37450), (537, 37453), (558, 37549), (598, 37723), (604, 37744), (622, 37837), (625, 37849), (635, 37939), (650, 38014), (670, 38059), (699, 38260), (704, 38314), (709, 38329),

Gene: MadMen_19 Start: 17637, Stop: 20129, Start Num: 81

Candidate Starts for MadMen_19:

(Start: 81 @17637 has 221 MA's), (92, 17658), (Start: 104 @17679 has 1 MA's), (122, 17718), (154, 17787), (159, 17796), (160, 17799), (167, 17817), (178, 17850), (189, 17883), (202, 17916), (224, 17955), (229, 17970), (241, 18006), (243, 18015), (254, 18033), (260, 18057), (266, 18081), (292, 18228), (295, 18237), (302, 18261), (305, 18285), (316, 18309), (318, 18315), (326, 18336), (338, 18357), (350, 18387), (359, 18417), (365, 18438), (391, 18531), (396, 18546), (397, 18555), (401, 18576), (402, 18579), (428, 18663), (429, 18666), (432, 18675), (439, 18702), (441, 18711), (447, 18750), (451, 18771), (453, 18774), (461, 18810), (465, 18831), (483, 18909), (484, 18912), (504, 18966), (516, 19026), (534, 19119), (536, 19137), (537, 19140), (545, 19176), (557, 19230), (560, 19239), (578, 19317), (581, 19335), (589, 19371), (591, 19374), (595, 19392), (596, 19395), (598, 19410), (610, 19467), (612, 19479), (630, 19575), (639, 19662), (649, 19710), (651, 19734), (661, 19770), (670, 19809), (677, 19848), (681, 19872), (684, 19893), (696, 19989), (700, 20010), (709, 20073), (712, 20100), (713, 20109),

Gene: MadamMonkfish_26 Start: 21702, Stop: 24098, Start Num: 126

Candidate Starts for MadamMonkfish_26:

(Start: 126 @21702 has 125 MA's), (195, 21879), (206, 21900), (264, 22047), (294, 22221), (302, 22254), (309, 22290), (350, 22383), (367, 22443), (374, 22461), (406, 22593), (422, 22638), (453, 22770), (462, 22815), (478, 22875), (510, 22989), (514, 23010), (522, 23049), (525, 23070), (527, 23085), (560, 23235), (562, 23241), (565, 23259), (580, 23313), (598, 23397), (618, 23490), (661, 23736), (696, 23952), (706, 24036), (712, 24069),

Gene: Madiba_19 Start: 17273, Stop: 19762, Start Num: 81

Candidate Starts for Madiba_19:

(Start: 81 @17273 has 221 MA's), (92, 17294), (Start: 104 @17315 has 1 MA's), (122, 17354), (154, 17423), (159, 17432), (160, 17435), (167, 17453), (184, 17501), (229, 17603), (241, 17639), (242, 17645), (243, 17648), (254, 17666), (260, 17690), (266, 17714), (279, 17777), (292, 17861), (295, 17870), (302, 17894), (305, 17918), (316, 17942), (318, 17948), (326, 17969), (338, 17990), (350, 18020), (359, 18050), (365, 18071), (391, 18164), (396, 18179), (397, 18188), (401, 18209), (402, 18212), (428, 18296), (429, 18299), (432, 18308), (439, 18335), (441, 18344), (447, 18383), (451, 18404), (453, 18407), (461, 18443), (465, 18464), (483, 18542), (484, 18545), (504, 18599), (516, 18659), (534, 18752), (536, 18770), (537, 18773), (545, 18809), (557, 18863), (560, 18872), (578, 18950), (581, 18968), (589, 19004), (591, 19007), (595, 19025), (596, 19028), (598, 19043), (610, 19100), (612, 19112), (630, 19208), (639, 19295), (649, 19343), (651, 19367), (657, 19394), (661, 19403), (670, 19442), (677, 19481), (681, 19505), (684, 19526), (696, 19622), (700, 19643), (709, 19706), (712, 19733), (713, 19742),

Gene: Mahavrat_18 Start: 17394, Stop: 19931, Start Num: 81

Candidate Starts for Mahavrat_18:

(Start: 81 @17394 has 221 MA's), (92, 17415), (Start: 104 @17436 has 1 MA's), (121, 17475), (154, 17544), (159, 17553), (160, 17556), (167, 17574), (178, 17607), (184, 17622), (240, 17781), (241, 17784), (256, 17829), (273, 17907), (277, 17931), (287, 17997), (302, 18072), (303, 18078), (316, 18120), (318, 18126), (319, 18129), (335, 18162), (338, 18168), (350, 18198), (357, 18219), (365, 18249), (367, 18258), (397, 18366), (400, 18378), (401, 18387), (402, 18390), (403, 18399), (404, 18405), (410, 18420), (411, 18423), (419, 18444), (432, 18486), (440, 18519), (462, 18630), (463, 18633), (469, 18660), (471, 18666), (483, 18720), (484, 18723), (495, 18750), (498, 18759), (514, 18825), (516, 18837), (517, 18840), (528, 18906), (533, 18927), (534, 18930), (537, 18951), (547, 19002), (552, 19020), (553, 19023), (560, 19053), (565, 19077), (571, 19089), (574, 19098), (595, 19194), (598, 19212), (602, 19221), (604, 19233), (610, 19269), (615, 19299), (620, 19320), (626, 19344), (630, 19380), (647, 19494), (652, 19536), (681, 19671), (685, 19695), (692, 19749), (700, 19818), (705, 19863), (706, 19866), (708, 19872),

Gene: Manda_27 Start: 22769, Stop: 25165, Start Num: 126

Candidate Starts for Manda_27:

(Start: 126 @22769 has 125 MA's), (195, 22946), (206, 22967), (264, 23114), (288, 23255), (294, 23288), (302, 23321), (309, 23357), (350, 23450), (367, 23510), (374, 23528), (406, 23660), (422, 23705), (453, 23837), (462, 23882), (478, 23942), (510, 24056), (514, 24077), (522, 24116), (525, 24137), (527, 24152), (560, 24302), (562, 24308), (565, 24326), (580, 24380), (598, 24464), (618, 24557), (661, 24803), (696, 25019), (706, 25103), (712, 25136),

Gene: Mandlovu_18 Start: 17495, Stop: 20032, Start Num: 81

Candidate Starts for Mandlovu_18:

(Start: 81 @17495 has 221 MA's), (92, 17516), (Start: 104 @17537 has 1 MA's), (121, 17576), (154, 17645), (159, 17654), (160, 17657), (167, 17675), (184, 17723), (240, 17882), (241, 17885), (255, 17927), (256, 17930), (273, 18008), (276, 18029), (277, 18032), (287, 18098), (302, 18173), (303, 18179), (316, 18221), (318, 18227), (319, 18230), (335, 18263), (338, 18269), (350, 18299), (357,

18320), (365, 18350), (367, 18359), (397, 18467), (400, 18479), (401, 18488), (402, 18491), (403, 18500), (404, 18506), (410, 18521), (411, 18524), (419, 18545), (432, 18587), (440, 18620), (469, 18761), (471, 18767), (483, 18821), (484, 18824), (495, 18851), (514, 18926), (516, 18938), (517, 18941), (528, 19007), (534, 19031), (537, 19052), (539, 19061), (552, 19121), (553, 19124), (562, 19160), (565, 19178), (574, 19199), (579, 19226), (595, 19295), (598, 19313), (602, 19322), (604, 19334), (610, 19370), (615, 19400), (630, 19481), (647, 19595), (652, 19637), (681, 19772), (685, 19796), (692, 19850), (705, 19964), (706, 19967),

Gene: Mantra_18 Start: 17496, Stop: 20033, Start Num: 81

Candidate Starts for Mantra_18:

(Start: 81 @17496 has 221 MA's), (92, 17517), (Start: 104 @17538 has 1 MA's), (121, 17577), (154, 17646), (159, 17655), (160, 17658), (167, 17676), (184, 17724), (238, 17877), (241, 17886), (256, 17931), (276, 18030), (277, 18033), (287, 18099), (302, 18174), (303, 18180), (305, 18198), (316, 18222), (318, 18228), (319, 18231), (335, 18264), (338, 18270), (350, 18300), (357, 18321), (365, 18351), (367, 18360), (373, 18375), (374, 18378), (401, 18489), (402, 18492), (403, 18501), (404, 18507), (410, 18522), (411, 18525), (419, 18546), (428, 18576), (432, 18588), (440, 18621), (462, 18732), (463, 18735), (469, 18762), (471, 18768), (483, 18822), (484, 18825), (511, 18912), (514, 18927), (516, 18939), (517, 18942), (528, 19008), (534, 19032), (537, 19053), (539, 19062), (552, 19122), (553, 19125), (562, 19161), (565, 19179), (571, 19191), (574, 19200), (579, 19227), (594, 19284), (595, 19296), (598, 19314), (602, 19323), (604, 19335), (610, 19371), (615, 19401), (618, 19410), (620, 19422), (630, 19482), (635, 19536), (647, 19596), (652, 19638), (681, 19773), (685, 19797), (692, 19851), (696, 19899), (703, 19941), (705, 19965), (706, 19968),

Gene: Maravista_18 Start: 17343, Stop: 19880, Start Num: 81

Candidate Starts for Maravista_18:

(76, 17331), (Start: 81 @17343 has 221 MA's), (92, 17364), (Start: 104 @17385 has 1 MA's), (121, 17424), (154, 17493), (159, 17502), (160, 17505), (167, 17523), (178, 17556), (184, 17571), (202, 17619), (240, 17730), (241, 17733), (252, 17763), (255, 17775), (256, 17778), (273, 17856), (277, 17880), (287, 17946), (295, 17991), (302, 18021), (303, 18027), (305, 18045), (316, 18069), (319, 18078), (335, 18111), (338, 18117), (350, 18147), (363, 18186), (365, 18198), (367, 18207), (373, 18222), (374, 18225), (401, 18336), (402, 18339), (403, 18348), (404, 18354), (410, 18369), (411, 18372), (419, 18393), (428, 18423), (432, 18435), (440, 18468), (462, 18579), (463, 18582), (469, 18609), (471, 18615), (483, 18669), (484, 18672), (514, 18774), (516, 18786), (517, 18789), (528, 18855), (534, 18879), (537, 18900), (539, 18909), (552, 18969), (553, 18972), (562, 19008), (565, 19026), (571, 19038), (574, 19047), (579, 19074), (595, 19143), (598, 19161), (602, 19170), (604, 19182), (610, 19218), (615, 19248), (620, 19269), (626, 19293), (630, 19329), (635, 19383), (647, 19443), (652, 19485), (681, 19620), (685, 19644), (692, 19698), (696, 19746), (700, 19767), (703, 19788), (705, 19812), (706, 19815),

Gene: MarkPhew_27 Start: 19997, Stop: 22450, Start Num: 134

Candidate Starts for MarkPhew_27:

(Start: 134 @19997 has 92 MA's), (154, 20045), (196, 20168), (219, 20225), (224, 20237), (261, 20354), (272, 20405), (293, 20534), (303, 20567), (330, 20678), (332, 20687), (333, 20696), (340, 20717), (352, 20765), (380, 20867), (417, 21026), (438, 21107), (458, 21209), (505, 21413), (508, 21422), (517, 21464), (525, 21509), (527, 21524), (567, 21707), (581, 21764), (608, 21866), (610, 21890), (621, 21947), (624, 21962), (641, 22091), (667, 22196), (695, 22415),

Gene: Marker_19 Start: 17246, Stop: 19783, Start Num: 81

Candidate Starts for Marker_19:

(Start: 81 @17246 has 221 MA's), (92, 17267), (Start: 104 @17288 has 1 MA's), (121, 17327), (154, 17396), (159, 17405), (160, 17408), (167, 17426), (184, 17474), (238, 17627), (241, 17636), (256, 17681), (276, 17780), (277, 17783), (287, 17849), (302, 17924), (303, 17930), (305, 17948), (316, 17972), (319, 17981), (335, 18014), (338, 18020), (350, 18050), (357, 18071), (363, 18089), (365,

18101), (367, 18110), (373, 18125), (374, 18128), (401, 18239), (402, 18242), (403, 18251), (404, 18257), (410, 18272), (411, 18275), (419, 18296), (428, 18326), (432, 18338), (440, 18371), (462, 18482), (463, 18485), (469, 18512), (471, 18518), (483, 18572), (484, 18575), (501, 18623), (511, 18662), (514, 18677), (516, 18689), (517, 18692), (521, 18713), (528, 18758), (534, 18782), (539, 18812), (547, 18854), (552, 18872), (553, 18875), (562, 18911), (565, 18929), (571, 18941), (574, 18950), (580, 18983), (595, 19046), (598, 19064), (602, 19073), (604, 19085), (615, 19151), (620, 19172), (626, 19196), (630, 19232), (635, 19286), (647, 19346), (652, 19388), (671, 19466), (681, 19523), (685, 19547), (692, 19601), (696, 19649), (703, 19691), (705, 19715), (706, 19718),

Gene: Marshawn_28 Start: 20676, Stop: 23132, Start Num: 134

Candidate Starts for Marshawn_28:

(Start: 134 @20676 has 92 MA's), (143, 20703), (174, 20775), (196, 20847), (219, 20904), (224, 20916), (235, 20949), (257, 21015), (261, 21033), (267, 21057), (268, 21060), (272, 21084), (283, 21156), (303, 21246), (312, 21282), (332, 21366), (347, 21420), (352, 21441), (353, 21447), (365, 21486), (380, 21543), (417, 21702), (429, 21741), (438, 21783), (442, 21801), (458, 21885), (462, 21915), (467, 21939), (477, 21972), (479, 21993), (504, 22077), (508, 22098), (517, 22140), (526, 22191), (527, 22200), (534, 22227), (546, 22287), (562, 22353), (565, 22374), (567, 22383), (580, 22431), (589, 22470), (601, 22515), (608, 22545), (613, 22590), (624, 22641), (626, 22647), (641, 22770), (656, 22839), (668, 22881), (694, 23067), (695, 23097),

Gene: Marshmallow_26 Start: 22283, Stop: 24679, Start Num: 126

Candidate Starts for Marshmallow_26:

(Start: 126 @22283 has 125 MA's), (195, 22460), (206, 22481), (264, 22628), (288, 22769), (294, 22802), (302, 22835), (309, 22871), (350, 22964), (367, 23024), (374, 23042), (396, 23123), (453, 23351), (462, 23396), (514, 23591), (515, 23597), (517, 23606), (525, 23651), (527, 23666), (562, 23822), (565, 23840), (568, 23849), (598, 23978), (599, 23981), (634, 24191), (636, 24203), (661, 24317), (696, 24533), (706, 24617), (710, 24641), (712, 24650),

Gene: Martik_18 Start: 17406, Stop: 19958, Start Num: 81

Candidate Starts for Martik_18:

(Start: 81 @17406 has 221 MA's), (121, 17487), (154, 17556), (159, 17565), (160, 17568), (167, 17586), (184, 17634), (201, 17679), (240, 17793), (241, 17796), (244, 17808), (253, 17829), (255, 17838), (256, 17841), (267, 17889), (273, 17919), (282, 17985), (288, 18018), (295, 18054), (301, 18078), (318, 18138), (319, 18141), (326, 18159), (355, 18222), (357, 18225), (363, 18243), (367, 18264), (374, 18282), (380, 18309), (385, 18330), (396, 18363), (403, 18405), (404, 18411), (406, 18414), (411, 18429), (421, 18456), (422, 18459), (428, 18480), (432, 18492), (440, 18525), (460, 18618), (483, 18726), (489, 18750), (495, 18756), (500, 18774), (501, 18777), (507, 18801), (514, 18831), (519, 18855), (525, 18891), (526, 18897), (527, 18906), (533, 18933), (543, 18996), (547, 19020), (548, 19035), (560, 19077), (575, 19128), (596, 19224), (598, 19239), (602, 19248), (607, 19272), (618, 19335), (626, 19371), (678, 19677), (685, 19722), (696, 19824),

Gene: MaryV_43 Start: 28332, Stop: 30899, Start Num: 83

Candidate Starts for MaryV_43:

(Start: 83 @28332 has 6 MA's), (109, 28401), (164, 28524), (166, 28530), (167, 28533), (177, 28557), (182, 28578), (237, 28734), (239, 28740), (241, 28746), (249, 28776), (250, 28782), (256, 28803), (258, 28812), (271, 28872), (284, 28950), (303, 29049), (310, 29082), (318, 29097), (319, 29100), (338, 29139), (357, 29190), (363, 29208), (367, 29229), (370, 29235), (378, 29262), (382, 29289), (401, 29358), (408, 29382), (415, 29403), (422, 29424), (427, 29433), (432, 29454), (440, 29487), (441, 29490), (450, 29541), (453, 29553), (466, 29619), (472, 29637), (479, 29676), (514, 29793), (523, 29838), (533, 29895), (537, 29919), (539, 29928), (542, 29946), (552, 29991), (560, 30024), (567, 30060), (609, 30234), (610, 30252), (611, 30258), (623, 30315), (680, 30639), (682, 30657), (690, 30708), (697, 30771), (705, 30846),

Gene: Mattes_18 Start: 17397, Stop: 19922, Start Num: 81

Candidate Starts for Mattes_18:

(Start: 81 @17397 has 221 MA's), (92, 17418), (102, 17439), (121, 17478), (154, 17547), (159, 17556), (160, 17559), (167, 17577), (184, 17625), (202, 17673), (240, 17784), (241, 17787), (253, 17820), (256, 17832), (273, 17910), (282, 17976), (288, 18009), (299, 18063), (302, 18075), (318, 18129), (319, 18132), (322, 18141), (341, 18174), (355, 18213), (357, 18216), (361, 18231), (363, 18234), (370, 18261), (372, 18267), (373, 18270), (374, 18273), (380, 18300), (383, 18318), (385, 18321), (403, 18396), (410, 18417), (411, 18420), (421, 18447), (428, 18471), (440, 18516), (441, 18519), (450, 18570), (463, 18633), (465, 18642), (470, 18666), (501, 18771), (502, 18774), (514, 18825), (515, 18831), (516, 18837), (517, 18840), (525, 18885), (527, 18900), (533, 18927), (537, 18951), (547, 19002), (552, 19020), (553, 19023), (554, 19035), (571, 19089), (598, 19212), (611, 19275), (624, 19338), (632, 19413), (673, 19614), (702, 19824), (708, 19863), (709, 19866),

Gene: Maxxinista_27 Start: 21751, Stop: 24147, Start Num: 126

Candidate Starts for Maxxinista_27:

(Start: 126 @21751 has 125 MA's), (195, 21928), (206, 21949), (264, 22096), (294, 22270), (302, 22303), (309, 22339), (350, 22432), (367, 22492), (374, 22510), (406, 22642), (422, 22687), (453, 22819), (462, 22864), (478, 22924), (510, 23038), (514, 23059), (522, 23098), (525, 23119), (527, 23134), (560, 23284), (562, 23290), (565, 23308), (580, 23362), (598, 23446), (618, 23539), (661, 23785), (696, 24001), (706, 24085), (712, 24118),

Gene: MeaningOfLife_27 Start: 20848, Stop: 23280, Start Num: 134

Candidate Starts for MeaningOfLife_27:

(Start: 134 @20848 has 92 MA's), (174, 20947), (224, 21088), (263, 21208), (267, 21229), (305, 21436), (318, 21469), (323, 21499), (347, 21571), (352, 21595), (401, 21793), (412, 21838), (416, 21850), (420, 21859), (433, 21910), (467, 22090), (472, 22105), (487, 22174), (492, 22186), (508, 22249), (517, 22291), (525, 22330), (526, 22336), (527, 22345), (532, 22366), (544, 22426), (574, 22543), (581, 22585), (601, 22657), (603, 22666), (608, 22687), (619, 22759), (623, 22780), (635, 22876), (647, 22939), (665, 23023), (673, 23065), (679, 23104),

Gene: Megatron06_31 Start: 26215, Stop: 29058, Start Num: 35

Candidate Starts for Megatron06_31:

(Start: 35 @26215 has 8 MA's), (56, 26347), (58, 26359), (60, 26368), (69, 26437), (71, 26443), (98, 26503), (107, 26524), (125, 26572), (139, 26614), (155, 26638), (168, 26671), (180, 26707), (185, 26719), (223, 26812), (241, 26869), (251, 26908), (279, 27034), (288, 27103), (293, 27133), (303, 27175), (319, 27226), (354, 27316), (363, 27334), (382, 27415), (396, 27454), (400, 27475), (440, 27613), (446, 27652), (461, 27715), (484, 27817), (537, 28042), (616, 28405), (622, 28432), (658, 28675), (669, 28708), (672, 28732), (691, 28852), (701, 28930), (712, 29017), (714, 29032), (715, 29038),

Gene: Megsy_27 Start: 20849, Stop: 23281, Start Num: 134

Candidate Starts for Megsy_27:

(Start: 134 @20849 has 92 MA's), (174, 20948), (263, 21209), (305, 21437), (318, 21470), (323, 21500), (347, 21572), (352, 21596), (401, 21794), (412, 21839), (416, 21851), (420, 21860), (433, 21911), (467, 22091), (472, 22106), (487, 22175), (492, 22187), (508, 22250), (517, 22292), (525, 22331), (526, 22337), (527, 22346), (532, 22367), (544, 22427), (574, 22544), (581, 22586), (601, 22658), (603, 22667), (608, 22688), (619, 22760), (623, 22781), (635, 22877), (679, 23105), (696, 23252),

Gene: Melissauren88_18 Start: 17470, Stop: 19965, Start Num: 104

Candidate Starts for Melissauren88_18:

(76, 17416), (Start: 81 @17428 has 221 MA's), (92, 17449), (Start: 104 @17470 has 1 MA's), (121, 17509), (154, 17578), (159, 17587), (160, 17590), (167, 17608), (178, 17641), (184, 17656), (202,

17704), (240, 17815), (241, 17818), (252, 17848), (255, 17860), (256, 17863), (273, 17941), (277, 17965), (287, 18031), (295, 18076), (302, 18106), (303, 18112), (305, 18130), (316, 18154), (319, 18163), (335, 18196), (338, 18202), (350, 18232), (363, 18271), (365, 18283), (367, 18292), (373, 18307), (374, 18310), (401, 18421), (402, 18424), (403, 18433), (404, 18439), (410, 18454), (411, 18457), (419, 18478), (428, 18508), (432, 18520), (440, 18553), (462, 18664), (463, 18667), (469, 18694), (471, 18700), (483, 18754), (484, 18757), (511, 18844), (514, 18859), (516, 18871), (517, 18874), (528, 18940), (534, 18964), (537, 18985), (539, 18994), (552, 19054), (553, 19057), (562, 19093), (565, 19111), (571, 19123), (574, 19132), (579, 19159), (595, 19228), (598, 19246), (602, 19255), (604, 19267), (610, 19303), (615, 19333), (620, 19354), (626, 19378), (630, 19414), (635, 19468), (647, 19528), (652, 19570), (671, 19648), (681, 19705), (685, 19729), (692, 19783), (696, 19831), (703, 19873), (705, 19897), (706, 19900),

Gene: Mercurio_24 Start: 21194, Stop: 23665, Start Num: 90

Candidate Starts for Mercurio_24:

(Start: 90 @21194 has 8 MA's), (115, 21260), (131, 21302), (176, 21410), (224, 21533), (244, 21596), (266, 21674), (318, 21905), (331, 21938), (339, 21950), (368, 22052), (380, 22094), (391, 22133), (395, 22148), (405, 22199), (418, 22235), (438, 22301), (443, 22328), (483, 22526), (501, 22601), (506, 22622), (527, 22730), (535, 22775), (547, 22826), (552, 22850), (561, 22886), (565, 22910), (572, 22931), (608, 23069), (624, 23165), (642, 23303),

Gene: MiaZeal_36 Start: 27554, Stop: 30061, Start Num: 81

Candidate Starts for MiaZeal_36:

(Start: 81 @27554 has 221 MA's), (167, 27749), (178, 27785), (184, 27800), (224, 27887), (229, 27902), (256, 27977), (260, 27989), (267, 28016), (285, 28121), (292, 28160), (295, 28169), (302, 28193), (303, 28199), (305, 28217), (319, 28250), (322, 28259), (326, 28268), (335, 28283), (346, 28310), (350, 28319), (363, 28358), (365, 28370), (367, 28379), (391, 28463), (411, 28544), (422, 28574), (423, 28577), (432, 28607), (439, 28634), (441, 28643), (450, 28694), (451, 28703), (453, 28706), (461, 28742), (465, 28763), (474, 28799), (515, 28952), (525, 29006), (534, 29051), (536, 29069), (537, 29072), (545, 29111), (578, 29258), (580, 29267), (596, 29336), (598, 29351), (630, 29516), (639, 29603), (649, 29651), (661, 29702), (677, 29780), (707, 30002), (709, 30005), (712, 30032),

Gene: MilleniumForce_19 Start: 18211, Stop: 20748, Start Num: 81

Candidate Starts for MilleniumForce_19:

(76, 18199), (Start: 81 @18211 has 221 MA's), (92, 18232), (Start: 104 @18253 has 1 MA's), (121, 18292), (154, 18361), (159, 18370), (160, 18373), (167, 18391), (178, 18424), (184, 18439), (202, 18487), (240, 18598), (241, 18601), (252, 18631), (255, 18643), (256, 18646), (273, 18724), (277, 18748), (287, 18814), (295, 18859), (302, 18889), (303, 18895), (305, 18913), (316, 18937), (319, 18946), (335, 18979), (338, 18985), (350, 19015), (363, 19054), (365, 19066), (367, 19075), (373, 19090), (374, 19093), (401, 19204), (402, 19207), (403, 19216), (404, 19222), (410, 19237), (411, 19240), (419, 19261), (428, 19291), (432, 19303), (440, 19336), (462, 19447), (463, 19450), (469, 19477), (471, 19483), (483, 19537), (484, 19540), (514, 19642), (516, 19654), (517, 19657), (528, 19723), (534, 19747), (537, 19768), (539, 19777), (552, 19837), (553, 19840), (562, 19876), (565, 19894), (571, 19906), (574, 19915), (579, 19942), (595, 20011), (598, 20029), (602, 20038), (604, 20050), (610, 20086), (615, 20116), (620, 20137), (626, 20161), (630, 20197), (635, 20251), (647, 20311), (652, 20353), (671, 20431), (681, 20488), (685, 20512), (692, 20566), (696, 20614), (703, 20656), (705, 20680), (706, 20683),

Gene: Mindy_26 Start: 22062, Stop: 24458, Start Num: 126

Candidate Starts for Mindy_26:

(Start: 126 @22062 has 125 MA's), (195, 22239), (206, 22260), (264, 22407), (288, 22548), (294, 22581), (302, 22614), (309, 22650), (350, 22743), (367, 22803), (374, 22821), (415, 22977), (422, 22998), (450, 23118), (453, 23130), (462, 23175), (514, 23370), (517, 23385), (525, 23430), (527,

23445), (562, 23601), (565, 23619), (568, 23628), (598, 23757), (599, 23760), (634, 23970), (636, 23982), (661, 24096), (696, 24312), (706, 24396), (710, 24420), (712, 24429),

Gene: Minerva_39 Start: 31221, Stop: 33764, Start Num: 81

Candidate Starts for Minerva_39:

(66, 31164), (Start: 81 @31221 has 221 MA's), (165, 31410), (184, 31467), (201, 31512), (240, 31626), (241, 31629), (247, 31650), (253, 31662), (256, 31674), (273, 31752), (282, 31818), (288, 31851), (295, 31887), (301, 31911), (318, 31971), (319, 31974), (326, 31992), (355, 32055), (357, 32058), (363, 32076), (367, 32097), (374, 32115), (380, 32142), (385, 32163), (396, 32196), (404, 32244), (406, 32247), (411, 32262), (421, 32289), (428, 32313), (440, 32358), (465, 32484), (483, 32562), (502, 32616), (514, 32667), (515, 32673), (516, 32679), (517, 32682), (525, 32727), (527, 32742), (533, 32769), (537, 32793), (547, 32844), (552, 32862), (553, 32865), (554, 32877), (571, 32931), (580, 32973), (611, 33117), (622, 33171), (623, 33177), (624, 33180), (628, 33216), (629, 33219), (631, 33228), (632, 33255), (673, 33456), (696, 33627), (702, 33666), (709, 33708),

Gene: MinionDave_19 Start: 18080, Stop: 20617, Start Num: 81

Candidate Starts for MinionDave_19:

(Start: 81 @18080 has 221 MA's), (128, 18170), (154, 18230), (159, 18239), (160, 18242), (167, 18260), (178, 18293), (184, 18308), (202, 18356), (240, 18467), (241, 18470), (252, 18500), (255, 18512), (256, 18515), (273, 18593), (277, 18617), (287, 18683), (295, 18728), (302, 18758), (303, 18764), (305, 18782), (316, 18806), (319, 18815), (335, 18848), (338, 18854), (350, 18884), (363, 18923), (365, 18935), (367, 18944), (373, 18959), (374, 18962), (401, 19073), (402, 19076), (403, 19085), (404, 19091), (410, 19106), (411, 19109), (419, 19130), (428, 19160), (432, 19172), (440, 19205), (462, 19316), (463, 19319), (469, 19346), (471, 19352), (483, 19406), (484, 19409), (511, 19496), (514, 19511), (516, 19523), (517, 19526), (528, 19592), (534, 19616), (537, 19637), (539, 19646), (552, 19706), (553, 19709), (562, 19745), (565, 19763), (571, 19775), (574, 19784), (579, 19811), (595, 19880), (598, 19898), (602, 19907), (604, 19919), (610, 19955), (615, 19985), (620, 20006), (626, 20030), (630, 20066), (635, 20120), (647, 20180), (652, 20222), (671, 20300), (681, 20357), (685, 20381), (692, 20435), (696, 20483), (703, 20525), (705, 20549), (706, 20552),

Gene: Miniwave_26 Start: 22481, Stop: 24877, Start Num: 126

Candidate Starts for Miniwave_26:

(Start: 126 @22481 has 125 MA's), (195, 22658), (206, 22679), (264, 22826), (288, 22967), (294, 23000), (302, 23033), (309, 23069), (350, 23162), (367, 23222), (374, 23240), (406, 23372), (422, 23417), (453, 23549), (462, 23594), (478, 23654), (510, 23768), (514, 23789), (522, 23828), (525, 23849), (527, 23864), (560, 24014), (562, 24020), (565, 24038), (580, 24092), (598, 24176), (618, 24269), (661, 24515), (696, 24731), (706, 24815), (712, 24848),

Gene: Minnie_19 Start: 17940, Stop: 20477, Start Num: 81

Candidate Starts for Minnie_19:

(76, 17928), (Start: 81 @17940 has 221 MA's), (92, 17961), (Start: 104 @17982 has 1 MA's), (121, 18021), (154, 18090), (159, 18099), (160, 18102), (167, 18120), (178, 18153), (184, 18168), (202, 18216), (240, 18327), (241, 18330), (252, 18360), (255, 18372), (256, 18375), (273, 18453), (277, 18477), (287, 18543), (295, 18588), (302, 18618), (303, 18624), (305, 18642), (316, 18666), (319, 18675), (335, 18708), (338, 18714), (350, 18744), (363, 18783), (365, 18795), (367, 18804), (373, 18819), (374, 18822), (401, 18933), (402, 18936), (403, 18945), (404, 18951), (410, 18966), (411, 18969), (419, 18990), (428, 19020), (432, 19032), (440, 19065), (462, 19176), (463, 19179), (469, 19206), (471, 19212), (483, 19266), (484, 19269), (514, 19371), (516, 19383), (517, 19386), (528, 19452), (534, 19476), (537, 19497), (539, 19506), (552, 19566), (553, 19569), (562, 19605), (565, 19623), (571, 19635), (574, 19644), (579, 19671), (595, 19740), (598, 19758), (602, 19767), (604, 19779), (610, 19815), (615, 19845), (620, 19866), (626, 19890), (630, 19926), (635, 19980), (647, 20040), (652, 20082), (671, 20160), (681, 20217), (685, 20241), (692, 20295), (696, 20343), (703, 20385), (705, 20409), (706, 20412),

Gene: Misfit_26 Start: 22371, Stop: 24767, Start Num: 126

Candidate Starts for Misfit_26:

(Start: 126 @22371 has 125 MA's), (195, 22548), (206, 22569), (264, 22716), (288, 22857), (294, 22890), (302, 22923), (309, 22959), (350, 23052), (367, 23112), (374, 23130), (406, 23262), (422, 23307), (453, 23439), (462, 23484), (478, 23544), (510, 23658), (514, 23679), (522, 23718), (525, 23739), (527, 23754), (560, 23904), (562, 23910), (565, 23928), (580, 23982), (598, 24066), (618, 24159), (661, 24405), (696, 24621), (706, 24705), (712, 24738),

Gene: Misha28_19 Start: 17273, Stop: 19798, Start Num: 81

Candidate Starts for Misha28_19:

(Start: 81 @17273 has 221 MA's), (92, 17294), (Start: 104 @17315 has 1 MA's), (121, 17354), (154, 17423), (159, 17432), (160, 17435), (167, 17453), (178, 17486), (184, 17501), (202, 17549), (240, 17660), (241, 17663), (256, 17708), (273, 17786), (277, 17810), (287, 17876), (295, 17921), (302, 17951), (303, 17957), (305, 17975), (316, 17999), (319, 18008), (335, 18041), (338, 18047), (350, 18077), (363, 18116), (365, 18128), (367, 18137), (373, 18152), (374, 18155), (411, 18302), (428, 18353), (452, 18464), (463, 18515), (468, 18539), (495, 18632), (507, 18677), (510, 18686), (514, 18707), (516, 18719), (517, 18722), (525, 18767), (534, 18812), (536, 18830), (537, 18833), (547, 18884), (560, 18935), (562, 18941), (565, 18959), (571, 18971), (574, 18980), (580, 19013), (598, 19094), (612, 19163), (618, 19190), (623, 19217), (631, 19268), (635, 19316), (684, 19559), (696, 19664), (700, 19685), (708, 19739), (711, 19763),

Gene: MisterCuddles_18 Start: 17371, Stop: 19908, Start Num: 81

Candidate Starts for MisterCuddles_18:

(Start: 81 @17371 has 221 MA's), (92, 17392), (Start: 104 @17413 has 1 MA's), (121, 17452), (154, 17521), (159, 17530), (160, 17533), (167, 17551), (178, 17584), (184, 17599), (238, 17752), (241, 17761), (256, 17806), (276, 17905), (277, 17908), (287, 17974), (302, 18049), (303, 18055), (316, 18097), (318, 18103), (319, 18106), (335, 18139), (338, 18145), (350, 18175), (357, 18196), (365, 18226), (367, 18235), (373, 18250), (374, 18253), (401, 18364), (402, 18367), (403, 18376), (404, 18382), (410, 18397), (411, 18400), (419, 18421), (428, 18451), (432, 18463), (440, 18496), (462, 18607), (463, 18610), (469, 18637), (471, 18643), (483, 18697), (484, 18700), (511, 18787), (514, 18802), (516, 18814), (517, 18817), (528, 18883), (534, 18907), (537, 18928), (539, 18937), (547, 18979), (552, 18997), (553, 19000), (560, 19030), (565, 19054), (571, 19066), (574, 19075), (595, 19171), (598, 19189), (602, 19198), (604, 19210), (610, 19246), (615, 19276), (618, 19285), (620, 19297), (630, 19357), (635, 19411), (647, 19471), (652, 19513), (681, 19648), (685, 19672), (692, 19726), (696, 19774), (703, 19816), (705, 19840), (706, 19843),

Gene: Modragons_18 Start: 17634, Stop: 20171, Start Num: 81

Candidate Starts for Modragons_18:

(Start: 81 @17634 has 221 MA's), (92, 17655), (Start: 104 @17676 has 1 MA's), (121, 17715), (154, 17784), (159, 17793), (160, 17796), (167, 17814), (184, 17862), (240, 18021), (241, 18024), (255, 18066), (256, 18069), (273, 18147), (276, 18168), (277, 18171), (287, 18237), (288, 18246), (295, 18282), (302, 18312), (303, 18318), (316, 18360), (318, 18366), (319, 18369), (335, 18402), (338, 18408), (350, 18438), (357, 18459), (365, 18489), (367, 18498), (397, 18606), (400, 18618), (401, 18627), (402, 18630), (403, 18639), (404, 18645), (410, 18660), (411, 18663), (419, 18684), (432, 18726), (440, 18759), (469, 18900), (471, 18906), (483, 18960), (484, 18963), (495, 18990), (514, 19065), (516, 19077), (517, 19080), (528, 19146), (533, 19167), (534, 19170), (537, 19191), (547, 19242), (552, 19260), (553, 19263), (560, 19293), (565, 19317), (571, 19329), (595, 19434), (598, 19452), (602, 19461), (604, 19473), (610, 19509), (615, 19539), (620, 19560), (626, 19584), (630, 19620), (647, 19734), (652, 19776), (671, 19854), (681, 19911), (685, 19935), (692, 19989), (696, 20037), (703, 20079), (705, 20103), (706, 20106),

Gene: Moldemort_27 Start: 22026, Stop: 24422, Start Num: 126

Candidate Starts for Moldemort_27:

(Start: 126 @22026 has 125 MA's), (195, 22203), (206, 22224), (264, 22371), (294, 22545), (302, 22578), (309, 22614), (350, 22707), (367, 22767), (374, 22785), (406, 22917), (422, 22962), (453, 23094), (462, 23139), (478, 23199), (510, 23313), (514, 23334), (522, 23373), (525, 23394), (527, 23409), (560, 23559), (562, 23565), (565, 23583), (580, 23637), (598, 23721), (618, 23814), (661, 24060), (696, 24276), (706, 24360), (712, 24393),

Gene: MontyDev_30 Start: 24302, Stop: 27778, Start Num: 5

Candidate Starts for MontyDev_30:

(Start: 2 @24278 has 8 MA's), (4, 24290), (Start: 5 @24302 has 1 MA's), (8, 24485), (11, 24566), (17, 24665), (19, 24689), (20, 24707), (37, 24866), (41, 24899), (48, 24947), (54, 24986), (75, 25112), (77, 25121), (145, 25307), (222, 25508), (266, 25685), (282, 25784), (288, 25817), (297, 25862), (300, 25874), (308, 25916), (311, 25922), (313, 25925), (343, 25994), (366, 26072), (367, 26078), (379, 26123), (380, 26126), (401, 26210), (424, 26279), (436, 26324), (445, 26369), (454, 26414), (460, 26435), (462, 26453), (463, 26456), (464, 26462), (465, 26465), (500, 26603), (512, 26651), (513, 26657), (527, 26738), (545, 26831), (557, 26891), (560, 26900), (562, 26906), (566, 26927), (606, 27092), (618, 27158), (620, 27170), (624, 27188), (626, 27194), (666, 27428), (672, 27467), (680, 27512), (684, 27542), (695, 27635), (700, 27662),

Gene: MooMoo_18 Start: 17135, Stop: 19570, Start Num: 81

Candidate Starts for MooMoo_18:

(Start: 81 @17135 has 221 MA's), (87, 17147), (100, 17168), (116, 17213), (124, 17231), (129, 17243), (162, 17318), (195, 17414), (208, 17441), (218, 17450), (225, 17468), (227, 17471), (230, 17480), (260, 17555), (262, 17564), (265, 17573), (286, 17651), (302, 17717), (303, 17723), (312, 17759), (314, 17762), (316, 17765), (318, 17771), (322, 17783), (326, 17792), (335, 17807), (353, 17858), (361, 17879), (363, 17882), (367, 17903), (376, 17927), (386, 17972), (401, 18032), (402, 18035), (408, 18056), (415, 18077), (427, 18110), (428, 18119), (440, 18164), (441, 18167), (442, 18173), (447, 18206), (450, 18218), (451, 18227), (453, 18230), (478, 18335), (484, 18368), (516, 18482), (526, 18536), (532, 18569), (533, 18572), (534, 18575), (536, 18593), (545, 18632), (560, 18695), (578, 18773), (581, 18791), (595, 18848), (596, 18851), (599, 18869), (611, 18929), (614, 18944), (626, 18998), (635, 19085), (651, 19190), (663, 19217), (677, 19289), (681, 19313), (696, 19430), (700, 19451), (707, 19511), (709, 19514), (712, 19541), (713, 19550),

Gene: Moonbeam_19 Start: 17889, Stop: 20426, Start Num: 81

Candidate Starts for Moonbeam_19:

(76, 17877), (Start: 81 @17889 has 221 MA's), (92, 17910), (Start: 104 @17931 has 1 MA's), (121, 17970), (154, 18039), (159, 18048), (160, 18051), (167, 18069), (178, 18102), (184, 18117), (202, 18165), (240, 18276), (241, 18279), (252, 18309), (255, 18321), (256, 18324), (273, 18402), (277, 18426), (287, 18492), (295, 18537), (302, 18567), (303, 18573), (305, 18591), (316, 18615), (319, 18624), (335, 18657), (338, 18663), (350, 18693), (363, 18732), (365, 18744), (367, 18753), (373, 18768), (374, 18771), (401, 18882), (402, 18885), (403, 18894), (404, 18900), (410, 18915), (411, 18918), (419, 18939), (428, 18969), (432, 18981), (440, 19014), (462, 19125), (463, 19128), (469, 19155), (471, 19161), (483, 19215), (484, 19218), (511, 19305), (514, 19320), (516, 19332), (517, 19335), (528, 19401), (534, 19425), (537, 19446), (539, 19455), (547, 19497), (552, 19515), (553, 19518), (562, 19554), (565, 19572), (571, 19584), (574, 19593), (579, 19620), (595, 19689), (598, 19707), (602, 19716), (604, 19728), (610, 19764), (615, 19794), (620, 19815), (626, 19839), (630, 19875), (635, 19929), (647, 19989), (652, 20031), (671, 20109), (681, 20166), (685, 20190), (692, 20244), (696, 20292), (703, 20334), (705, 20358), (706, 20361),

Gene: Mopey_30 Start: 24316, Stop: 26586, Start Num: 39

Candidate Starts for Mopey_30:

(Start: 39 @24316 has 22 MA's), (59, 24451), (61, 24460), (102, 24634), (105, 24640), (108, 24652), (167, 24805), (173, 24820), (177, 24835), (277, 25216), (279, 25222), (284, 25267), (301, 25354),

(370, 25555), (372, 25561), (382, 25609), (394, 25639), (400, 25663), (449, 25852), (456, 25879), (465, 25927), (482, 25999), (497, 26038), (503, 26059), (506, 26074), (511, 26092), (517, 26122), (536, 26206), (590, 26407), (600, 26449), (627, 26575),

Gene: Mori_58 Start: 36137, Stop: 38647, Start Num: 96

Candidate Starts for Mori_58:

(Start: 96 @36137 has 28 MA's), (108, 36170), (136, 36239), (137, 36242), (147, 36266), (160, 36290), (170, 36314), (178, 36347), (245, 36554), (248, 36566), (249, 36569), (281, 36716), (282, 36746), (287, 36770), (295, 36800), (296, 36803), (302, 36830), (305, 36854), (318, 36884), (344, 36941), (351, 36965), (363, 37001), (365, 37013), (373, 37037), (374, 37040), (382, 37082), (410, 37178), (411, 37181), (475, 37436), (514, 37580), (525, 37640), (536, 37712), (537, 37715), (558, 37811), (598, 37985), (604, 38006), (622, 38099), (625, 38111), (635, 38201), (650, 38276), (670, 38321), (699, 38522), (704, 38576), (709, 38591),

Gene: Mosby_25 Start: 21791, Stop: 24187, Start Num: 126

Candidate Starts for Mosby_25:

(Start: 126 @21791 has 125 MA's), (195, 21968), (206, 21989), (264, 22136), (288, 22277), (294, 22310), (302, 22343), (309, 22379), (350, 22472), (367, 22532), (374, 22550), (406, 22682), (422, 22727), (453, 22859), (462, 22904), (510, 23078), (514, 23099), (522, 23138), (525, 23159), (527, 23174), (562, 23330), (565, 23348), (580, 23402), (598, 23486), (618, 23579), (661, 23825), (696, 24041), (706, 24125), (712, 24158),

Gene: Mova_19 Start: 17248, Stop: 19785, Start Num: 81

Candidate Starts for Mova_19:

(Start: 81 @17248 has 221 MA's), (92, 17269), (Start: 104 @17290 has 1 MA's), (121, 17329), (154, 17398), (159, 17407), (160, 17410), (167, 17428), (178, 17461), (184, 17476), (240, 17635), (241, 17638), (256, 17683), (273, 17761), (277, 17785), (287, 17851), (302, 17926), (303, 17932), (305, 17950), (316, 17974), (319, 17983), (335, 18016), (338, 18022), (350, 18052), (357, 18073), (363, 18091), (367, 18112), (373, 18127), (374, 18130), (397, 18220), (401, 18241), (402, 18244), (403, 18253), (404, 18259), (410, 18274), (411, 18277), (419, 18298), (432, 18340), (440, 18373), (453, 18439), (462, 18484), (463, 18487), (469, 18514), (471, 18520), (483, 18574), (484, 18577), (495, 18604), (511, 18664), (514, 18679), (516, 18691), (517, 18694), (528, 18760), (534, 18784), (539, 18814), (547, 18856), (552, 18874), (553, 18877), (562, 18913), (565, 18931), (571, 18943), (574, 18952), (579, 18979), (595, 19048), (598, 19066), (602, 19075), (604, 19087), (610, 19123), (615, 19153), (620, 19174), (626, 19198), (630, 19234), (635, 19288), (652, 19390), (681, 19525), (685, 19549), (692, 19603), (696, 19651), (703, 19693), (705, 19717), (706, 19720),

Gene: Mozy_19 Start: 17298, Stop: 19835, Start Num: 81

Candidate Starts for Mozy_19:

(Start: 81 @17298 has 221 MA's), (92, 17319), (Start: 104 @17340 has 1 MA's), (121, 17379), (154, 17448), (159, 17457), (160, 17460), (167, 17478), (178, 17511), (184, 17526), (240, 17685), (241, 17688), (252, 17718), (256, 17733), (273, 17811), (276, 17832), (277, 17835), (287, 17901), (302, 17976), (303, 17982), (316, 18024), (318, 18030), (319, 18033), (335, 18066), (338, 18072), (350, 18102), (357, 18123), (365, 18153), (367, 18162), (401, 18291), (402, 18294), (403, 18303), (404, 18309), (410, 18324), (411, 18327), (419, 18348), (428, 18378), (432, 18390), (440, 18423), (441, 18426), (453, 18489), (469, 18564), (471, 18570), (483, 18624), (484, 18627), (495, 18654), (514, 18729), (516, 18741), (517, 18744), (528, 18810), (534, 18834), (539, 18864), (552, 18924), (553, 18927), (562, 18963), (565, 18981), (574, 19002), (595, 19098), (598, 19116), (602, 19125), (604, 19137), (610, 19173), (620, 19224), (630, 19284), (635, 19338), (652, 19440), (671, 19518), (681, 19575), (685, 19599), (692, 19653), (696, 19701), (703, 19743), (705, 19767), (706, 19770),

Gene: MrMiyagi_24 Start: 20573, Stop: 24064, Start Num: 3

Candidate Starts for MrMiyagi_24:

(Start: 3 @20573 has 2 MA's), (9, 20798), (12, 20867), (16, 20900), (27, 21095), (43, 21191), (44, 21194), (45, 21200), (49, 21227), (52, 21245), (192, 21695), (197, 21716), (222, 21782), (254, 21902), (269, 21971), (270, 21977), (291, 22121), (300, 22154), (308, 22196), (342, 22271), (367, 22358), (391, 22445), (392, 22448), (396, 22460), (432, 22586), (440, 22619), (454, 22691), (462, 22730), (534, 23030), (549, 23120), (559, 23156), (683, 23810),

Gene: MulchExplorer_21 Start: 18519, Stop: 21056, Start Num: 81

Candidate Starts for MulchExplorer_21:

(76, 18507), (Start: 81 @18519 has 221 MA's), (92, 18540), (Start: 104 @18561 has 1 MA's), (121, 18600), (154, 18669), (159, 18678), (160, 18681), (167, 18699), (178, 18732), (184, 18747), (202, 18795), (240, 18906), (241, 18909), (252, 18939), (255, 18951), (256, 18954), (273, 19032), (277, 19056), (287, 19122), (295, 19167), (302, 19197), (303, 19203), (305, 19221), (316, 19245), (319, 19254), (335, 19287), (338, 19293), (350, 19323), (363, 19362), (365, 19374), (367, 19383), (373, 19398), (374, 19401), (401, 19512), (402, 19515), (403, 19524), (404, 19530), (410, 19545), (411, 19548), (419, 19569), (428, 19599), (432, 19611), (440, 19644), (462, 19755), (463, 19758), (469, 19785), (471, 19791), (483, 19845), (484, 19848), (511, 19935), (514, 19950), (516, 19962), (517, 19965), (528, 20031), (534, 20055), (537, 20076), (539, 20085), (547, 20127), (552, 20145), (553, 20148), (562, 20184), (565, 20202), (571, 20214), (574, 20223), (579, 20250), (595, 20319), (598, 20337), (602, 20346), (604, 20358), (610, 20394), (615, 20424), (620, 20445), (626, 20469), (630, 20505), (635, 20559), (647, 20619), (652, 20661), (671, 20739), (681, 20796), (685, 20820), (692, 20874), (696, 20922), (703, 20964), (705, 20988), (706, 20991),

Gene: Murai_59 Start: 36318, Stop: 38828, Start Num: 96

Candidate Starts for Murai_59:

(Start: 96 @36318 has 28 MA's), (108, 36351), (136, 36420), (137, 36423), (147, 36447), (160, 36471), (170, 36495), (178, 36528), (245, 36735), (248, 36747), (249, 36750), (281, 36897), (282, 36927), (287, 36951), (295, 36981), (296, 36984), (302, 37011), (305, 37035), (318, 37065), (344, 37122), (363, 37182), (365, 37194), (373, 37218), (374, 37221), (382, 37263), (410, 37359), (411, 37362), (475, 37617), (514, 37761), (525, 37821), (536, 37893), (537, 37896), (558, 37992), (598, 38166), (604, 38187), (622, 38280), (625, 38292), (635, 38382), (650, 38457), (670, 38502), (699, 38703), (704, 38757), (709, 38772),

Gene: Murica_25 Start: 22268, Stop: 24664, Start Num: 126

Candidate Starts for Murica_25:

(Start: 126 @22268 has 125 MA's), (195, 22445), (206, 22466), (264, 22613), (288, 22754), (294, 22787), (302, 22820), (309, 22856), (350, 22949), (367, 23009), (374, 23027), (406, 23159), (422, 23204), (453, 23336), (462, 23381), (478, 23441), (510, 23555), (514, 23576), (522, 23615), (525, 23636), (527, 23651), (560, 23801), (562, 23807), (565, 23825), (580, 23879), (598, 23963), (618, 24056), (661, 24302), (696, 24518), (706, 24602), (712, 24635),

Gene: Murphy_27 Start: 22263, Stop: 24659, Start Num: 126

Candidate Starts for Murphy_27:

(Start: 126 @22263 has 125 MA's), (195, 22440), (206, 22461), (264, 22608), (288, 22749), (294, 22782), (302, 22815), (309, 22851), (350, 22944), (367, 23004), (374, 23022), (406, 23154), (422, 23199), (453, 23331), (462, 23376), (478, 23436), (510, 23550), (514, 23571), (522, 23610), (525, 23631), (527, 23646), (560, 23796), (562, 23802), (565, 23820), (580, 23874), (598, 23958), (618, 24051), (661, 24297), (696, 24513), (706, 24597), (712, 24630),

Gene: Murucutumbu_27 Start: 20831, Stop: 23263, Start Num: 134

Candidate Starts for Murucutumbu_27:

(Start: 134 @20831 has 92 MA's), (174, 20930), (263, 21191), (267, 21212), (318, 21452), (323, 21482), (324, 21485), (347, 21554), (352, 21578), (365, 21623), (401, 21776), (416, 21833), (420, 21842), (430, 21878), (433, 21893), (467, 22073), (472, 22088), (487, 22157), (508, 22232), (517,

22274), (525, 22313), (526, 22319), (527, 22328), (544, 22409), (574, 22526), (581, 22568), (601, 22640), (603, 22649), (608, 22670), (623, 22763), (635, 22859), (679, 23087), (696, 23234),

Gene: Mutaforma13_18 Start: 17444, Stop: 19981, Start Num: 81

Candidate Starts for Mutaforma13_18:

(76, 17432), (Start: 81 @17444 has 221 MA's), (92, 17465), (Start: 104 @17486 has 1 MA's), (119, 17522), (121, 17525), (154, 17594), (159, 17603), (160, 17606), (167, 17624), (178, 17657), (184, 17672), (202, 17720), (238, 17825), (240, 17831), (241, 17834), (252, 17864), (255, 17876), (256, 17879), (277, 17981), (287, 18047), (295, 18092), (302, 18122), (303, 18128), (305, 18146), (316, 18170), (319, 18179), (335, 18212), (338, 18218), (357, 18269), (363, 18287), (365, 18299), (367, 18308), (373, 18323), (375, 18329), (401, 18437), (403, 18449), (404, 18455), (410, 18470), (411, 18473), (419, 18494), (428, 18524), (432, 18536), (440, 18569), (453, 18635), (462, 18680), (463, 18683), (469, 18710), (471, 18716), (483, 18770), (484, 18773), (495, 18800), (514, 18875), (516, 18887), (517, 18890), (528, 18956), (534, 18980), (539, 19010), (547, 19052), (552, 19070), (553, 19073), (562, 19109), (565, 19127), (574, 19148), (579, 19175), (595, 19244), (598, 19262), (602, 19271), (604, 19283), (610, 19319), (620, 19370), (624, 19388), (630, 19430), (635, 19484), (652, 19586), (681, 19721), (685, 19745), (692, 19799), (696, 19847), (703, 19889), (705, 19913), (706, 19916),

Gene: Mynx_27 Start: 20895, Stop: 23327, Start Num: 134

Candidate Starts for Mynx_27:

(Start: 134 @20895 has 92 MA's), (174, 20994), (263, 21255), (267, 21276), (305, 21483), (318, 21516), (323, 21546), (347, 21618), (352, 21642), (365, 21687), (401, 21840), (412, 21885), (416, 21897), (420, 21906), (433, 21957), (467, 22137), (472, 22152), (487, 22221), (492, 22233), (508, 22296), (517, 22338), (525, 22377), (526, 22383), (527, 22392), (532, 22413), (544, 22473), (574, 22590), (581, 22632), (601, 22704), (603, 22713), (608, 22734), (619, 22806), (623, 22827), (635, 22923), (647, 22986), (679, 23151), (696, 23298),

Gene: Myrale_26 Start: 22154, Stop: 24550, Start Num: 126

Candidate Starts for Myrale_26:

(Start: 126 @22154 has 125 MA's), (195, 22331), (206, 22352), (264, 22499), (288, 22640), (294, 22673), (302, 22706), (309, 22742), (350, 22835), (367, 22895), (374, 22913), (396, 22994), (453, 23222), (462, 23267), (514, 23462), (515, 23468), (517, 23477), (525, 23522), (527, 23537), (562, 23693), (565, 23711), (568, 23720), (581, 23774), (598, 23849), (599, 23852), (634, 24062), (636, 24074), (661, 24188), (696, 24404), (706, 24488), (710, 24512), (712, 24521),

Gene: Nala_26 Start: 22310, Stop: 24706, Start Num: 126

Candidate Starts for Nala_26:

(Start: 126 @22310 has 125 MA's), (195, 22487), (206, 22508), (264, 22655), (288, 22796), (294, 22829), (302, 22862), (309, 22898), (350, 22991), (367, 23051), (374, 23069), (406, 23201), (422, 23246), (453, 23378), (462, 23423), (478, 23483), (510, 23597), (514, 23618), (522, 23657), (525, 23678), (527, 23693), (560, 23843), (562, 23849), (565, 23867), (580, 23921), (598, 24005), (618, 24098), (661, 24344), (696, 24560), (706, 24644), (712, 24677),

Gene: Nebkiss_22 Start: 19932, Stop: 22502, Start Num: 74

Candidate Starts for Nebkiss_22:

(Start: 74 @19932 has 2 MA's), (97, 19989), (110, 20022), (146, 20100), (148, 20103), (172, 20157), (175, 20169), (193, 20217), (211, 20262), (235, 20334), (241, 20355), (247, 20376), (255, 20397), (256, 20400), (266, 20445), (282, 20544), (292, 20589), (303, 20634), (319, 20685), (326, 20703), (367, 20808), (370, 20814), (373, 20823), (374, 20826), (380, 20853), (385, 20874), (396, 20907), (397, 20916), (401, 20937), (403, 20949), (410, 20970), (428, 21024), (432, 21036), (440, 21069), (455, 21144), (461, 21171), (489, 21294), (501, 21321), (507, 21345), (514, 21375), (519, 21399), (526, 21441), (527, 21450), (548, 21579), (555, 21606), (571, 21657), (596, 21768), (598, 21783),

(648, 22074), (681, 22242), (685, 22266), (703, 22410), (706, 22437), (708, 22443), (709, 22446),

Gene: NelitzaMV_26 Start: 22353, Stop: 24749, Start Num: 126

Candidate Starts for NelitzaMV_26:

(Start: 126 @22353 has 125 MA's), (195, 22530), (206, 22551), (264, 22698), (288, 22839), (294, 22872), (302, 22905), (309, 22941), (350, 23034), (367, 23094), (374, 23112), (415, 23268), (422, 23289), (450, 23409), (453, 23421), (462, 23466), (514, 23661), (517, 23676), (525, 23721), (527, 23736), (562, 23892), (565, 23910), (568, 23919), (598, 24048), (599, 24051), (634, 24261), (636, 24273), (661, 24387), (696, 24603), (706, 24687), (710, 24711), (712, 24720),

Gene: NewHope4_19 Start: 17446, Stop: 19983, Start Num: 81

Candidate Starts for NewHope4_19:

(Start: 81 @17446 has 221 MA's), (92, 17467), (Start: 104 @17488 has 1 MA's), (119, 17524), (121, 17527), (154, 17596), (159, 17605), (160, 17608), (167, 17626), (178, 17659), (184, 17674), (202, 17722), (238, 17827), (240, 17833), (241, 17836), (255, 17878), (256, 17881), (277, 17983), (287, 18049), (295, 18094), (302, 18124), (303, 18130), (305, 18148), (316, 18172), (319, 18181), (335, 18214), (338, 18220), (357, 18271), (363, 18289), (365, 18301), (367, 18310), (373, 18325), (375, 18331), (401, 18439), (403, 18451), (404, 18457), (410, 18472), (411, 18475), (419, 18496), (428, 18526), (432, 18538), (440, 18571), (453, 18637), (462, 18682), (463, 18685), (469, 18712), (471, 18718), (483, 18772), (484, 18775), (511, 18862), (514, 18877), (516, 18889), (517, 18892), (528, 18958), (537, 19003), (539, 19012), (552, 19072), (553, 19075), (562, 19111), (565, 19129), (571, 19141), (574, 19150), (579, 19177), (595, 19246), (598, 19264), (602, 19273), (604, 19285), (610, 19321), (615, 19351), (620, 19372), (626, 19396), (630, 19432), (635, 19486), (647, 19546), (652, 19588), (671, 19666), (681, 19723), (685, 19747), (692, 19801), (696, 19849), (703, 19891), (705, 19915), (706, 19918),

Gene: Nibb_26 Start: 20138, Stop: 22591, Start Num: 134

Candidate Starts for Nibb_26:

(Start: 134 @20138 has 92 MA's), (196, 20309), (219, 20366), (224, 20378), (261, 20495), (267, 20519), (272, 20546), (293, 20675), (303, 20708), (330, 20819), (332, 20828), (333, 20837), (340, 20858), (352, 20906), (380, 21008), (417, 21167), (438, 21248), (458, 21350), (504, 21542), (508, 21563), (517, 21605), (525, 21650), (527, 21665), (567, 21848), (581, 21905), (591, 21938), (608, 22007), (610, 22031), (621, 22088), (624, 22103), (633, 22181), (662, 22328), (667, 22337),

Gene: NiebruSaylor_57 Start: 35525, Stop: 38035, Start Num: 96

Candidate Starts for NiebruSaylor_57:

(Start: 96 @35525 has 28 MA's), (108, 35558), (136, 35627), (137, 35630), (147, 35654), (160, 35678), (170, 35702), (178, 35735), (245, 35942), (248, 35954), (249, 35957), (281, 36104), (282, 36134), (287, 36158), (295, 36188), (296, 36191), (302, 36218), (305, 36242), (318, 36272), (344, 36329), (351, 36353), (363, 36389), (365, 36401), (373, 36425), (374, 36428), (382, 36470), (410, 36566), (411, 36569), (475, 36824), (514, 36968), (525, 37028), (536, 37100), (537, 37103), (558, 37199), (598, 37373), (604, 37394), (622, 37487), (625, 37499), (635, 37589), (650, 37664), (670, 37709), (699, 37910), (704, 37964), (709, 37979),

Gene: Nilo_31 Start: 24634, Stop: 28134, Start Num: 2

Candidate Starts for Nilo_31:

(Start: 2 @24634 has 8 MA's), (4, 24646), (Start: 5 @24658 has 1 MA's), (8, 24841), (11, 24922), (17, 25021), (19, 25045), (20, 25063), (37, 25222), (41, 25255), (48, 25303), (54, 25342), (75, 25468), (77, 25477), (145, 25663), (222, 25864), (266, 26041), (282, 26140), (288, 26173), (297, 26218), (300, 26230), (308, 26272), (315, 26284), (343, 26350), (367, 26434), (372, 26449), (379, 26479), (404, 26584), (424, 26635), (436, 26680), (445, 26725), (454, 26770), (460, 26791), (462, 26809), (463, 26812), (464, 26818), (465, 26821), (500, 26959), (512, 27007), (513, 27013), (527, 27094), (545, 27187), (557, 27247), (560, 27256), (562, 27262), (566, 27283), (606, 27448), (618, 27514), (620,

27526), (624, 27544), (626, 27550), (666, 27784), (672, 27823), (680, 27868), (684, 27898), (695, 27991), (700, 28018),

Gene: Nimbo_18 Start: 17400, Stop: 19937, Start Num: 81

Candidate Starts for Nimbo_18:

(Start: 81 @17400 has 221 MA's), (92, 17421), (Start: 104 @17442 has 1 MA's), (121, 17481), (154, 17550), (159, 17559), (160, 17562), (167, 17580), (184, 17628), (202, 17676), (240, 17787), (241, 17790), (256, 17835), (273, 17913), (277, 17937), (287, 18003), (302, 18078), (303, 18084), (305, 18102), (316, 18126), (319, 18135), (335, 18168), (338, 18174), (350, 18204), (357, 18225), (365, 18255), (367, 18264), (397, 18372), (400, 18384), (401, 18393), (402, 18396), (404, 18411), (410, 18426), (411, 18429), (419, 18450), (432, 18492), (440, 18525), (462, 18636), (463, 18639), (469, 18666), (471, 18672), (483, 18726), (484, 18729), (495, 18756), (514, 18831), (516, 18843), (517, 18846), (528, 18912), (533, 18933), (534, 18936), (537, 18957), (539, 18966), (547, 19008), (552, 19026), (553, 19029), (560, 19059), (565, 19083), (571, 19095), (574, 19104), (595, 19200), (598, 19218), (602, 19227), (604, 19239), (610, 19275), (615, 19305), (618, 19314), (620, 19326), (630, 19386), (635, 19440), (647, 19500), (652, 19542), (681, 19677), (685, 19701), (692, 19755), (696, 19803), (703, 19845), (705, 19869), (706, 19872),

Gene: Nimrod_26 Start: 22529, Stop: 24925, Start Num: 126

Candidate Starts for Nimrod_26:

(Start: 126 @22529 has 125 MA's), (195, 22706), (206, 22727), (264, 22874), (288, 23015), (294, 23048), (302, 23081), (309, 23117), (350, 23210), (367, 23270), (374, 23288), (406, 23420), (422, 23465), (453, 23597), (462, 23642), (478, 23702), (510, 23816), (514, 23837), (522, 23876), (525, 23897), (527, 23912), (560, 24062), (562, 24068), (565, 24086), (580, 24140), (598, 24224), (618, 24317), (661, 24563), (696, 24779), (706, 24863), (712, 24896),

Gene: Nitzel_19 Start: 18136, Stop: 20673, Start Num: 81

Candidate Starts for Nitzel_19:

(Start: 81 @18136 has 221 MA's), (92, 18157), (Start: 104 @18178 has 1 MA's), (121, 18217), (154, 18286), (159, 18295), (160, 18298), (167, 18316), (178, 18349), (184, 18364), (202, 18412), (238, 18517), (240, 18523), (241, 18526), (255, 18568), (256, 18571), (277, 18673), (287, 18739), (295, 18784), (302, 18814), (303, 18820), (305, 18838), (316, 18862), (319, 18871), (335, 18904), (338, 18910), (357, 18961), (363, 18979), (365, 18991), (367, 19000), (373, 19015), (375, 19021), (401, 19129), (403, 19141), (404, 19147), (410, 19162), (411, 19165), (419, 19186), (428, 19216), (432, 19228), (440, 19261), (453, 19327), (462, 19372), (463, 19375), (469, 19402), (471, 19408), (483, 19462), (484, 19465), (495, 19492), (514, 19567), (516, 19579), (517, 19582), (528, 19648), (534, 19672), (539, 19702), (547, 19744), (552, 19762), (553, 19765), (562, 19801), (565, 19819), (571, 19831), (574, 19840), (579, 19867), (595, 19936), (598, 19954), (602, 19963), (604, 19975), (610, 20011), (620, 20062), (624, 20080), (630, 20122), (635, 20176), (647, 20236), (652, 20278), (681, 20413), (685, 20437), (692, 20491), (696, 20539), (703, 20581), (705, 20605), (706, 20608),

Gene: Nivrat_18 Start: 17405, Stop: 19930, Start Num: 81

Candidate Starts for Nivrat_18:

(Start: 81 @17405 has 221 MA's), (121, 17486), (154, 17555), (159, 17564), (160, 17567), (167, 17585), (184, 17633), (201, 17678), (240, 17792), (241, 17795), (244, 17807), (253, 17828), (255, 17837), (256, 17840), (267, 17888), (273, 17918), (282, 17984), (288, 18017), (295, 18053), (301, 18077), (318, 18137), (319, 18140), (326, 18158), (355, 18221), (357, 18224), (363, 18242), (367, 18263), (374, 18281), (380, 18308), (385, 18329), (396, 18362), (404, 18410), (406, 18413), (410, 18425), (411, 18428), (421, 18455), (428, 18479), (440, 18524), (465, 18650), (470, 18674), (502, 18782), (514, 18833), (516, 18845), (517, 18848), (525, 18893), (527, 18908), (533, 18935), (537, 18959), (547, 19010), (552, 19028), (553, 19031), (554, 19043), (571, 19097), (580, 19139), (611, 19283), (622, 19337), (623, 19343), (624, 19346), (628, 19382), (629, 19385), (631, 19394), (632, 19421), (673, 19622), (696, 19793), (702, 19832), (708, 19871), (709, 19874),

Gene: NoShow_21 Start: 18882, Stop: 21146, Start Num: 161

Candidate Starts for NoShow_21:

(Start: 161 @18882 has 1 MA's), (199, 19005), (203, 19014), (234, 19098), (242, 19122), (245, 19131), (267, 19209), (284, 19311), (303, 19398), (339, 19488), (355, 19545), (360, 19563), (363, 19569), (366, 19584), (371, 19599), (374, 19608), (438, 19800), (460, 19908), (501, 20088), (506, 20109), (509, 20118), (520, 20175), (523, 20187), (527, 20217), (539, 20271), (547, 20304), (555, 20346), (561, 20364), (584, 20469), (595, 20499), (622, 20640), (625, 20652), (673, 20943), (696, 21126),

Gene: NoSleep_27 Start: 22023, Stop: 24419, Start Num: 126

Candidate Starts for NoSleep_27:

(Start: 126 @22023 has 125 MA's), (195, 22200), (206, 22221), (264, 22368), (294, 22542), (302, 22575), (309, 22611), (350, 22704), (367, 22764), (374, 22782), (406, 22914), (422, 22959), (453, 23091), (462, 23136), (478, 23196), (510, 23310), (514, 23331), (522, 23370), (525, 23391), (527, 23406), (560, 23556), (562, 23562), (565, 23580), (580, 23634), (598, 23718), (618, 23811), (661, 24057), (696, 24273), (706, 24357), (712, 24390),

Gene: NormanBulbieJr_18 Start: 17393, Stop: 19945, Start Num: 81

Candidate Starts for NormanBulbieJr_18:

(Start: 81 @17393 has 221 MA's), (121, 17474), (154, 17543), (159, 17552), (160, 17555), (167, 17573), (184, 17621), (201, 17666), (240, 17780), (241, 17783), (244, 17795), (253, 17816), (255, 17825), (256, 17828), (267, 17876), (273, 17906), (282, 17972), (288, 18005), (295, 18041), (301, 18065), (318, 18125), (319, 18128), (326, 18146), (355, 18209), (357, 18212), (363, 18230), (367, 18251), (374, 18269), (380, 18296), (385, 18317), (396, 18350), (403, 18392), (404, 18398), (406, 18401), (411, 18416), (421, 18443), (422, 18446), (428, 18467), (432, 18479), (440, 18512), (460, 18605), (483, 18713), (489, 18737), (495, 18743), (500, 18761), (501, 18764), (507, 18788), (514, 18818), (519, 18842), (525, 18878), (526, 18884), (527, 18893), (533, 18920), (543, 18983), (547, 19007), (548, 19022), (560, 19064), (575, 19115), (596, 19211), (598, 19226), (602, 19235), (607, 19259), (618, 19322), (626, 19358), (678, 19664), (685, 19709), (696, 19811),

Gene: Nova_30 Start: 24743, Stop: 27013, Start Num: 39

Candidate Starts for Nova_30:

(Start: 39 @24743 has 22 MA's), (59, 24878), (61, 24887), (102, 25061), (105, 25067), (108, 25079), (167, 25232), (173, 25247), (177, 25262), (213, 25376), (277, 25643), (279, 25649), (284, 25694), (301, 25781), (370, 25982), (372, 25988), (382, 26036), (394, 26066), (400, 26090), (449, 26279), (456, 26306), (465, 26354), (482, 26426), (497, 26465), (503, 26486), (506, 26501), (511, 26519), (517, 26549), (590, 26834), (600, 26876), (627, 27002),

Gene: Oaker_29 Start: 25939, Stop: 28782, Start Num: 35

Candidate Starts for Oaker_29:

(Start: 35 @25939 has 8 MA's), (56, 26071), (58, 26083), (60, 26092), (69, 26161), (71, 26167), (98, 26227), (107, 26248), (125, 26296), (139, 26338), (155, 26362), (168, 26395), (180, 26431), (185, 26443), (223, 26536), (241, 26593), (251, 26632), (288, 26827), (293, 26857), (303, 26899), (319, 26950), (354, 27040), (363, 27058), (382, 27139), (396, 27178), (400, 27199), (440, 27337), (446, 27376), (461, 27439), (484, 27541), (537, 27766), (616, 28129), (622, 28156), (658, 28399), (669, 28432), (672, 28456), (691, 28576), (701, 28654), (712, 28741), (714, 28756), (715, 28762),

Gene: Ochi17_18 Start: 17634, Stop: 20171, Start Num: 81

Candidate Starts for Ochi17_18:

(Start: 81 @17634 has 221 MA's), (92, 17655), (Start: 104 @17676 has 1 MA's), (121, 17715), (154, 17784), (159, 17793), (160, 17796), (167, 17814), (184, 17862), (240, 18021), (241, 18024), (255, 18066), (256, 18069), (273, 18147), (276, 18168), (277, 18171), (287, 18237), (288, 18246), (295, 18282), (302, 18312), (303, 18318), (316, 18360), (318, 18366), (319, 18369), (335, 18402), (338,

18408), (350, 18438), (357, 18459), (365, 18489), (367, 18498), (397, 18606), (400, 18618), (401, 18627), (402, 18630), (403, 18639), (404, 18645), (410, 18660), (411, 18663), (419, 18684), (432, 18726), (440, 18759), (469, 18900), (471, 18906), (483, 18960), (484, 18963), (495, 18990), (514, 19065), (516, 19077), (517, 19080), (528, 19146), (533, 19167), (534, 19170), (537, 19191), (547, 19242), (552, 19260), (553, 19263), (560, 19293), (565, 19317), (571, 19329), (595, 19434), (598, 19452), (602, 19461), (604, 19473), (610, 19509), (615, 19539), (620, 19560), (626, 19584), (630, 19620), (647, 19734), (652, 19776), (671, 19854), (681, 19911), (685, 19935), (692, 19989), (696, 20037), (703, 20079), (705, 20103), (706, 20106),

Gene: OfUltron_18 Start: 17634, Stop: 20171, Start Num: 81

Candidate Starts for OfUltron_18:

(Start: 81 @17634 has 221 MA's), (92, 17655), (Start: 104 @17676 has 1 MA's), (121, 17715), (154, 17784), (159, 17793), (160, 17796), (167, 17814), (184, 17862), (240, 18021), (241, 18024), (255, 18066), (256, 18069), (273, 18147), (276, 18168), (277, 18171), (287, 18237), (288, 18246), (295, 18282), (302, 18312), (303, 18318), (316, 18360), (318, 18366), (319, 18369), (335, 18402), (338, 18408), (350, 18438), (357, 18459), (365, 18489), (367, 18498), (397, 18606), (400, 18618), (401, 18627), (402, 18630), (403, 18639), (404, 18645), (410, 18660), (411, 18663), (419, 18684), (432, 18726), (440, 18759), (469, 18900), (471, 18906), (483, 18960), (484, 18963), (495, 18990), (514, 19065), (516, 19077), (517, 19080), (528, 19146), (533, 19167), (534, 19170), (537, 19191), (547, 19242), (552, 19260), (553, 19263), (560, 19293), (565, 19317), (571, 19329), (595, 19434), (598, 19452), (602, 19461), (604, 19473), (610, 19509), (615, 19539), (620, 19560), (626, 19584), (630, 19620), (647, 19734), (652, 19776), (671, 19854), (681, 19911), (685, 19935), (692, 19989), (696, 20037), (703, 20079), (705, 20103), (706, 20106),

Gene: Ogopogo_21 Start: 17660, Stop: 20149, Start Num: 81

Candidate Starts for Ogopogo_21:

(Start: 81 @17660 has 221 MA's), (92, 17681), (Start: 104 @17702 has 1 MA's), (122, 17741), (154, 17810), (159, 17819), (160, 17822), (167, 17840), (184, 17888), (202, 17936), (229, 17990), (241, 18026), (242, 18032), (243, 18035), (254, 18053), (260, 18077), (266, 18101), (279, 18164), (292, 18248), (295, 18257), (302, 18281), (305, 18305), (316, 18329), (318, 18335), (326, 18356), (338, 18377), (350, 18407), (359, 18437), (365, 18458), (391, 18551), (396, 18566), (397, 18575), (401, 18596), (402, 18599), (428, 18683), (429, 18686), (432, 18695), (439, 18722), (441, 18731), (447, 18770), (451, 18791), (453, 18794), (461, 18830), (465, 18851), (483, 18929), (484, 18932), (504, 18986), (516, 19046), (534, 19139), (536, 19157), (537, 19160), (545, 19196), (557, 19250), (560, 19259), (578, 19337), (581, 19355), (589, 19391), (591, 19394), (595, 19412), (596, 19415), (598, 19430), (604, 19451), (610, 19487), (612, 19499), (626, 19562), (630, 19595), (639, 19682), (649, 19730), (651, 19754), (657, 19781), (661, 19790), (670, 19829), (677, 19868), (681, 19892), (684, 19913), (696, 20009), (700, 20030), (709, 20093), (712, 20120), (713, 20129),

Gene: Oksu_19 Start: 17479, Stop: 20016, Start Num: 81

Candidate Starts for Oksu_19:

(Start: 81 @17479 has 221 MA's), (92, 17500), (Start: 104 @17521 has 1 MA's), (121, 17560), (154, 17629), (159, 17638), (160, 17641), (167, 17659), (184, 17707), (238, 17860), (241, 17869), (256, 17914), (276, 18013), (277, 18016), (287, 18082), (302, 18157), (303, 18163), (305, 18181), (316, 18205), (318, 18211), (319, 18214), (335, 18247), (338, 18253), (350, 18283), (357, 18304), (365, 18334), (367, 18343), (373, 18358), (374, 18361), (401, 18472), (402, 18475), (403, 18484), (404, 18490), (410, 18505), (411, 18508), (419, 18529), (432, 18571), (440, 18604), (469, 18745), (471, 18751), (483, 18805), (484, 18808), (495, 18835), (514, 18910), (516, 18922), (517, 18925), (528, 18991), (533, 19012), (534, 19015), (537, 19036), (547, 19087), (552, 19105), (553, 19108), (560, 19138), (565, 19162), (571, 19174), (595, 19279), (598, 19297), (602, 19306), (604, 19318), (610, 19354), (615, 19384), (620, 19405), (626, 19429), (630, 19465), (647, 19579), (652, 19621), (671, 19699), (681, 19756), (685, 19780), (692, 19834), (696, 19882), (703, 19924), (705, 19948), (706, 19951),

Gene: OldBen_18 Start: 17370, Stop: 19907, Start Num: 81

Candidate Starts for OldBen_18:

(76, 17358), (Start: 81 @17370 has 221 MA's), (92, 17391), (Start: 104 @17412 has 1 MA's), (121, 17451), (154, 17520), (159, 17529), (160, 17532), (167, 17550), (184, 17598), (202, 17646), (240, 17757), (241, 17760), (256, 17805), (273, 17883), (277, 17907), (287, 17973), (295, 18018), (302, 18048), (303, 18054), (305, 18072), (316, 18096), (319, 18105), (335, 18138), (338, 18144), (350, 18174), (363, 18213), (365, 18225), (367, 18234), (373, 18249), (374, 18252), (401, 18363), (402, 18366), (403, 18375), (404, 18381), (410, 18396), (411, 18399), (419, 18420), (428, 18450), (432, 18462), (440, 18495), (462, 18606), (463, 18609), (469, 18636), (471, 18642), (483, 18696), (484, 18699), (514, 18801), (516, 18813), (517, 18816), (528, 18882), (534, 18906), (537, 18927), (539, 18936), (552, 18996), (553, 18999), (562, 19035), (565, 19053), (574, 19074), (579, 19101), (595, 19170), (598, 19188), (602, 19197), (604, 19209), (610, 19245), (620, 19296), (624, 19314), (630, 19356), (635, 19410), (652, 19512), (681, 19647), (685, 19671), (692, 19725), (700, 19794), (705, 19839), (706, 19842),

Gene: OlympiaSaint_18 Start: 17593, Stop: 20145, Start Num: 81

Candidate Starts for OlympiaSaint_18:

(Start: 81 @17593 has 221 MA's), (121, 17674), (154, 17743), (159, 17752), (160, 17755), (167, 17773), (184, 17821), (201, 17866), (240, 17980), (241, 17983), (244, 17995), (253, 18016), (255, 18025), (256, 18028), (267, 18076), (273, 18106), (282, 18172), (288, 18205), (295, 18241), (301, 18265), (318, 18325), (319, 18328), (326, 18346), (355, 18409), (357, 18412), (363, 18430), (367, 18451), (374, 18469), (380, 18496), (385, 18517), (396, 18550), (403, 18592), (404, 18598), (406, 18601), (411, 18616), (421, 18643), (422, 18646), (428, 18667), (432, 18679), (440, 18712), (460, 18805), (483, 18913), (489, 18937), (495, 18943), (500, 18961), (501, 18964), (507, 18988), (514, 19018), (519, 19042), (525, 19078), (526, 19084), (527, 19093), (533, 19120), (543, 19183), (547, 19207), (548, 19222), (560, 19264), (575, 19315), (596, 19411), (598, 19426), (602, 19435), (607, 19459), (618, 19522), (626, 19558), (678, 19864), (685, 19909), (696, 20011),

Gene: Omega_38 Start: 31431, Stop: 33986, Start Num: 81

Candidate Starts for Omega_38:

(Start: 81 @31431 has 221 MA's), (167, 31626), (178, 31662), (184, 31677), (202, 31725), (240, 31836), (241, 31839), (252, 31869), (256, 31884), (273, 31962), (277, 31986), (287, 32052), (295, 32097), (302, 32127), (303, 32133), (305, 32151), (316, 32175), (319, 32184), (335, 32217), (338, 32223), (350, 32253), (363, 32292), (365, 32304), (367, 32313), (373, 32328), (374, 32331), (401, 32442), (402, 32445), (403, 32454), (404, 32460), (410, 32475), (411, 32478), (419, 32499), (428, 32529), (432, 32541), (440, 32574), (453, 32640), (462, 32685), (463, 32688), (469, 32715), (471, 32721), (483, 32775), (484, 32778), (511, 32865), (514, 32880), (516, 32892), (517, 32895), (528, 32961), (537, 33006), (539, 33015), (552, 33075), (553, 33078), (562, 33114), (565, 33132), (571, 33144), (574, 33153), (579, 33180), (595, 33249), (598, 33267), (602, 33276), (604, 33288), (610, 33324), (615, 33354), (620, 33375), (626, 33399), (630, 33435), (635, 33489), (647, 33549), (652, 33591), (681, 33726), (685, 33750), (692, 33804), (696, 33852), (703, 33894), (705, 33918), (706, 33921),

Gene: Optimus_37 Start: 30775, Stop: 33330, Start Num: 81

Candidate Starts for Optimus_37:

(66, 30718), (Start: 81 @30775 has 221 MA's), (167, 30970), (178, 31006), (184, 31021), (202, 31069), (238, 31174), (241, 31183), (256, 31228), (276, 31327), (277, 31330), (287, 31396), (302, 31471), (303, 31477), (305, 31495), (316, 31519), (319, 31528), (335, 31561), (338, 31567), (350, 31597), (363, 31636), (365, 31648), (367, 31657), (401, 31786), (402, 31789), (403, 31798), (404, 31804), (410, 31819), (411, 31822), (419, 31843), (428, 31873), (432, 31885), (440, 31918), (462, 32029), (463, 32032), (469, 32059), (471, 32065), (483, 32119), (484, 32122), (514, 32224), (516, 32236), (517, 32239), (528, 32305), (534, 32329), (537, 32350), (547, 32401), (552, 32419), (553, 32422),

(560, 32452), (565, 32476), (571, 32488), (574, 32497), (595, 32593), (598, 32611), (602, 32620), (604, 32632), (615, 32698), (618, 32707), (620, 32719), (630, 32779), (652, 32935), (681, 33070), (685, 33094), (692, 33148), (700, 33217), (705, 33262), (706, 33265),

Gene: OrionPax_27 Start: 22029, Stop: 24425, Start Num: 126

Candidate Starts for OrionPax_27:

(Start: 126 @22029 has 125 MA's), (195, 22206), (206, 22227), (264, 22374), (294, 22548), (302, 22581), (309, 22617), (350, 22710), (367, 22770), (374, 22788), (406, 22920), (422, 22965), (453, 23097), (462, 23142), (478, 23202), (510, 23316), (514, 23337), (522, 23376), (525, 23397), (527, 23412), (560, 23562), (562, 23568), (565, 23586), (580, 23640), (598, 23724), (618, 23817), (661, 24063), (696, 24279), (706, 24363), (712, 24396),

Gene: Oscar_26 Start: 20113, Stop: 22572, Start Num: 134

Candidate Starts for Oscar_26:

(Start: 134 @20113 has 92 MA's), (154, 20161), (196, 20284), (219, 20341), (224, 20353), (256, 20446), (261, 20470), (272, 20521), (303, 20683), (330, 20794), (340, 20833), (347, 20857), (380, 20980), (397, 21052), (417, 21139), (435, 21205), (438, 21220), (458, 21322), (467, 21376), (481, 21436), (504, 21514), (505, 21526), (508, 21535), (517, 21577), (525, 21622), (527, 21637), (546, 21724), (551, 21748), (567, 21820), (581, 21877), (608, 21988), (610, 22012), (613, 22033), (624, 22084), (641, 22213), (667, 22318), (696, 22543),

Gene: Ovechkin_18 Start: 17427, Stop: 19964, Start Num: 81

Candidate Starts for Ovechkin_18:

(Start: 81 @17427 has 221 MA's), (92, 17448), (Start: 104 @17469 has 1 MA's), (119, 17505), (121, 17508), (154, 17577), (159, 17586), (160, 17589), (167, 17607), (178, 17640), (184, 17655), (202, 17703), (240, 17814), (241, 17817), (252, 17847), (255, 17859), (256, 17862), (273, 17940), (277, 17964), (287, 18030), (295, 18075), (302, 18105), (303, 18111), (305, 18129), (316, 18153), (319, 18162), (335, 18195), (338, 18201), (350, 18231), (363, 18270), (365, 18282), (367, 18291), (373, 18306), (374, 18309), (401, 18420), (402, 18423), (403, 18432), (404, 18438), (410, 18453), (411, 18456), (419, 18477), (428, 18507), (432, 18519), (440, 18552), (462, 18663), (463, 18666), (469, 18693), (471, 18699), (483, 18753), (484, 18756), (514, 18858), (516, 18870), (517, 18873), (528, 18939), (534, 18963), (537, 18984), (539, 18993), (552, 19053), (553, 19056), (562, 19092), (565, 19110), (571, 19122), (574, 19131), (579, 19158), (595, 19227), (598, 19245), (602, 19254), (604, 19266), (610, 19302), (615, 19332), (620, 19353), (626, 19377), (630, 19413), (635, 19467), (647, 19527), (652, 19569), (671, 19647), (681, 19704), (685, 19728), (692, 19782), (696, 19830), (703, 19872), (705, 19896), (706, 19899),

Gene: OwlsT2W_20 Start: 17765, Stop: 20317, Start Num: 81

Candidate Starts for OwlsT2W_20:

(Start: 81 @17765 has 221 MA's), (128, 17855), (154, 17915), (159, 17924), (160, 17927), (167, 17945), (184, 17993), (201, 18038), (240, 18152), (241, 18155), (244, 18167), (253, 18188), (255, 18197), (256, 18200), (273, 18278), (282, 18344), (288, 18377), (295, 18413), (301, 18437), (318, 18497), (319, 18500), (326, 18518), (355, 18581), (357, 18584), (363, 18602), (367, 18623), (374, 18641), (380, 18668), (385, 18689), (396, 18722), (403, 18764), (404, 18770), (406, 18773), (411, 18788), (421, 18815), (422, 18818), (428, 18839), (432, 18851), (440, 18884), (460, 18977), (483, 19085), (489, 19109), (495, 19115), (500, 19133), (501, 19136), (507, 19160), (514, 19190), (519, 19214), (525, 19250), (526, 19256), (527, 19265), (533, 19292), (543, 19355), (547, 19379), (548, 19394), (560, 19436), (575, 19487), (596, 19583), (598, 19598), (602, 19607), (607, 19631), (618, 19694), (626, 19730), (678, 20036), (685, 20081), (696, 20183),

Gene: PBI1_30 Start: 24247, Stop: 26517, Start Num: 39

Candidate Starts for PBI1_30:

(Start: 39 @24247 has 22 MA's), (59, 24382), (61, 24391), (102, 24565), (105, 24571), (108, 24583), (167, 24736), (173, 24751), (177, 24766), (277, 25147), (279, 25153), (284, 25198), (301, 25285), (370, 25486), (372, 25492), (382, 25540), (394, 25570), (400, 25594), (449, 25783), (456, 25810), (465, 25858), (482, 25930), (497, 25969), (503, 25990), (506, 26005), (511, 26023), (517, 26053), (536, 26137), (590, 26338), (600, 26380), (627, 26506),

Gene: PHappiness_18 Start: 17378, Stop: 19915, Start Num: 81

Candidate Starts for PHappiness_18:

(76, 17366), (Start: 81 @17378 has 221 MA's), (92, 17399), (Start: 104 @17420 has 1 MA's), (121, 17459), (154, 17528), (159, 17537), (160, 17540), (167, 17558), (184, 17606), (202, 17654), (240, 17765), (241, 17768), (256, 17813), (273, 17891), (277, 17915), (287, 17981), (295, 18026), (302, 18056), (303, 18062), (305, 18080), (316, 18104), (319, 18113), (335, 18146), (338, 18152), (350, 18182), (363, 18221), (365, 18233), (367, 18242), (373, 18257), (374, 18260), (401, 18371), (402, 18374), (403, 18383), (404, 18389), (410, 18404), (411, 18407), (419, 18428), (428, 18458), (432, 18470), (440, 18503), (462, 18614), (463, 18617), (469, 18644), (471, 18650), (483, 18704), (484, 18707), (514, 18809), (516, 18821), (517, 18824), (528, 18890), (534, 18914), (537, 18935), (539, 18944), (552, 19004), (553, 19007), (562, 19043), (565, 19061), (574, 19082), (579, 19109), (595, 19178), (598, 19196), (602, 19205), (604, 19217), (610, 19253), (620, 19304), (624, 19322), (630, 19364), (635, 19418), (652, 19520), (681, 19655), (685, 19679), (692, 19733), (700, 19802), (705, 19847), (706, 19850),

Gene: PLOT_31 Start: 24319, Stop: 26589, Start Num: 39

Candidate Starts for PLOT_31:

(Start: 39 @24319 has 22 MA's), (59, 24454), (61, 24463), (102, 24637), (105, 24643), (108, 24655), (167, 24808), (173, 24823), (177, 24838), (277, 25219), (279, 25225), (284, 25270), (301, 25357), (370, 25558), (372, 25564), (382, 25612), (394, 25642), (400, 25666), (449, 25855), (456, 25882), (465, 25930), (482, 26002), (497, 26041), (503, 26062), (506, 26077), (511, 26095), (517, 26125), (536, 26209), (590, 26410), (600, 26452), (627, 26578),

Gene: PMC_18 Start: 17383, Stop: 19920, Start Num: 81

Candidate Starts for PMC_18:

(Start: 81 @17383 has 221 MA's), (128, 17473), (154, 17533), (159, 17542), (160, 17545), (167, 17563), (184, 17611), (202, 17659), (238, 17764), (240, 17770), (241, 17773), (255, 17815), (256, 17818), (277, 17920), (287, 17986), (295, 18031), (302, 18061), (303, 18067), (305, 18085), (316, 18109), (319, 18118), (335, 18151), (338, 18157), (357, 18208), (363, 18226), (365, 18238), (367, 18247), (373, 18262), (375, 18268), (401, 18376), (403, 18388), (404, 18394), (410, 18409), (411, 18412), (419, 18433), (428, 18463), (432, 18475), (440, 18508), (453, 18574), (462, 18619), (463, 18622), (469, 18649), (471, 18655), (483, 18709), (484, 18712), (495, 18739), (514, 18814), (516, 18826), (517, 18829), (528, 18895), (533, 18916), (534, 18919), (539, 18949), (547, 18991), (552, 19009), (553, 19012), (560, 19042), (565, 19066), (571, 19078), (574, 19087), (595, 19183), (598, 19201), (602, 19210), (604, 19222), (615, 19288), (618, 19297), (620, 19309), (630, 19369), (652, 19525), (681, 19660), (685, 19684), (692, 19738), (700, 19807), (705, 19852), (706, 19855),

Gene: Pacc40_18 Start: 17568, Stop: 20105, Start Num: 81

Candidate Starts for Pacc40_18:

(76, 17556), (Start: 81 @17568 has 221 MA's), (92, 17589), (Start: 104 @17610 has 1 MA's), (121, 17649), (154, 17718), (159, 17727), (160, 17730), (167, 17748), (184, 17796), (202, 17844), (240, 17955), (241, 17958), (256, 18003), (273, 18081), (277, 18105), (287, 18171), (295, 18216), (302, 18246), (303, 18252), (305, 18270), (316, 18294), (319, 18303), (335, 18336), (338, 18342), (350, 18372), (363, 18411), (365, 18423), (367, 18432), (373, 18447), (374, 18450), (401, 18561), (402, 18564), (403, 18573), (404, 18579), (410, 18594), (411, 18597), (419, 18618), (428, 18648), (432, 18660), (440, 18693), (462, 18804), (463, 18807), (469, 18834), (471, 18840), (483, 18894), (484, 18897), (514, 18999), (516, 19011), (517, 19014), (528, 19080), (534, 19104), (537, 19125), (539,

19134), (552, 19194), (553, 19197), (562, 19233), (565, 19251), (574, 19272), (579, 19299), (595, 19368), (598, 19386), (602, 19395), (604, 19407), (610, 19443), (620, 19494), (624, 19512), (630, 19554), (635, 19608), (652, 19710), (681, 19845), (685, 19869), (692, 19923), (700, 19992), (705, 20037), (706, 20040),

Gene: Pace1224_22 Start: 20643, Stop: 23102, Start Num: 90

Candidate Starts for Pace1224_22:

(Start: 90 @20643 has 8 MA's), (111, 20703), (131, 20751), (204, 20946), (285, 21234), (306, 21336), (318, 21360), (368, 21504), (373, 21519), (395, 21600), (413, 21675), (432, 21732), (438, 21756), (445, 21792), (483, 21978), (488, 21999), (504, 22047), (506, 22062), (520, 22128), (527, 22170), (547, 22263), (550, 22281), (565, 22347), (582, 22428), (605, 22494), (630, 22647), (640, 22737), (652, 22806), (661, 22842), (680, 22935), (693, 23040), (695, 23076),

Gene: Padfoot_27 Start: 20912, Stop: 23344, Start Num: 134

Candidate Starts for Padfoot_27:

(Start: 134 @20912 has 92 MA's), (174, 21011), (263, 21272), (267, 21293), (305, 21500), (318, 21533), (323, 21563), (347, 21635), (352, 21659), (401, 21857), (412, 21902), (416, 21914), (420, 21923), (433, 21974), (467, 22154), (472, 22169), (487, 22238), (492, 22250), (508, 22313), (517, 22355), (525, 22394), (526, 22400), (527, 22409), (532, 22430), (544, 22490), (574, 22607), (581, 22649), (601, 22721), (603, 22730), (608, 22751), (619, 22823), (623, 22844), (635, 22940), (665, 23087), (679, 23168), (696, 23315),

Gene: Padpat_27 Start: 20872, Stop: 23304, Start Num: 134

Candidate Starts for Padpat_27:

(Start: 134 @20872 has 92 MA's), (174, 20971), (263, 21232), (267, 21253), (305, 21460), (318, 21493), (323, 21523), (347, 21595), (352, 21619), (365, 21664), (401, 21817), (412, 21862), (416, 21874), (420, 21883), (433, 21934), (467, 22114), (472, 22129), (487, 22198), (492, 22210), (508, 22273), (517, 22315), (525, 22354), (526, 22360), (527, 22369), (532, 22390), (544, 22450), (574, 22567), (581, 22609), (601, 22681), (603, 22690), (608, 22711), (619, 22783), (623, 22804), (635, 22900), (647, 22963), (679, 23128), (696, 23275),

Gene: Palpatine_26 Start: 22301, Stop: 24697, Start Num: 126

Candidate Starts for Palpatine_26:

(Start: 126 @22301 has 125 MA's), (195, 22478), (206, 22499), (264, 22646), (288, 22787), (294, 22820), (302, 22853), (309, 22889), (350, 22982), (367, 23042), (374, 23060), (406, 23192), (422, 23237), (453, 23369), (462, 23414), (478, 23474), (510, 23588), (514, 23609), (522, 23648), (525, 23669), (527, 23684), (560, 23834), (562, 23840), (565, 23858), (580, 23912), (598, 23996), (618, 24089), (661, 24335), (696, 24551), (706, 24635), (712, 24668),

Gene: Paperbeatsrock_28 Start: 23264, Stop: 25660, Start Num: 126

Candidate Starts for Paperbeatsrock_28:

(Start: 126 @23264 has 125 MA's), (195, 23441), (206, 23462), (264, 23609), (288, 23750), (294, 23783), (302, 23816), (309, 23852), (350, 23945), (367, 24005), (374, 24023), (406, 24155), (422, 24200), (453, 24332), (462, 24377), (478, 24437), (510, 24551), (514, 24572), (522, 24611), (525, 24632), (527, 24647), (560, 24797), (562, 24803), (565, 24821), (580, 24875), (598, 24959), (618, 25052), (661, 25298), (696, 25514), (706, 25598), (712, 25631),

Gene: Papyrus_30 Start: 24299, Stop: 27793, Start Num: 2

Candidate Starts for Papyrus_30:

(Start: 2 @24299 has 8 MA's), (4, 24311), (Start: 5 @24323 has 1 MA's), (8, 24506), (11, 24587), (17, 24686), (19, 24710), (20, 24728), (37, 24887), (41, 24920), (48, 24968), (54, 25007), (75, 25133), (77, 25142), (145, 25328), (222, 25529), (266, 25706), (282, 25805), (288, 25838), (297, 25883), (313, 25946), (343, 26015), (366, 26093), (367, 26099), (379, 26144), (380, 26147), (401, 26231), (465,

26486), (475, 26525), (512, 26672), (513, 26678), (545, 26852), (553, 26885), (557, 26906), (560, 26915), (566, 26942), (620, 27185), (638, 27329), (680, 27527), (684, 27557), (692, 27614), (695, 27650), (700, 27677), (701, 27689),

Gene: Pat3_25 Start: 21010, Stop: 23406, Start Num: 126

Candidate Starts for Pat3_25:

(Start: 126 @21010 has 125 MA's), (195, 21187), (206, 21208), (264, 21355), (288, 21496), (294, 21529), (302, 21562), (309, 21598), (350, 21691), (367, 21751), (374, 21769), (406, 21901), (422, 21946), (453, 22078), (462, 22123), (510, 22297), (514, 22318), (522, 22357), (525, 22378), (527, 22393), (562, 22549), (565, 22567), (580, 22621), (598, 22705), (654, 23029), (696, 23260), (706, 23344), (712, 23377),

Gene: Peel_27 Start: 20912, Stop: 23344, Start Num: 134

Candidate Starts for Peel_27:

(Start: 134 @20912 has 92 MA's), (174, 21011), (263, 21272), (267, 21293), (305, 21500), (318, 21533), (323, 21563), (347, 21635), (352, 21659), (401, 21857), (412, 21902), (416, 21914), (420, 21923), (433, 21974), (467, 22154), (472, 22169), (487, 22238), (492, 22250), (508, 22313), (517, 22355), (525, 22394), (526, 22400), (527, 22409), (532, 22430), (544, 22490), (574, 22607), (581, 22649), (601, 22721), (603, 22730), (608, 22751), (619, 22823), (623, 22844), (635, 22940), (665, 23087), (679, 23168), (696, 23315),

Gene: Penelope2018_30 Start: 24316, Stop: 26586, Start Num: 39

Candidate Starts for Penelope2018_30:

(Start: 39 @24316 has 22 MA's), (59, 24451), (61, 24460), (102, 24634), (105, 24640), (108, 24652), (167, 24805), (173, 24820), (177, 24835), (277, 25216), (279, 25222), (284, 25267), (301, 25354), (372, 25561), (382, 25609), (394, 25639), (400, 25663), (449, 25852), (456, 25879), (465, 25927), (482, 25999), (497, 26038), (503, 26059), (506, 26074), (511, 26092), (517, 26122), (536, 26206), (590, 26407), (600, 26449), (627, 26575),

Gene: Petra64142_28 Start: 22744, Stop: 25140, Start Num: 126

Candidate Starts for Petra64142_28:

(Start: 126 @22744 has 125 MA's), (195, 22921), (206, 22942), (264, 23089), (288, 23230), (294, 23263), (302, 23296), (309, 23332), (350, 23425), (367, 23485), (374, 23503), (406, 23635), (422, 23680), (453, 23812), (462, 23857), (478, 23917), (510, 24031), (514, 24052), (522, 24091), (525, 24112), (527, 24127), (560, 24277), (562, 24283), (565, 24301), (580, 24355), (598, 24439), (618, 24532), (661, 24778), (696, 24994), (706, 25078), (712, 25111),

Gene: Phaja_26 Start: 22460, Stop: 24856, Start Num: 126

Candidate Starts for Phaja_26:

(Start: 126 @22460 has 125 MA's), (195, 22637), (206, 22658), (264, 22805), (288, 22946), (294, 22979), (302, 23012), (309, 23048), (350, 23141), (367, 23201), (374, 23219), (415, 23375), (422, 23396), (450, 23516), (453, 23528), (462, 23573), (514, 23768), (515, 23774), (517, 23783), (525, 23828), (527, 23843), (562, 23999), (565, 24017), (568, 24026), (581, 24080), (598, 24155), (599, 24158), (634, 24368), (636, 24380), (661, 24494), (696, 24710), (706, 24794), (710, 24818), (712, 24827),

Gene: Phalaborwa_30 Start: 24343, Stop: 26613, Start Num: 39

Candidate Starts for Phalaborwa_30:

(Start: 39 @24343 has 22 MA's), (59, 24478), (61, 24487), (102, 24661), (108, 24679), (112, 24694), (167, 24832), (177, 24862), (195, 24928), (196, 24931), (258, 25147), (277, 25243), (279, 25249), (284, 25294), (301, 25381), (331, 25477), (346, 25507), (365, 25567), (370, 25582), (372, 25588), (382, 25636), (400, 25690), (407, 25720), (449, 25879), (456, 25906), (459, 25915), (465, 25954), (482, 26026), (503, 26086), (506, 26101), (511, 26119), (517, 26149), (530, 26203), (536, 26233),

(590, 26434), (627, 26602),

Gene: Phalconet_18 Start: 17448, Stop: 19979, Start Num: 81

Candidate Starts for Phalconet_18:

(76, 17436), (Start: 81 @17448 has 221 MA's), (92, 17469), (Start: 104 @17490 has 1 MA's), (121, 17529), (154, 17598), (159, 17607), (160, 17610), (178, 17661), (184, 17676), (202, 17718), (240, 17829), (241, 17832), (252, 17862), (256, 17877), (273, 17955), (287, 18045), (295, 18090), (302, 18120), (303, 18126), (305, 18144), (316, 18168), (319, 18177), (335, 18210), (338, 18216), (350, 18246), (363, 18285), (365, 18297), (367, 18306), (373, 18321), (374, 18324), (401, 18435), (402, 18438), (403, 18447), (404, 18453), (410, 18468), (411, 18471), (419, 18492), (428, 18522), (432, 18534), (440, 18567), (453, 18633), (462, 18678), (463, 18681), (469, 18708), (471, 18714), (483, 18768), (484, 18771), (511, 18858), (514, 18873), (516, 18885), (517, 18888), (528, 18954), (537, 18999), (539, 19008), (552, 19068), (553, 19071), (562, 19107), (565, 19125), (571, 19137), (574, 19146), (579, 19173), (595, 19242), (598, 19260), (602, 19269), (604, 19281), (610, 19317), (615, 19347), (620, 19368), (626, 19392), (630, 19428), (635, 19482), (647, 19542), (652, 19584), (671, 19662), (681, 19719), (685, 19743), (692, 19797), (696, 19845), (703, 19887), (705, 19911), (706, 19914),

Gene: Phanphagia_18 Start: 17450, Stop: 19927, Start Num: 81

Candidate Starts for Phanphagia_18:

(78, 17438), (Start: 81 @17450 has 221 MA's), (92, 17471), (Start: 104 @17492 has 1 MA's), (122, 17531), (154, 17600), (159, 17609), (160, 17612), (167, 17630), (178, 17663), (184, 17678), (224, 17765), (229, 17780), (241, 17816), (242, 17822), (256, 17855), (260, 17867), (292, 18038), (295, 18047), (302, 18071), (318, 18125), (335, 18161), (338, 18167), (350, 18197), (359, 18227), (365, 18248), (367, 18257), (391, 18341), (404, 18404), (411, 18422), (415, 18431), (422, 18452), (423, 18455), (428, 18473), (432, 18485), (439, 18512), (441, 18521), (450, 18572), (451, 18581), (453, 18584), (460, 18611), (461, 18620), (465, 18641), (483, 18719), (484, 18722), (515, 18830), (516, 18836), (525, 18884), (533, 18926), (534, 18929), (537, 18950), (538, 18956), (539, 18959), (545, 18989), (578, 19130), (581, 19148), (587, 19181), (595, 19205), (596, 19208), (598, 19223), (604, 19244), (610, 19280), (611, 19286), (616, 19313), (622, 19340), (639, 19475), (649, 19523), (651, 19547), (653, 19553), (661, 19571), (681, 19670), (684, 19691), (687, 19709), (696, 19787), (700, 19808), (709, 19871), (710, 19889), (713, 19907),

Gene: Pharsalus_27 Start: 23064, Stop: 25460, Start Num: 126

Candidate Starts for Pharsalus_27:

(Start: 126 @23064 has 125 MA's), (195, 23241), (206, 23262), (264, 23409), (288, 23550), (294, 23583), (302, 23616), (309, 23652), (350, 23745), (367, 23805), (374, 23823), (406, 23955), (422, 24000), (453, 24132), (462, 24177), (478, 24237), (510, 24351), (514, 24372), (522, 24411), (525, 24432), (527, 24447), (560, 24597), (562, 24603), (565, 24621), (580, 24675), (598, 24759), (618, 24852), (661, 25098), (696, 25314), (706, 25398), (712, 25431),

Gene: Phasih_19 Start: 17939, Stop: 20476, Start Num: 81

Candidate Starts for Phasih_19:

(Start: 81 @17939 has 221 MA's), (92, 17960), (Start: 104 @17981 has 1 MA's), (121, 18020), (154, 18089), (159, 18098), (160, 18101), (167, 18119), (178, 18152), (184, 18167), (238, 18320), (241, 18329), (256, 18374), (276, 18473), (277, 18476), (287, 18542), (302, 18617), (303, 18623), (316, 18665), (318, 18671), (319, 18674), (335, 18707), (338, 18713), (350, 18743), (357, 18764), (365, 18794), (367, 18803), (373, 18818), (374, 18821), (401, 18932), (402, 18935), (403, 18944), (404, 18950), (410, 18965), (411, 18968), (419, 18989), (428, 19019), (432, 19031), (440, 19064), (462, 19175), (463, 19178), (469, 19205), (471, 19211), (483, 19265), (484, 19268), (511, 19355), (514, 19370), (516, 19382), (517, 19385), (528, 19451), (534, 19475), (537, 19496), (539, 19505), (547, 19547), (552, 19565), (553, 19568), (560, 19598), (565, 19622), (571, 19634), (574, 19643), (595, 19739), (598, 19757), (602, 19766), (604, 19778), (610, 19814), (615, 19844), (618, 19853), (620,

19865), (630, 19925), (635, 19979), (647, 20039), (652, 20081), (681, 20216), (685, 20240), (692, 20294), (696, 20342), (703, 20384), (705, 20408), (706, 20411),

Gene: PhatBacter_26 Start: 22312, Stop: 24708, Start Num: 126

Candidate Starts for PhatBacter_26:

(Start: 126 @22312 has 125 MA's), (195, 22489), (206, 22510), (264, 22657), (288, 22798), (294, 22831), (302, 22864), (309, 22900), (350, 22993), (367, 23053), (374, 23071), (406, 23203), (422, 23248), (453, 23380), (462, 23425), (478, 23485), (510, 23599), (514, 23620), (522, 23659), (525, 23680), (527, 23695), (560, 23845), (562, 23851), (565, 23869), (580, 23923), (598, 24007), (618, 24100), (661, 24346), (696, 24562), (706, 24646), (712, 24679),

Gene: Phatniss_19 Start: 17901, Stop: 20438, Start Num: 81

Candidate Starts for Phatniss_19:

(76, 17889), (Start: 81 @17901 has 221 MA's), (92, 17922), (Start: 104 @17943 has 1 MA's), (121, 17982), (154, 18051), (159, 18060), (160, 18063), (167, 18081), (178, 18114), (184, 18129), (202, 18177), (238, 18282), (241, 18291), (255, 18333), (256, 18336), (273, 18414), (277, 18438), (287, 18504), (295, 18549), (302, 18579), (303, 18585), (305, 18603), (316, 18627), (319, 18636), (335, 18669), (338, 18675), (350, 18705), (363, 18744), (365, 18756), (367, 18765), (373, 18780), (374, 18783), (401, 18894), (403, 18906), (404, 18912), (410, 18927), (411, 18930), (419, 18951), (428, 18981), (432, 18993), (440, 19026), (453, 19092), (462, 19137), (463, 19140), (469, 19167), (471, 19173), (483, 19227), (484, 19230), (495, 19257), (514, 19332), (516, 19344), (517, 19347), (528, 19413), (534, 19437), (539, 19467), (547, 19509), (552, 19527), (553, 19530), (562, 19566), (565, 19584), (574, 19605), (579, 19632), (595, 19701), (598, 19719), (602, 19728), (604, 19740), (610, 19776), (615, 19806), (618, 19815), (620, 19827), (630, 19887), (635, 19941), (647, 20001), (652, 20043), (671, 20121), (681, 20178), (685, 20202), (692, 20256), (696, 20304), (703, 20346), (705, 20370), (706, 20373),

Gene: Phaux_25 Start: 22310, Stop: 24706, Start Num: 126

Candidate Starts for Phaux_25:

(Start: 126 @22310 has 125 MA's), (195, 22487), (206, 22508), (264, 22655), (288, 22796), (294, 22829), (302, 22862), (309, 22898), (350, 22991), (367, 23051), (374, 23069), (406, 23201), (422, 23246), (453, 23378), (462, 23423), (478, 23483), (510, 23597), (514, 23618), (522, 23657), (525, 23678), (527, 23693), (560, 23843), (562, 23849), (565, 23867), (580, 23921), (598, 24005), (618, 24098), (661, 24344), (696, 24560), (706, 24644), (712, 24677),

Gene: PhesterPhotato_18 Start: 17419, Stop: 19956, Start Num: 81

Candidate Starts for PhesterPhotato_18:

(76, 17407), (Start: 81 @17419 has 221 MA's), (92, 17440), (Start: 104 @17461 has 1 MA's), (121, 17500), (154, 17569), (159, 17578), (160, 17581), (167, 17599), (178, 17632), (184, 17647), (202, 17695), (240, 17806), (241, 17809), (252, 17839), (256, 17854), (273, 17932), (277, 17956), (287, 18022), (295, 18067), (302, 18097), (303, 18103), (305, 18121), (316, 18145), (319, 18154), (335, 18187), (338, 18193), (350, 18223), (363, 18262), (365, 18274), (367, 18283), (373, 18298), (374, 18301), (401, 18412), (402, 18415), (403, 18424), (404, 18430), (410, 18445), (411, 18448), (419, 18469), (428, 18499), (432, 18511), (440, 18544), (462, 18655), (463, 18658), (469, 18685), (471, 18691), (483, 18745), (484, 18748), (514, 18850), (516, 18862), (517, 18865), (528, 18931), (534, 18955), (537, 18976), (539, 18985), (552, 19045), (553, 19048), (562, 19084), (565, 19102), (571, 19114), (574, 19123), (579, 19150), (595, 19219), (598, 19237), (602, 19246), (604, 19258), (610, 19294), (615, 19324), (620, 19345), (626, 19369), (630, 19405), (635, 19459), (647, 19519), (652, 19561), (671, 19639), (681, 19696), (685, 19720), (687, 19735), (692, 19774), (696, 19822), (703, 19864), (705, 19888), (706, 19891),

Gene: Philus_18 Start: 17405, Stop: 19942, Start Num: 81

Candidate Starts for Philus_18:

(Start: 81 @17405 has 221 MA's), (92, 17426), (Start: 104 @17447 has 1 MA's), (121, 17486), (154, 17555), (159, 17564), (160, 17567), (167, 17585), (184, 17633), (238, 17786), (241, 17795), (256, 17840), (273, 17918), (277, 17942), (287, 18008), (295, 18053), (302, 18083), (303, 18089), (305, 18107), (316, 18131), (319, 18140), (335, 18173), (338, 18179), (350, 18209), (363, 18248), (367, 18269), (373, 18284), (374, 18287), (402, 18401), (403, 18410), (404, 18416), (411, 18434), (419, 18455), (428, 18485), (432, 18497), (440, 18530), (462, 18641), (463, 18644), (469, 18671), (471, 18677), (483, 18731), (484, 18734), (511, 18821), (514, 18836), (517, 18851), (534, 18941), (537, 18962), (539, 18971), (552, 19031), (553, 19034), (562, 19070), (565, 19088), (571, 19100), (574, 19109), (579, 19136), (595, 19205), (598, 19223), (602, 19232), (604, 19244), (610, 19280), (615, 19310), (620, 19331), (626, 19355), (630, 19391), (635, 19445), (652, 19547), (671, 19625), (681, 19682), (685, 19706), (692, 19760), (696, 19808), (703, 19850), (708, 19883), (709, 19886),

Gene: PhlipPhlop_18 Start: 17352, Stop: 19889, Start Num: 81

Candidate Starts for PhlipPhlop_18:

(Start: 81 @17352 has 221 MA's), (92, 17373), (Start: 104 @17394 has 1 MA's), (121, 17433), (154, 17502), (159, 17511), (160, 17514), (167, 17532), (184, 17580), (238, 17733), (241, 17742), (256, 17787), (276, 17886), (277, 17889), (287, 17955), (302, 18030), (303, 18036), (305, 18054), (316, 18078), (318, 18084), (319, 18087), (335, 18120), (338, 18126), (350, 18156), (357, 18177), (365, 18207), (367, 18216), (373, 18231), (374, 18234), (401, 18345), (402, 18348), (403, 18357), (404, 18363), (410, 18378), (411, 18381), (419, 18402), (428, 18432), (432, 18444), (440, 18477), (462, 18588), (463, 18591), (469, 18618), (471, 18624), (483, 18678), (484, 18681), (514, 18783), (516, 18795), (517, 18798), (528, 18864), (534, 18888), (537, 18909), (539, 18918), (552, 18978), (553, 18981), (562, 19017), (565, 19035), (571, 19047), (574, 19056), (579, 19083), (594, 19140), (595, 19152), (598, 19170), (602, 19179), (604, 19191), (610, 19227), (615, 19257), (618, 19266), (620, 19278), (630, 19338), (635, 19392), (647, 19452), (652, 19494), (681, 19629), (685, 19653), (692, 19707), (696, 19755), (703, 19797), (705, 19821), (706, 19824),

Gene: Phreeze_29 Start: 25682, Stop: 28525, Start Num: 35

Candidate Starts for Phreeze_29:

(Start: 35 @25682 has 8 MA's), (56, 25814), (58, 25826), (60, 25835), (69, 25904), (98, 25970), (107, 25991), (125, 26039), (139, 26081), (155, 26105), (168, 26138), (180, 26174), (185, 26186), (223, 26279), (241, 26336), (251, 26375), (288, 26570), (293, 26600), (303, 26642), (354, 26783), (363, 26801), (382, 26882), (396, 26921), (400, 26942), (440, 27080), (446, 27119), (461, 27182), (484, 27284), (537, 27509), (616, 27872), (622, 27899), (658, 28142), (669, 28175), (672, 28199), (691, 28319), (701, 28397), (712, 28484), (714, 28499), (715, 28505),

Gene: Phrux_26 Start: 22025, Stop: 24421, Start Num: 126

Candidate Starts for Phrux_26:

(Start: 126 @22025 has 125 MA's), (195, 22202), (206, 22223), (264, 22370), (294, 22544), (302, 22577), (309, 22613), (350, 22706), (367, 22766), (374, 22784), (406, 22916), (422, 22961), (453, 23093), (462, 23138), (478, 23198), (510, 23312), (514, 23333), (522, 23372), (525, 23393), (527, 23408), (560, 23558), (562, 23564), (565, 23582), (580, 23636), (598, 23720), (618, 23813), (661, 24059), (696, 24275), (706, 24359), (712, 24392),

Gene: Piatt_27 Start: 20912, Stop: 23344, Start Num: 134

Candidate Starts for Piatt_27:

(Start: 134 @20912 has 92 MA's), (174, 21011), (263, 21272), (267, 21293), (305, 21500), (318, 21533), (323, 21563), (347, 21635), (352, 21659), (401, 21857), (412, 21902), (416, 21914), (420, 21923), (433, 21974), (467, 22154), (472, 22169), (487, 22238), (492, 22250), (508, 22313), (517, 22355), (525, 22394), (526, 22400), (527, 22409), (532, 22430), (544, 22490), (574, 22607), (581, 22649), (601, 22721), (603, 22730), (608, 22751), (619, 22823), (623, 22844), (635, 22940), (665, 23087), (679, 23168), (696, 23315),

Gene: Pinnie_23 Start: 21181, Stop: 23643, Start Num: 90

Candidate Starts for Pinnie_23:

(Start: 90 @21181 has 8 MA's), (130, 21286), (131, 21289), (178, 21409), (193, 21451), (204, 21484), (244, 21589), (285, 21772), (298, 21832), (343, 21955), (353, 21994), (367, 22042), (368, 22045), (395, 22141), (400, 22162), (405, 22192), (413, 22216), (438, 22297), (440, 22306), (445, 22333), (467, 22453), (488, 22540), (504, 22588), (520, 22669), (527, 22711), (547, 22804), (565, 22888), (626, 23149), (630, 23188), (639, 23275), (652, 23347), (678, 23464), (680, 23476), (693, 23581), (697, 23626),

Gene: Piper2020_19 Start: 17270, Stop: 19795, Start Num: 81

Candidate Starts for Piper2020_19:

(Start: 81 @17270 has 221 MA's), (92, 17291), (Start: 104 @17312 has 1 MA's), (121, 17351), (154, 17420), (159, 17429), (160, 17432), (167, 17450), (178, 17483), (184, 17498), (202, 17546), (240, 17657), (241, 17660), (256, 17705), (273, 17783), (277, 17807), (287, 17873), (288, 17882), (302, 17948), (303, 17954), (305, 17972), (316, 17996), (318, 18002), (319, 18005), (335, 18038), (338, 18044), (350, 18074), (357, 18095), (367, 18134), (373, 18149), (375, 18155), (411, 18299), (428, 18350), (452, 18461), (463, 18512), (468, 18536), (495, 18629), (507, 18674), (510, 18683), (514, 18704), (516, 18716), (517, 18719), (525, 18764), (534, 18809), (536, 18827), (537, 18830), (547, 18881), (560, 18932), (562, 18938), (565, 18956), (571, 18968), (574, 18977), (580, 19010), (598, 19091), (612, 19160), (618, 19187), (623, 19214), (631, 19265), (635, 19313), (684, 19556), (696, 19661), (700, 19682), (708, 19736), (711, 19760),

Gene: Plumbus_19 Start: 17226, Stop: 19763, Start Num: 81

Candidate Starts for Plumbus_19:

(76, 17214), (Start: 81 @17226 has 221 MA's), (92, 17247), (Start: 104 @17268 has 1 MA's), (121, 17307), (154, 17376), (159, 17385), (160, 17388), (167, 17406), (178, 17439), (184, 17454), (202, 17502), (240, 17613), (241, 17616), (252, 17646), (255, 17658), (256, 17661), (273, 17739), (277, 17763), (287, 17829), (295, 17874), (302, 17904), (303, 17910), (305, 17928), (316, 17952), (319, 17961), (335, 17994), (338, 18000), (350, 18030), (363, 18069), (365, 18081), (367, 18090), (373, 18105), (374, 18108), (401, 18219), (402, 18222), (403, 18231), (404, 18237), (410, 18252), (411, 18255), (419, 18276), (428, 18306), (432, 18318), (440, 18351), (453, 18417), (462, 18462), (463, 18465), (469, 18492), (471, 18498), (483, 18552), (484, 18555), (511, 18642), (514, 18657), (516, 18669), (517, 18672), (528, 18738), (534, 18762), (537, 18783), (539, 18792), (552, 18852), (553, 18855), (562, 18891), (565, 18909), (571, 18921), (574, 18930), (579, 18957), (595, 19026), (598, 19044), (602, 19053), (604, 19065), (610, 19101), (615, 19131), (620, 19152), (626, 19176), (630, 19212), (635, 19266), (647, 19326), (652, 19368), (671, 19446), (681, 19503), (685, 19527), (692, 19581), (696, 19629), (703, 19671), (705, 19695), (706, 19698),

Gene: Poenanya_18 Start: 17534, Stop: 20071, Start Num: 81

Candidate Starts for Poenanya_18:

(Start: 81 @17534 has 221 MA's), (92, 17555), (Start: 104 @17576 has 1 MA's), (121, 17615), (154, 17684), (159, 17693), (160, 17696), (167, 17714), (184, 17762), (240, 17921), (241, 17924), (256, 17969), (273, 18047), (277, 18071), (287, 18137), (302, 18212), (303, 18218), (305, 18236), (316, 18260), (318, 18266), (319, 18269), (335, 18302), (338, 18308), (350, 18338), (357, 18359), (365, 18389), (367, 18398), (397, 18506), (400, 18518), (401, 18527), (402, 18530), (404, 18545), (410, 18560), (411, 18563), (419, 18584), (432, 18626), (440, 18659), (462, 18770), (463, 18773), (469, 18800), (471, 18806), (483, 18860), (484, 18863), (495, 18890), (514, 18965), (516, 18977), (517, 18980), (528, 19046), (533, 19067), (534, 19070), (537, 19091), (539, 19100), (552, 19160), (553, 19163), (562, 19199), (565, 19217), (571, 19229), (574, 19238), (579, 19265), (594, 19322), (595, 19334), (598, 19352), (602, 19361), (604, 19373), (610, 19409), (615, 19439), (618, 19448), (620, 19460), (630, 19520), (635, 19574), (647, 19634), (652, 19676), (681, 19811), (685, 19835), (692, 19889), (696, 19937), (703, 19979), (705, 20003), (706, 20006),

Gene: Pokerus_26 Start: 20829, Stop: 23261, Start Num: 134

Candidate Starts for Pokerus_26:

(Start: 134 @20829 has 92 MA's), (174, 20928), (263, 21189), (267, 21210), (305, 21417), (318, 21450), (323, 21480), (347, 21552), (352, 21576), (401, 21774), (412, 21819), (416, 21831), (420, 21840), (433, 21891), (467, 22071), (472, 22086), (487, 22155), (492, 22167), (508, 22230), (517, 22272), (525, 22311), (526, 22317), (527, 22326), (532, 22347), (544, 22407), (574, 22524), (581, 22566), (601, 22638), (603, 22647), (608, 22668), (619, 22740), (623, 22761), (635, 22857), (665, 23004), (679, 23085), (696, 23232),

Gene: Policronamos_26 Start: 22312, Stop: 24708, Start Num: 126

Candidate Starts for Policronamos_26:

(Start: 126 @22312 has 125 MA's), (195, 22489), (206, 22510), (264, 22657), (288, 22798), (294, 22831), (302, 22864), (309, 22900), (350, 22993), (367, 23053), (374, 23071), (396, 23152), (453, 23380), (462, 23425), (514, 23620), (515, 23626), (517, 23635), (525, 23680), (527, 23695), (562, 23851), (565, 23869), (568, 23878), (581, 23932), (598, 24007), (634, 24220), (636, 24232), (661, 24346), (696, 24562), (706, 24646), (710, 24670), (712, 24679),

Gene: Polka14_19 Start: 17940, Stop: 20477, Start Num: 81

Candidate Starts for Polka14_19:

(76, 17928), (Start: 81 @17940 has 221 MA's), (92, 17961), (Start: 104 @17982 has 1 MA's), (121, 18021), (154, 18090), (159, 18099), (160, 18102), (167, 18120), (184, 18168), (202, 18216), (240, 18327), (241, 18330), (256, 18375), (273, 18453), (277, 18477), (287, 18543), (295, 18588), (302, 18618), (303, 18624), (305, 18642), (316, 18666), (319, 18675), (335, 18708), (338, 18714), (350, 18744), (363, 18783), (365, 18795), (367, 18804), (373, 18819), (374, 18822), (401, 18933), (402, 18936), (403, 18945), (404, 18951), (410, 18966), (411, 18969), (419, 18990), (428, 19020), (432, 19032), (440, 19065), (462, 19176), (463, 19179), (469, 19206), (471, 19212), (483, 19266), (484, 19269), (514, 19371), (516, 19383), (517, 19386), (528, 19452), (534, 19476), (537, 19497), (539, 19506), (552, 19566), (553, 19569), (562, 19605), (565, 19623), (574, 19644), (579, 19671), (595, 19740), (598, 19758), (602, 19767), (604, 19779), (610, 19815), (620, 19866), (624, 19884), (630, 19926), (635, 19980), (652, 20082), (681, 20217), (685, 20241), (692, 20295), (700, 20364), (705, 20409), (706, 20412),

Gene: Pollywog_21 Start: 18605, Stop: 21094, Start Num: 81

Candidate Starts for Pollywog_21:

(Start: 81 @18605 has 221 MA's), (92, 18626), (Start: 104 @18647 has 1 MA's), (122, 18686), (154, 18755), (159, 18764), (160, 18767), (167, 18785), (184, 18833), (202, 18881), (229, 18935), (241, 18971), (242, 18977), (243, 18980), (254, 18998), (260, 19022), (266, 19046), (279, 19109), (292, 19193), (295, 19202), (302, 19226), (305, 19250), (316, 19274), (318, 19280), (326, 19301), (338, 19322), (350, 19352), (359, 19382), (365, 19403), (391, 19496), (396, 19511), (397, 19520), (401, 19541), (402, 19544), (428, 19628), (429, 19631), (432, 19640), (439, 19667), (441, 19676), (447, 19715), (451, 19736), (453, 19739), (461, 19775), (465, 19796), (483, 19874), (484, 19877), (504, 19931), (516, 19991), (534, 20084), (536, 20102), (537, 20105), (545, 20141), (557, 20195), (560, 20204), (578, 20282), (581, 20300), (589, 20336), (591, 20339), (595, 20357), (596, 20360), (598, 20375), (604, 20396), (610, 20432), (612, 20444), (626, 20507), (630, 20540), (639, 20627), (649, 20675), (651, 20699), (657, 20726), (661, 20735), (670, 20774), (677, 20813), (681, 20837), (684, 20858), (696, 20954), (700, 20975), (709, 21038), (712, 21065), (713, 21074),

Gene: Polo2Bam_20 Start: 17446, Stop: 19983, Start Num: 81

Candidate Starts for Polo2Bam_20:

(Start: 81 @17446 has 221 MA's), (92, 17467), (Start: 104 @17488 has 1 MA's), (119, 17524), (121, 17527), (154, 17596), (159, 17605), (160, 17608), (167, 17626), (178, 17659), (184, 17674), (202, 17722), (238, 17827), (240, 17833), (241, 17836), (255, 17878), (256, 17881), (277, 17983), (287, 18049), (295, 18094), (302, 18124), (303, 18130), (305, 18148), (316, 18172), (319, 18181), (335,

18214), (338, 18220), (357, 18271), (363, 18289), (365, 18301), (367, 18310), (373, 18325), (375, 18331), (401, 18439), (403, 18451), (404, 18457), (410, 18472), (411, 18475), (419, 18496), (428, 18526), (432, 18538), (440, 18571), (453, 18637), (462, 18682), (463, 18685), (469, 18712), (471, 18718), (483, 18772), (484, 18775), (511, 18862), (514, 18877), (516, 18889), (517, 18892), (528, 18958), (537, 19003), (539, 19012), (552, 19072), (553, 19075), (562, 19111), (565, 19129), (571, 19141), (574, 19150), (579, 19177), (595, 19246), (598, 19264), (602, 19273), (604, 19285), (610, 19321), (615, 19351), (620, 19372), (626, 19396), (630, 19432), (635, 19486), (647, 19546), (652, 19588), (671, 19666), (681, 19723), (685, 19747), (692, 19801), (696, 19849), (703, 19891), (705, 19915), (706, 19918),

Gene: PopTart_18 Start: 17445, Stop: 19982, Start Num: 81

Candidate Starts for PopTart_18:

(76, 17433), (Start: 81 @17445 has 221 MA's), (92, 17466), (Start: 104 @17487 has 1 MA's), (121, 17526), (154, 17595), (159, 17604), (160, 17607), (167, 17625), (178, 17658), (184, 17673), (240, 17832), (241, 17835), (256, 17880), (273, 17958), (277, 17982), (287, 18048), (302, 18123), (303, 18129), (305, 18147), (316, 18171), (318, 18177), (319, 18180), (335, 18213), (338, 18219), (350, 18249), (357, 18270), (365, 18300), (367, 18309), (390, 18390), (403, 18450), (404, 18456), (410, 18471), (411, 18474), (419, 18495), (432, 18537), (440, 18570), (441, 18573), (469, 18711), (471, 18717), (483, 18771), (484, 18774), (495, 18801), (514, 18876), (516, 18888), (517, 18891), (528, 18957), (534, 18981), (537, 19002), (539, 19011), (552, 19071), (553, 19074), (562, 19110), (565, 19128), (574, 19149), (595, 19245), (598, 19263), (602, 19272), (604, 19284), (610, 19320), (615, 19350), (630, 19431), (635, 19485), (652, 19587), (681, 19722), (685, 19746), (692, 19800), (696, 19848), (703, 19890), (705, 19914), (706, 19917),

Gene: Porcelain_35 Start: 27554, Stop: 30061, Start Num: 81

Candidate Starts for Porcelain_35:

(Start: 81 @27554 has 221 MA's), (167, 27749), (178, 27785), (184, 27800), (224, 27887), (229, 27902), (256, 27977), (260, 27989), (267, 28016), (285, 28121), (292, 28160), (295, 28169), (302, 28193), (303, 28199), (305, 28217), (312, 28235), (319, 28250), (322, 28259), (326, 28268), (335, 28283), (346, 28310), (350, 28319), (363, 28358), (365, 28370), (367, 28379), (391, 28463), (411, 28544), (422, 28574), (423, 28577), (432, 28607), (439, 28634), (441, 28643), (450, 28694), (451, 28703), (453, 28706), (461, 28742), (465, 28763), (474, 28799), (515, 28952), (525, 29006), (534, 29051), (536, 29069), (537, 29072), (545, 29111), (578, 29258), (580, 29267), (596, 29336), (598, 29351), (630, 29516), (639, 29603), (649, 29651), (661, 29702), (677, 29780), (707, 30002), (709, 30005), (712, 30032),

Gene: Porky_26 Start: 22121, Stop: 24517, Start Num: 126

Candidate Starts for Porky_26:

(Start: 126 @22121 has 125 MA's), (195, 22298), (206, 22319), (264, 22466), (288, 22607), (294, 22640), (302, 22673), (309, 22709), (350, 22802), (367, 22862), (374, 22880), (406, 23012), (422, 23057), (453, 23189), (462, 23234), (478, 23294), (510, 23408), (514, 23429), (522, 23468), (525, 23489), (527, 23504), (560, 23654), (562, 23660), (565, 23678), (580, 23732), (598, 23816), (618, 23909), (661, 24155), (696, 24371), (706, 24455), (712, 24488),

Gene: Prager_30 Start: 24328, Stop: 26598, Start Num: 39

Candidate Starts for Prager_30:

(Start: 39 @24328 has 22 MA's), (59, 24463), (61, 24472), (102, 24646), (105, 24652), (108, 24664), (167, 24817), (173, 24832), (177, 24847), (277, 25228), (279, 25234), (284, 25279), (301, 25366), (370, 25567), (372, 25573), (382, 25621), (394, 25651), (400, 25675), (449, 25864), (456, 25891), (465, 25939), (482, 26011), (497, 26050), (503, 26071), (506, 26086), (511, 26104), (517, 26134), (536, 26218), (590, 26419), (600, 26461), (627, 26587),

Gene: Priscilla_18 Start: 17407, Stop: 19959, Start Num: 81

Candidate Starts for Priscilla_18:

(Start: 81 @17407 has 221 MA's), (121, 17488), (154, 17557), (159, 17566), (160, 17569), (167, 17587), (184, 17635), (201, 17680), (240, 17794), (241, 17797), (244, 17809), (253, 17830), (255, 17839), (256, 17842), (267, 17890), (273, 17920), (282, 17986), (288, 18019), (295, 18055), (301, 18079), (318, 18139), (319, 18142), (326, 18160), (355, 18223), (357, 18226), (363, 18244), (367, 18265), (374, 18283), (380, 18310), (385, 18331), (396, 18364), (403, 18406), (404, 18412), (406, 18415), (411, 18430), (421, 18457), (422, 18460), (428, 18481), (432, 18493), (440, 18526), (460, 18619), (483, 18727), (489, 18751), (495, 18757), (500, 18775), (501, 18778), (507, 18802), (514, 18832), (519, 18856), (525, 18892), (526, 18898), (527, 18907), (533, 18934), (543, 18997), (547, 19021), (548, 19036), (560, 19078), (575, 19129), (596, 19225), (598, 19240), (602, 19249), (607, 19273), (618, 19336), (626, 19372), (678, 19678), (685, 19723), (696, 19825),

Gene: Prithvi_27 Start: 20846, Stop: 23278, Start Num: 134

Candidate Starts for Prithvi_27:

(Start: 134 @20846 has 92 MA's), (174, 20945), (263, 21206), (305, 21434), (318, 21467), (323, 21497), (347, 21569), (352, 21593), (365, 21638), (401, 21791), (412, 21836), (416, 21848), (420, 21857), (430, 21893), (433, 21908), (467, 22088), (472, 22103), (487, 22172), (492, 22184), (508, 22247), (517, 22289), (525, 22328), (526, 22334), (527, 22343), (532, 22364), (544, 22424), (574, 22541), (581, 22583), (601, 22655), (603, 22664), (608, 22685), (619, 22757), (623, 22778), (635, 22874), (679, 23102), (696, 23249),

Gene: Puissant_28 Start: 26145, Stop: 28988, Start Num: 35

Candidate Starts for Puissant_28:

(Start: 35 @26145 has 8 MA's), (51, 26247), (56, 26277), (58, 26289), (60, 26298), (71, 26373), (95, 26427), (98, 26433), (107, 26454), (113, 26475), (125, 26502), (212, 26715), (216, 26727), (243, 26808), (246, 26817), (267, 26904), (269, 26910), (279, 26964), (301, 27093), (303, 27105), (349, 27225), (354, 27246), (396, 27384), (432, 27510), (484, 27747), (507, 27819), (516, 27861), (519, 27873), (537, 27972), (555, 28068), (610, 28308), (630, 28416), (658, 28608), (669, 28641), (672, 28665), (675, 28683), (691, 28785), (701, 28863), (708, 28920), (712, 28950), (714, 28965),

Gene: Pumpkin_28 Start: 22364, Stop: 24760, Start Num: 126

Candidate Starts for Pumpkin_28:

(Start: 126 @22364 has 125 MA's), (195, 22541), (206, 22562), (264, 22709), (294, 22883), (302, 22916), (309, 22952), (350, 23045), (367, 23105), (374, 23123), (406, 23255), (422, 23300), (453, 23432), (462, 23477), (478, 23537), (510, 23651), (514, 23672), (522, 23711), (525, 23732), (527, 23747), (560, 23897), (562, 23903), (565, 23921), (580, 23975), (598, 24059), (618, 24152), (661, 24398), (696, 24614), (706, 24698), (712, 24731),

Gene: Pygmy_20 Start: 18761, Stop: 21265, Start Num: 88

Candidate Starts for Pygmy_20:

(Start: 88 @18761 has 3 MA's), (Start: 94 @18770 has 4 MA's), (160, 18914), (276, 19319), (281, 19334), (282, 19364), (284, 19370), (287, 19388), (316, 19496), (338, 19547), (374, 19658), (375, 19661), (382, 19700), (396, 19733), (411, 19799), (432, 19859), (439, 19886), (440, 19892), (514, 20198), (525, 20258), (532, 20306), (533, 20309), (536, 20330), (537, 20333), (598, 20594), (624, 20717), (625, 20720), (635, 20810), (647, 20867), (650, 20888), (673, 20948), (701, 21149), (704, 21191),

Gene: Quallification_27 Start: 22490, Stop: 24886, Start Num: 126

Candidate Starts for Quallification_27:

(Start: 126 @22490 has 125 MA's), (195, 22667), (206, 22688), (264, 22835), (288, 22976), (294, 23009), (302, 23042), (309, 23078), (350, 23171), (367, 23231), (374, 23249), (406, 23381), (422, 23426), (453, 23558), (462, 23603), (478, 23663), (510, 23777), (514, 23798), (522, 23837), (525, 23858), (527, 23873), (560, 24023), (562, 24029), (565, 24047), (580, 24101), (598, 24185), (618,

24278), (661, 24524), (696, 24740), (706, 24824), (712, 24857),

Gene: QuickMath_19 Start: 18743, Stop: 21280, Start Num: 81

Candidate Starts for QuickMath_19:

(76, 18731), (Start: 81 @18743 has 221 MA's), (92, 18764), (Start: 104 @18785 has 1 MA's), (121, 18824), (154, 18893), (159, 18902), (160, 18905), (167, 18923), (178, 18956), (184, 18971), (202, 19019), (240, 19130), (241, 19133), (252, 19163), (255, 19175), (256, 19178), (273, 19256), (277, 19280), (287, 19346), (295, 19391), (302, 19421), (303, 19427), (305, 19445), (316, 19469), (319, 19478), (335, 19511), (338, 19517), (350, 19547), (363, 19586), (365, 19598), (367, 19607), (373, 19622), (374, 19625), (401, 19736), (402, 19739), (403, 19748), (404, 19754), (410, 19769), (411, 19772), (419, 19793), (428, 19823), (432, 19835), (440, 19868), (462, 19979), (463, 19982), (469, 20009), (471, 20015), (483, 20069), (484, 20072), (511, 20159), (514, 20174), (516, 20186), (517, 20189), (528, 20255), (534, 20279), (537, 20300), (539, 20309), (547, 20351), (552, 20369), (553, 20372), (562, 20408), (565, 20426), (571, 20438), (574, 20447), (579, 20474), (595, 20543), (598, 20561), (602, 20570), (604, 20582), (610, 20618), (615, 20648), (620, 20669), (626, 20693), (630, 20729), (635, 20783), (647, 20843), (652, 20885), (671, 20963), (681, 21020), (685, 21044), (692, 21098), (696, 21146), (703, 21188), (705, 21212), (706, 21215),

Gene: Quico_19 Start: 17227, Stop: 19764, Start Num: 81

Candidate Starts for Quico_19:

(Start: 81 @17227 has 221 MA's), (92, 17248), (Start: 104 @17269 has 1 MA's), (121, 17308), (154, 17377), (159, 17386), (160, 17389), (167, 17407), (178, 17440), (184, 17455), (202, 17503), (240, 17614), (241, 17617), (252, 17647), (256, 17662), (273, 17740), (277, 17764), (287, 17830), (295, 17875), (302, 17905), (303, 17911), (305, 17929), (316, 17953), (319, 17962), (335, 17995), (338, 18001), (350, 18031), (363, 18070), (367, 18091), (373, 18106), (374, 18109), (402, 18223), (403, 18232), (404, 18238), (411, 18256), (419, 18277), (428, 18307), (432, 18319), (440, 18352), (462, 18463), (463, 18466), (469, 18493), (471, 18499), (483, 18553), (484, 18556), (511, 18643), (514, 18658), (517, 18673), (534, 18763), (537, 18784), (539, 18793), (552, 18853), (553, 18856), (560, 18886), (565, 18910), (574, 18931), (595, 19027), (598, 19045), (602, 19054), (604, 19066), (610, 19102), (615, 19132), (620, 19153), (626, 19177), (630, 19213), (635, 19267), (647, 19327), (652, 19369), (671, 19447), (681, 19504), (685, 19528), (692, 19582), (696, 19630), (703, 19672), (705, 19696), (706, 19699),

Gene: QuincyRose_26 Start: 20892, Stop: 23324, Start Num: 134

Candidate Starts for QuincyRose_26:

(Start: 134 @20892 has 92 MA's), (174, 20991), (263, 21252), (267, 21273), (305, 21480), (318, 21513), (323, 21543), (347, 21615), (352, 21639), (365, 21684), (401, 21837), (412, 21882), (416, 21894), (420, 21903), (433, 21954), (467, 22134), (472, 22149), (487, 22218), (492, 22230), (508, 22293), (517, 22335), (525, 22374), (526, 22380), (527, 22389), (532, 22410), (544, 22470), (574, 22587), (581, 22629), (601, 22701), (603, 22710), (608, 22731), (619, 22803), (623, 22824), (635, 22920), (647, 22983), (665, 23067), (673, 23109), (679, 23148),

Gene: Radiance_18 Start: 17380, Stop: 19917, Start Num: 81

Candidate Starts for Radiance_18:

(76, 17368), (Start: 81 @17380 has 221 MA's), (92, 17401), (Start: 104 @17422 has 1 MA's), (121, 17461), (154, 17530), (159, 17539), (160, 17542), (167, 17560), (178, 17593), (184, 17608), (202, 17656), (238, 17761), (240, 17767), (241, 17770), (255, 17812), (256, 17815), (277, 17917), (287, 17983), (295, 18028), (302, 18058), (303, 18064), (305, 18082), (316, 18106), (319, 18115), (335, 18148), (338, 18154), (350, 18184), (365, 18235), (367, 18244), (397, 18352), (400, 18364), (401, 18373), (402, 18376), (404, 18391), (410, 18406), (411, 18409), (419, 18430), (428, 18460), (432, 18472), (440, 18505), (462, 18616), (463, 18619), (469, 18646), (471, 18652), (483, 18706), (484, 18709), (495, 18736), (514, 18811), (516, 18823), (517, 18826), (528, 18892), (533, 18913), (534, 18916), (537, 18937), (539, 18946), (552, 19006), (553, 19009), (560, 19039), (565, 19063), (571,

19075), (574, 19084), (595, 19180), (598, 19198), (602, 19207), (604, 19219), (615, 19285), (618, 19294), (620, 19306), (626, 19330), (630, 19366), (652, 19522), (681, 19657), (685, 19681), (692, 19735), (700, 19804), (705, 19849), (706, 19852),

Gene: Rakim_27 Start: 22397, Stop: 24793, Start Num: 126

Candidate Starts for Rakim_27:

(Start: 126 @22397 has 125 MA's), (195, 22574), (206, 22595), (264, 22742), (288, 22883), (294, 22916), (302, 22949), (309, 22985), (350, 23078), (367, 23138), (374, 23156), (396, 23237), (453, 23465), (462, 23510), (514, 23705), (515, 23711), (517, 23720), (525, 23765), (527, 23780), (562, 23936), (565, 23954), (568, 23963), (581, 24017), (598, 24092), (599, 24095), (634, 24305), (636, 24317), (661, 24431), (696, 24647), (706, 24731), (710, 24755), (712, 24764),

Gene: Ramen_27 Start: 20878, Stop: 23310, Start Num: 134

Candidate Starts for Ramen_27:

(Start: 134 @20878 has 92 MA's), (174, 20977), (263, 21238), (267, 21259), (305, 21466), (318, 21499), (323, 21529), (347, 21601), (352, 21625), (401, 21823), (412, 21868), (416, 21880), (420, 21889), (433, 21940), (467, 22120), (472, 22135), (487, 22204), (492, 22216), (508, 22279), (517, 22321), (525, 22360), (526, 22366), (527, 22375), (532, 22396), (544, 22456), (574, 22573), (581, 22615), (601, 22687), (603, 22696), (608, 22717), (619, 22789), (623, 22810), (635, 22906), (665, 23053), (679, 23134), (696, 23281),

Gene: Ramsey_19 Start: 17429, Stop: 19966, Start Num: 81

Candidate Starts for Ramsey_19:

(Start: 81 @17429 has 221 MA's), (92, 17450), (Start: 104 @17471 has 1 MA's), (121, 17510), (154, 17579), (159, 17588), (160, 17591), (167, 17609), (184, 17657), (240, 17816), (241, 17819), (256, 17864), (273, 17942), (277, 17966), (287, 18032), (302, 18107), (303, 18113), (305, 18131), (316, 18155), (318, 18161), (319, 18164), (335, 18197), (338, 18203), (350, 18233), (357, 18254), (365, 18284), (367, 18293), (397, 18401), (400, 18413), (401, 18422), (402, 18425), (404, 18440), (410, 18455), (411, 18458), (419, 18479), (432, 18521), (440, 18554), (462, 18665), (463, 18668), (469, 18695), (471, 18701), (483, 18755), (484, 18758), (495, 18785), (514, 18860), (516, 18872), (517, 18875), (528, 18941), (533, 18962), (534, 18965), (537, 18986), (539, 18995), (547, 19037), (552, 19055), (553, 19058), (560, 19088), (565, 19112), (571, 19124), (574, 19133), (595, 19229), (598, 19247), (602, 19256), (604, 19268), (610, 19304), (615, 19334), (618, 19343), (620, 19355), (630, 19415), (635, 19469), (647, 19529), (652, 19571), (681, 19706), (685, 19730), (692, 19784), (696, 19832), (703, 19874), (705, 19898), (706, 19901),

Gene: Rapunzel97_27 Start: 20879, Stop: 23311, Start Num: 134

Candidate Starts for Rapunzel97_27:

(Start: 134 @20879 has 92 MA's), (174, 20978), (263, 21239), (267, 21260), (305, 21467), (318, 21500), (323, 21530), (347, 21602), (352, 21626), (365, 21671), (401, 21824), (412, 21869), (416, 21881), (420, 21890), (433, 21941), (467, 22121), (472, 22136), (487, 22205), (492, 22217), (517, 22322), (525, 22361), (526, 22367), (527, 22376), (544, 22457), (554, 22505), (575, 22580), (581, 22616), (603, 22697), (608, 22718), (623, 22811), (635, 22907), (665, 23054), (673, 23096), (679, 23135), (689, 23210),

Gene: RedBird_18 Start: 17357, Stop: 19894, Start Num: 81

Candidate Starts for RedBird_18:

(Start: 81 @17357 has 221 MA's), (92, 17378), (Start: 104 @17399 has 1 MA's), (121, 17438), (154, 17507), (159, 17516), (160, 17519), (167, 17537), (184, 17585), (238, 17738), (241, 17747), (256, 17792), (276, 17891), (277, 17894), (287, 17960), (302, 18035), (303, 18041), (305, 18059), (316, 18083), (318, 18089), (319, 18092), (335, 18125), (338, 18131), (350, 18161), (357, 18182), (365, 18212), (367, 18221), (373, 18236), (374, 18239), (401, 18350), (402, 18353), (403, 18362), (404, 18368), (410, 18383), (411, 18386), (419, 18407), (428, 18437), (432, 18449), (440, 18482), (462,

18593), (463, 18596), (469, 18623), (471, 18629), (483, 18683), (484, 18686), (511, 18773), (514, 18788), (516, 18800), (517, 18803), (528, 18869), (534, 18893), (537, 18914), (539, 18923), (552, 18983), (553, 18986), (562, 19022), (565, 19040), (571, 19052), (574, 19061), (579, 19088), (594, 19145), (595, 19157), (598, 19175), (602, 19184), (604, 19196), (610, 19232), (615, 19262), (618, 19271), (620, 19283), (630, 19343), (635, 19397), (647, 19457), (652, 19499), (681, 19634), (685, 19658), (692, 19712), (696, 19760), (703, 19802), (705, 19826), (706, 19829),

Gene: Renaud18_20 Start: 17833, Stop: 20313, Start Num: 85

Candidate Starts for Renaud18_20:

(Start: 85 @17833 has 3 MA's), (89, 17839), (92, 17845), (Start: 126 @17908 has 125 MA's), (127, 17911), (138, 17938), (164, 17992), (167, 18001), (178, 18034), (189, 18067), (202, 18100), (224, 18139), (229, 18154), (241, 18190), (242, 18196), (243, 18199), (254, 18217), (256, 18229), (260, 18241), (266, 18265), (267, 18268), (292, 18412), (295, 18421), (302, 18445), (305, 18469), (316, 18493), (318, 18499), (326, 18520), (338, 18541), (350, 18571), (359, 18601), (365, 18622), (391, 18715), (396, 18730), (397, 18739), (401, 18760), (402, 18763), (415, 18805), (428, 18847), (429, 18850), (432, 18859), (439, 18886), (447, 18934), (451, 18955), (453, 18958), (461, 18994), (465, 19015), (483, 19093), (484, 19096), (504, 19150), (516, 19210), (534, 19303), (537, 19324), (545, 19360), (557, 19414), (560, 19423), (578, 19501), (581, 19519), (589, 19555), (591, 19558), (595, 19576), (596, 19579), (598, 19594), (604, 19615), (610, 19651), (612, 19663), (626, 19726), (630, 19759), (639, 19846), (649, 19894), (651, 19918), (657, 19945), (661, 19954), (670, 19993), (677, 20032), (681, 20056), (684, 20077), (696, 20173), (700, 20194), (709, 20257), (712, 20284), (713, 20293),

Gene: Rialto_20 Start: 17909, Stop: 20446, Start Num: 81

Candidate Starts for Rialto_20:

(Start: 81 @17909 has 221 MA's), (92, 17930), (Start: 104 @17951 has 1 MA's), (121, 17990), (154, 18059), (159, 18068), (160, 18071), (167, 18089), (184, 18137), (238, 18290), (241, 18299), (256, 18344), (276, 18443), (277, 18446), (287, 18512), (302, 18587), (303, 18593), (305, 18611), (316, 18635), (318, 18641), (319, 18644), (335, 18677), (338, 18683), (350, 18713), (357, 18734), (365, 18764), (367, 18773), (373, 18788), (374, 18791), (401, 18902), (402, 18905), (403, 18914), (404, 18920), (410, 18935), (411, 18938), (419, 18959), (428, 18989), (432, 19001), (440, 19034), (462, 19145), (463, 19148), (469, 19175), (471, 19181), (483, 19235), (484, 19238), (514, 19340), (516, 19352), (517, 19355), (528, 19421), (534, 19445), (537, 19466), (539, 19475), (552, 19535), (553, 19538), (562, 19574), (565, 19592), (571, 19604), (574, 19613), (579, 19640), (594, 19697), (595, 19709), (598, 19727), (602, 19736), (604, 19748), (610, 19784), (615, 19814), (618, 19823), (620, 19835), (630, 19895), (635, 19949), (647, 20009), (652, 20051), (681, 20186), (685, 20210), (692, 20264), (696, 20312), (703, 20354), (705, 20378), (706, 20381),

Gene: Rimmer_25 Start: 21850, Stop: 24246, Start Num: 126

Candidate Starts for Rimmer_25:

(Start: 126 @21850 has 125 MA's), (195, 22027), (206, 22048), (264, 22195), (288, 22336), (294, 22369), (302, 22402), (309, 22438), (350, 22531), (367, 22591), (374, 22609), (406, 22741), (422, 22786), (453, 22918), (462, 22963), (510, 23137), (514, 23158), (522, 23197), (525, 23218), (527, 23233), (562, 23389), (565, 23407), (580, 23461), (598, 23545), (618, 23638), (661, 23884), (696, 24100), (706, 24184), (712, 24217),

Gene: Rinke_33 Start: 31333, Stop: 33816, Start Num: 94

Candidate Starts for Rinke_33:

(Start: 94 @31333 has 4 MA's), (99, 31342), (131, 31429), (132, 31435), (136, 31447), (141, 31462), (163, 31504), (164, 31507), (185, 31570), (237, 31708), (254, 31747), (257, 31765), (267, 31807), (268, 31810), (285, 31909), (302, 31984), (306, 32011), (307, 32014), (316, 32035), (320, 32047), (368, 32209), (371, 32218), (373, 32224), (382, 32266), (383, 32269), (403, 32347), (414, 32380), (426, 32413), (431, 32431), (444, 32488), (456, 32557), (462, 32593), (504, 32758), (506, 32773),

(520, 32839), (526, 32872), (527, 32881), (547, 32968), (561, 33028), (565, 33052), (577, 33097), (578, 33100), (581, 33118), (602, 33199), (635, 33421), (636, 33430), (693, 33754),

Gene: Riparian_30 Start: 24095, Stop: 27595, Start Num: 2

Candidate Starts for Riparian_30:

(Start: 2 @24095 has 8 MA's), (4, 24107), (Start: 5 @24119 has 1 MA's), (8, 24302), (11, 24383), (17, 24482), (19, 24506), (20, 24524), (37, 24683), (41, 24716), (48, 24764), (54, 24803), (75, 24929), (77, 24938), (145, 25124), (222, 25325), (266, 25502), (282, 25601), (288, 25634), (297, 25679), (308, 25733), (315, 25745), (343, 25811), (367, 25895), (372, 25910), (379, 25940), (404, 26045), (424, 26096), (436, 26141), (445, 26186), (454, 26231), (460, 26252), (462, 26270), (463, 26273), (464, 26279), (465, 26282), (500, 26420), (512, 26468), (513, 26474), (524, 26534), (527, 26555), (545, 26648), (557, 26708), (560, 26717), (562, 26723), (566, 26744), (606, 26909), (618, 26975), (620, 26987), (624, 27005), (626, 27011), (666, 27245), (672, 27284), (680, 27329), (684, 27359), (695, 27452), (700, 27479),

Gene: Rita_18 Start: 17410, Stop: 19947, Start Num: 81

Candidate Starts for Rita_18:

(Start: 81 @17410 has 221 MA's), (128, 17500), (154, 17560), (159, 17569), (160, 17572), (167, 17590), (184, 17638), (201, 17683), (240, 17797), (241, 17800), (252, 17830), (255, 17842), (256, 17845), (273, 17923), (277, 17947), (287, 18013), (295, 18058), (302, 18088), (303, 18094), (305, 18112), (316, 18136), (319, 18145), (335, 18178), (338, 18184), (350, 18214), (363, 18253), (365, 18265), (367, 18274), (373, 18289), (374, 18292), (401, 18403), (402, 18406), (403, 18415), (404, 18421), (410, 18436), (411, 18439), (419, 18460), (428, 18490), (432, 18502), (440, 18535), (462, 18646), (463, 18649), (469, 18676), (471, 18682), (483, 18736), (484, 18739), (514, 18841), (516, 18853), (517, 18856), (528, 18922), (534, 18946), (537, 18967), (539, 18976), (552, 19036), (553, 19039), (562, 19075), (565, 19093), (571, 19105), (574, 19114), (579, 19141), (595, 19210), (598, 19228), (602, 19237), (604, 19249), (610, 19285), (615, 19315), (620, 19336), (626, 19360), (630, 19396), (635, 19450), (647, 19510), (652, 19552), (671, 19630), (681, 19687), (685, 19711), (692, 19765), (696, 19813), (703, 19855), (705, 19879), (706, 19882),

Gene: RitaG_18 Start: 17539, Stop: 20091, Start Num: 81

Candidate Starts for RitaG_18:

(Start: 81 @17539 has 221 MA's), (92, 17560), (102, 17581), (121, 17620), (154, 17689), (159, 17698), (160, 17701), (167, 17719), (178, 17752), (184, 17767), (202, 17815), (240, 17926), (241, 17929), (253, 17962), (255, 17971), (256, 17974), (273, 18052), (282, 18118), (288, 18151), (299, 18205), (302, 18217), (316, 18265), (319, 18274), (322, 18283), (341, 18316), (357, 18358), (361, 18373), (370, 18403), (372, 18409), (373, 18412), (374, 18415), (380, 18442), (385, 18463), (396, 18496), (403, 18538), (404, 18544), (406, 18547), (410, 18559), (411, 18562), (421, 18589), (428, 18613), (432, 18625), (440, 18658), (444, 18679), (460, 18751), (463, 18772), (489, 18883), (500, 18907), (501, 18910), (507, 18934), (514, 18964), (519, 18988), (525, 19024), (526, 19030), (527, 19039), (543, 19129), (547, 19153), (548, 19168), (560, 19210), (562, 19216), (575, 19261), (596, 19357), (598, 19372), (602, 19381), (607, 19405), (618, 19468), (635, 19594), (678, 19810), (685, 19855), (696, 19957), (709, 20035),

Gene: RiverMonster_26 Start: 22039, Stop: 24435, Start Num: 126

Candidate Starts for RiverMonster_26:

(Start: 126 @22039 has 125 MA's), (195, 22216), (206, 22237), (264, 22384), (294, 22558), (302, 22591), (309, 22627), (350, 22720), (367, 22780), (374, 22798), (406, 22930), (422, 22975), (453, 23107), (462, 23152), (478, 23212), (510, 23326), (514, 23347), (522, 23386), (525, 23407), (527, 23422), (560, 23572), (562, 23578), (565, 23596), (580, 23650), (598, 23734), (618, 23827), (661, 24073), (696, 24289), (706, 24373), (712, 24406),

Gene: Rockne_18 Start: 17383, Stop: 19920, Start Num: 81

Candidate Starts for Rockne_18:

(Start: 81 @17383 has 221 MA's), (128, 17473), (154, 17533), (159, 17542), (160, 17545), (167, 17563), (184, 17611), (202, 17659), (238, 17764), (240, 17770), (241, 17773), (255, 17815), (256, 17818), (277, 17920), (287, 17986), (295, 18031), (302, 18061), (303, 18067), (305, 18085), (316, 18109), (319, 18118), (335, 18151), (338, 18157), (357, 18208), (363, 18226), (365, 18238), (367, 18247), (373, 18262), (375, 18268), (401, 18376), (403, 18388), (404, 18394), (410, 18409), (411, 18412), (419, 18433), (428, 18463), (432, 18475), (440, 18508), (453, 18574), (462, 18619), (463, 18622), (469, 18649), (471, 18655), (483, 18709), (484, 18712), (495, 18739), (514, 18814), (516, 18826), (517, 18829), (528, 18895), (533, 18916), (534, 18919), (539, 18949), (547, 18991), (552, 19009), (553, 19012), (560, 19042), (565, 19066), (571, 19078), (574, 19087), (595, 19183), (598, 19201), (602, 19210), (604, 19222), (615, 19288), (618, 19297), (620, 19309), (630, 19369), (652, 19525), (681, 19660), (685, 19684), (692, 19738), (700, 19807), (705, 19852), (706, 19855),

Gene: RockyHorror_19 Start: 17258, Stop: 19795, Start Num: 81

Candidate Starts for RockyHorror_19:

(Start: 81 @17258 has 221 MA's), (92, 17279), (Start: 104 @17300 has 1 MA's), (121, 17339), (154, 17408), (159, 17417), (160, 17420), (167, 17438), (184, 17486), (238, 17639), (241, 17648), (256, 17693), (276, 17792), (277, 17795), (287, 17861), (302, 17936), (303, 17942), (305, 17960), (316, 17984), (318, 17990), (319, 17993), (335, 18026), (338, 18032), (350, 18062), (357, 18083), (365, 18113), (367, 18122), (373, 18137), (374, 18140), (401, 18251), (402, 18254), (403, 18263), (404, 18269), (410, 18284), (411, 18287), (419, 18308), (428, 18338), (432, 18350), (440, 18383), (462, 18494), (463, 18497), (469, 18524), (471, 18530), (483, 18584), (484, 18587), (511, 18674), (514, 18689), (516, 18701), (517, 18704), (528, 18770), (534, 18794), (537, 18815), (539, 18824), (552, 18884), (553, 18887), (562, 18923), (565, 18941), (571, 18953), (574, 18962), (579, 18989), (594, 19046), (595, 19058), (598, 19076), (602, 19085), (604, 19097), (610, 19133), (615, 19163), (618, 19172), (620, 19184), (630, 19244), (635, 19298), (647, 19358), (652, 19400), (681, 19535), (685, 19559), (692, 19613), (696, 19661), (703, 19703), (705, 19727), (706, 19730),

Gene: Rope_30 Start: 24281, Stop: 27775, Start Num: 2

Candidate Starts for Rope_30:

(Start: 2 @24281 has 8 MA's), (4, 24293), (Start: 5 @24305 has 1 MA's), (8, 24488), (11, 24569), (17, 24668), (19, 24692), (20, 24710), (37, 24869), (41, 24902), (48, 24950), (54, 24989), (75, 25115), (77, 25124), (145, 25310), (222, 25511), (266, 25688), (282, 25787), (288, 25820), (297, 25865), (300, 25877), (308, 25919), (311, 25925), (313, 25928), (343, 25997), (366, 26075), (367, 26081), (379, 26126), (380, 26129), (401, 26213), (465, 26468), (475, 26507), (512, 26654), (513, 26660), (545, 26834), (553, 26867), (557, 26888), (560, 26897), (566, 26924), (620, 27167), (638, 27311), (680, 27509), (684, 27539), (692, 27596), (695, 27632), (700, 27659), (701, 27671),

Gene: Rosmarinus_27 Start: 20900, Stop: 23332, Start Num: 134

Candidate Starts for Rosmarinus_27:

(Start: 134 @20900 has 92 MA's), (174, 20999), (263, 21260), (267, 21281), (305, 21488), (318, 21521), (323, 21551), (347, 21623), (352, 21647), (401, 21845), (412, 21890), (416, 21902), (420, 21911), (433, 21962), (467, 22142), (472, 22157), (487, 22226), (492, 22238), (508, 22301), (517, 22343), (525, 22382), (526, 22388), (527, 22397), (532, 22418), (544, 22478), (574, 22595), (581, 22637), (601, 22709), (603, 22718), (608, 22739), (619, 22811), (623, 22832), (635, 22928), (665, 23075), (679, 23156), (696, 23303),

Gene: Royals2015_18 Start: 17417, Stop: 19948, Start Num: 81

Candidate Starts for Royals2015_18:

(Start: 81 @17417 has 221 MA's), (92, 17438), (128, 17507), (154, 17567), (159, 17576), (160, 17579), (167, 17597), (178, 17630), (184, 17645), (201, 17690), (240, 17804), (241, 17807), (244, 17819), (254, 17840), (255, 17849), (256, 17852), (273, 17930), (282, 17996), (288, 18029), (295, 18065), (301, 18089), (318, 18149), (319, 18152), (326, 18170), (354, 18233), (356, 18236), (363, 18254),

(367, 18275), (374, 18293), (380, 18320), (385, 18341), (396, 18374), (404, 18422), (406, 18425), (410, 18437), (411, 18440), (419, 18461), (428, 18491), (432, 18503), (440, 18536), (453, 18602), (462, 18647), (463, 18650), (469, 18677), (471, 18683), (483, 18737), (484, 18740), (495, 18767), (514, 18842), (516, 18854), (517, 18857), (528, 18923), (534, 18947), (539, 18977), (547, 19019), (552, 19037), (553, 19040), (562, 19076), (565, 19094), (574, 19115), (579, 19142), (595, 19211), (598, 19229), (602, 19238), (604, 19250), (610, 19286), (620, 19337), (624, 19355), (630, 19397), (635, 19451), (652, 19553), (671, 19631), (681, 19688), (685, 19712), (692, 19766), (696, 19814), (705, 19880), (706, 19883),

Gene: Ruby_18 Start: 17371, Stop: 19908, Start Num: 81

Candidate Starts for Ruby_18:

(Start: 81 @17371 has 221 MA's), (92, 17392), (Start: 104 @17413 has 1 MA's), (121, 17452), (154, 17521), (159, 17530), (160, 17533), (167, 17551), (178, 17584), (184, 17599), (238, 17752), (241, 17761), (256, 17806), (276, 17905), (277, 17908), (287, 17974), (302, 18049), (303, 18055), (316, 18097), (318, 18103), (319, 18106), (335, 18139), (338, 18145), (350, 18175), (357, 18196), (365, 18226), (367, 18235), (373, 18250), (374, 18253), (401, 18364), (402, 18367), (403, 18376), (404, 18382), (410, 18397), (411, 18400), (419, 18421), (428, 18451), (432, 18463), (440, 18496), (462, 18607), (463, 18610), (469, 18637), (471, 18643), (483, 18697), (484, 18700), (511, 18787), (514, 18802), (516, 18814), (517, 18817), (528, 18883), (534, 18907), (537, 18928), (539, 18937), (547, 18979), (552, 18997), (553, 19000), (560, 19030), (565, 19054), (571, 19066), (574, 19075), (595, 19171), (598, 19189), (602, 19198), (604, 19210), (610, 19246), (615, 19276), (618, 19285), (620, 19297), (630, 19357), (635, 19411), (647, 19471), (652, 19513), (681, 19648), (685, 19672), (692, 19726), (696, 19774), (703, 19816), (705, 19840), (706, 19843),

Gene: Ryadel_62 Start: 36906, Stop: 39416, Start Num: 96

Candidate Starts for Ryadel_62:

(Start: 96 @36906 has 28 MA's), (108, 36939), (136, 37008), (137, 37011), (147, 37035), (160, 37059), (170, 37083), (178, 37116), (245, 37323), (248, 37335), (249, 37338), (281, 37485), (282, 37515), (287, 37539), (295, 37569), (296, 37572), (302, 37599), (305, 37623), (318, 37653), (344, 37710), (363, 37770), (365, 37782), (373, 37806), (374, 37809), (382, 37851), (410, 37947), (411, 37950), (475, 38205), (514, 38349), (525, 38409), (536, 38481), (537, 38484), (558, 38580), (598, 38754), (602, 38763), (604, 38775), (622, 38868), (625, 38880), (635, 38970), (650, 39045), (670, 39090), (699, 39291), (704, 39345), (709, 39360),

Gene: SG4_18 Start: 17548, Stop: 20085, Start Num: 81

Candidate Starts for SG4_18:

(Start: 81 @17548 has 221 MA's), (92, 17569), (Start: 104 @17590 has 1 MA's), (119, 17626), (121, 17629), (154, 17698), (159, 17707), (160, 17710), (167, 17728), (178, 17761), (184, 17776), (202, 17824), (240, 17935), (241, 17938), (252, 17968), (255, 17980), (256, 17983), (273, 18061), (277, 18085), (287, 18151), (295, 18196), (302, 18226), (303, 18232), (305, 18250), (316, 18274), (319, 18283), (335, 18316), (338, 18322), (357, 18373), (363, 18391), (365, 18403), (367, 18412), (373, 18427), (374, 18430), (401, 18541), (402, 18544), (403, 18553), (404, 18559), (410, 18574), (411, 18577), (419, 18598), (428, 18628), (432, 18640), (440, 18673), (453, 18739), (462, 18784), (463, 18787), (469, 18814), (471, 18820), (483, 18874), (484, 18877), (514, 18979), (516, 18991), (517, 18994), (528, 19060), (534, 19084), (537, 19105), (539, 19114), (552, 19174), (553, 19177), (562, 19213), (565, 19231), (571, 19243), (574, 19252), (579, 19279), (595, 19348), (598, 19366), (602, 19375), (604, 19387), (610, 19423), (615, 19453), (620, 19474), (626, 19498), (630, 19534), (635, 19588), (647, 19648), (652, 19690), (681, 19825), (685, 19849), (692, 19903), (696, 19951), (705, 20017), (706, 20020),

Gene: Saal_18 Start: 17383, Stop: 19920, Start Num: 81

Candidate Starts for Saal_18:

(Start: 81 @17383 has 221 MA's), (92, 17404), (Start: 104 @17425 has 1 MA's), (121, 17464), (154, 17533), (159, 17542), (160, 17545), (167, 17563), (184, 17611), (238, 17764), (241, 17773), (256, 17818), (273, 17896), (277, 17920), (287, 17986), (295, 18031), (302, 18061), (303, 18067), (305, 18085), (316, 18109), (319, 18118), (335, 18151), (338, 18157), (350, 18187), (363, 18226), (367, 18247), (373, 18262), (374, 18265), (402, 18379), (403, 18388), (404, 18394), (411, 18412), (419, 18433), (428, 18463), (432, 18475), (440, 18508), (462, 18619), (463, 18622), (469, 18649), (471, 18655), (483, 18709), (484, 18712), (511, 18799), (514, 18814), (517, 18829), (534, 18919), (537, 18940), (539, 18949), (552, 19009), (553, 19012), (562, 19048), (565, 19066), (571, 19078), (574, 19087), (579, 19114), (595, 19183), (598, 19201), (602, 19210), (604, 19222), (610, 19258), (615, 19288), (620, 19309), (626, 19333), (630, 19369), (635, 19423), (652, 19525), (671, 19603), (681, 19660), (685, 19684), (692, 19738), (696, 19786), (703, 19828), (708, 19861), (709, 19864),

Gene: Sabbb_19 Start: 17625, Stop: 20168, Start Num: 81

Candidate Starts for Sabbb_19:

(Start: 81 @17625 has 221 MA's), (92, 17646), (102, 17667), (121, 17706), (154, 17775), (159, 17784), (160, 17787), (167, 17805), (184, 17853), (202, 17901), (240, 18012), (241, 18015), (253, 18048), (256, 18060), (273, 18138), (282, 18204), (288, 18237), (299, 18291), (302, 18303), (318, 18357), (319, 18360), (322, 18369), (341, 18402), (355, 18441), (357, 18444), (361, 18459), (363, 18462), (370, 18489), (372, 18495), (373, 18498), (374, 18501), (380, 18528), (383, 18546), (385, 18549), (403, 18624), (410, 18645), (411, 18648), (421, 18675), (428, 18699), (440, 18744), (441, 18747), (450, 18798), (463, 18861), (465, 18870), (470, 18894), (501, 18999), (502, 19002), (514, 19053), (515, 19059), (516, 19065), (517, 19068), (525, 19113), (527, 19128), (533, 19155), (537, 19179), (547, 19230), (552, 19248), (553, 19251), (554, 19263), (571, 19317), (598, 19440), (611, 19503), (624, 19566), (632, 19641), (673, 19842), (702, 20070), (708, 20109), (709, 20112),

Gene: Saints25_27 Start: 21945, Stop: 24341, Start Num: 126

Candidate Starts for Saints25_27:

(Start: 126 @21945 has 125 MA's), (195, 22122), (206, 22143), (264, 22290), (288, 22431), (294, 22464), (302, 22497), (309, 22533), (350, 22626), (367, 22686), (374, 22704), (406, 22836), (422, 22881), (453, 23013), (462, 23058), (478, 23118), (510, 23232), (514, 23253), (522, 23292), (525, 23313), (527, 23328), (560, 23478), (562, 23484), (565, 23502), (580, 23556), (598, 23640), (618, 23733), (661, 23979), (696, 24195), (706, 24279), (712, 24312),

Gene: SamuelLPlaqson_27 Start: 20840, Stop: 23272, Start Num: 134

Candidate Starts for SamuelLPlaqson_27:

(127, 20822), (Start: 134 @20840 has 92 MA's), (154, 20888), (174, 20939), (263, 21200), (267, 21221), (317, 21458), (318, 21461), (323, 21491), (324, 21494), (347, 21563), (352, 21587), (353, 21593), (357, 21599), (365, 21632), (401, 21785), (416, 21842), (420, 21851), (433, 21902), (467, 22082), (472, 22097), (487, 22166), (492, 22178), (501, 22214), (508, 22241), (517, 22283), (525, 22322), (526, 22328), (527, 22337), (532, 22358), (544, 22418), (552, 22451), (555, 22469), (574, 22535), (581, 22577), (601, 22649), (603, 22658), (608, 22679), (619, 22751), (635, 22868), (665, 23015), (679, 23096), (689, 23171), (696, 23243),

Gene: Sandalphon_19 Start: 17954, Stop: 20491, Start Num: 81

Candidate Starts for Sandalphon_19:

(76, 17942), (Start: 81 @17954 has 221 MA's), (92, 17975), (Start: 104 @17996 has 1 MA's), (121, 18035), (154, 18104), (159, 18113), (160, 18116), (178, 18167), (184, 18182), (202, 18230), (240, 18341), (241, 18344), (252, 18374), (255, 18386), (256, 18389), (273, 18467), (277, 18491), (287, 18557), (295, 18602), (302, 18632), (303, 18638), (305, 18656), (316, 18680), (319, 18689), (335, 18722), (338, 18728), (350, 18758), (363, 18797), (365, 18809), (367, 18818), (373, 18833), (374, 18836), (401, 18947), (402, 18950), (403, 18959), (404, 18965), (410, 18980), (411, 18983), (419, 19004), (428, 19034), (432, 19046), (440, 19079), (462, 19190), (463, 19193), (469, 19220), (471, 19226), (483, 19280), (484, 19283), (514, 19385), (516, 19397), (517, 19400), (528, 19466), (534,

19490), (537, 19511), (539, 19520), (552, 19580), (553, 19583), (562, 19619), (565, 19637), (571, 19649), (574, 19658), (579, 19685), (595, 19754), (598, 19772), (602, 19781), (604, 19793), (610, 19829), (615, 19859), (620, 19880), (626, 19904), (630, 19940), (635, 19994), (647, 20054), (652, 20096), (671, 20174), (681, 20231), (685, 20255), (692, 20309), (696, 20357), (703, 20399), (705, 20423), (706, 20426),

Gene: Sassafra_s_18 Start: 17532, Stop: 20069, Start Num: 81

Candidate Starts for Sassafra_s_18:

(Start: 81 @17532 has 221 MA's), (92, 17553), (Start: 104 @17574 has 1 MA's), (121, 17613), (154, 17682), (159, 17691), (160, 17694), (167, 17712), (184, 17760), (202, 17808), (240, 17919), (241, 17922), (256, 17967), (273, 18045), (277, 18069), (287, 18135), (302, 18210), (303, 18216), (305, 18234), (316, 18258), (319, 18267), (335, 18300), (338, 18306), (350, 18336), (357, 18357), (365, 18387), (367, 18396), (397, 18504), (400, 18516), (401, 18525), (402, 18528), (404, 18543), (410, 18558), (411, 18561), (419, 18582), (432, 18624), (440, 18657), (462, 18768), (463, 18771), (469, 18798), (471, 18804), (483, 18858), (484, 18861), (495, 18888), (514, 18963), (516, 18975), (517, 18978), (528, 19044), (533, 19065), (534, 19068), (537, 19089), (539, 19098), (547, 19140), (552, 19158), (553, 19161), (560, 19191), (565, 19215), (571, 19227), (574, 19236), (595, 19332), (598, 19350), (602, 19359), (604, 19371), (610, 19407), (615, 19437), (618, 19446), (620, 19458), (630, 19518), (635, 19572), (647, 19632), (652, 19674), (681, 19809), (685, 19833), (692, 19887), (696, 19935), (703, 19977), (705, 20001), (706, 20004),

Gene: Sassa_y_25 Start: 21788, Stop: 24184, Start Num: 126

Candidate Starts for Sassa_y_25:

(Start: 126 @21788 has 125 MA's), (195, 21965), (206, 21986), (264, 22133), (288, 22274), (294, 22307), (302, 22340), (309, 22376), (350, 22469), (367, 22529), (374, 22547), (406, 22679), (422, 22724), (453, 22856), (462, 22901), (478, 22961), (510, 23075), (514, 23096), (522, 23135), (525, 23156), (527, 23171), (560, 23321), (562, 23327), (565, 23345), (580, 23399), (598, 23483), (618, 23576), (661, 23822), (696, 24038), (706, 24122), (712, 24155),

Gene: SassyB_18 Start: 17445, Stop: 19982, Start Num: 81

Candidate Starts for SassyB_18:

(76, 17433), (Start: 81 @17445 has 221 MA's), (92, 17466), (Start: 104 @17487 has 1 MA's), (121, 17526), (154, 17595), (159, 17604), (160, 17607), (167, 17625), (178, 17658), (184, 17673), (240, 17832), (241, 17835), (256, 17880), (273, 17958), (277, 17982), (287, 18048), (302, 18123), (303, 18129), (305, 18147), (316, 18171), (318, 18177), (319, 18180), (335, 18213), (338, 18219), (350, 18249), (357, 18270), (365, 18300), (367, 18309), (390, 18390), (403, 18450), (404, 18456), (410, 18471), (411, 18474), (419, 18495), (432, 18537), (440, 18570), (441, 18573), (469, 18711), (471, 18717), (483, 18771), (484, 18774), (495, 18801), (514, 18876), (516, 18888), (517, 18891), (528, 18957), (534, 18981), (537, 19002), (539, 19011), (552, 19071), (553, 19074), (562, 19110), (565, 19128), (574, 19149), (595, 19245), (598, 19263), (602, 19272), (604, 19284), (610, 19320), (615, 19350), (630, 19431), (635, 19485), (652, 19587), (681, 19722), (685, 19746), (692, 19800), (696, 19848), (703, 19890), (705, 19914), (706, 19917),

Gene: Scarlett_26 Start: 20115, Stop: 22574, Start Num: 134

Candidate Starts for Scarlett_26:

(Start: 134 @20115 has 92 MA's), (154, 20163), (196, 20286), (219, 20343), (224, 20355), (256, 20448), (261, 20472), (272, 20523), (303, 20685), (330, 20796), (340, 20835), (347, 20859), (380, 20982), (397, 21054), (417, 21141), (438, 21222), (458, 21324), (467, 21378), (481, 21438), (504, 21516), (505, 21528), (508, 21537), (517, 21579), (525, 21624), (527, 21639), (546, 21726), (551, 21750), (561, 21789), (567, 21822), (581, 21879), (608, 21990), (610, 22014), (613, 22035), (624, 22086), (641, 22215), (667, 22320), (696, 22545),

Gene: SchoolBus_58 Start: 36090, Stop: 38600, Start Num: 96

Candidate Starts for SchoolBus_58:

(Start: 96 @36090 has 28 MA's), (108, 36123), (136, 36192), (137, 36195), (147, 36219), (160, 36243), (170, 36267), (178, 36300), (245, 36507), (248, 36519), (249, 36522), (281, 36669), (282, 36699), (287, 36723), (295, 36753), (296, 36756), (302, 36783), (305, 36807), (318, 36837), (344, 36894), (351, 36918), (363, 36954), (365, 36966), (373, 36990), (374, 36993), (382, 37035), (410, 37131), (411, 37134), (475, 37389), (514, 37533), (525, 37593), (536, 37665), (537, 37668), (558, 37764), (598, 37938), (604, 37959), (622, 38052), (625, 38064), (635, 38154), (650, 38229), (670, 38274), (699, 38475), (704, 38529), (709, 38544),

Gene: Schuy_59 Start: 35881, Stop: 38391, Start Num: 96

Candidate Starts for Schuy_59:

(Start: 96 @35881 has 28 MA's), (108, 35914), (136, 35983), (137, 35986), (147, 36010), (160, 36034), (170, 36058), (178, 36091), (245, 36298), (248, 36310), (249, 36313), (281, 36460), (282, 36490), (287, 36514), (295, 36544), (296, 36547), (302, 36574), (305, 36598), (318, 36628), (344, 36685), (351, 36709), (363, 36745), (365, 36757), (373, 36781), (374, 36784), (382, 36826), (410, 36922), (411, 36925), (475, 37180), (514, 37324), (525, 37384), (536, 37456), (537, 37459), (558, 37555), (598, 37729), (604, 37750), (622, 37843), (625, 37855), (635, 37945), (650, 38020), (670, 38065), (699, 38266), (704, 38320), (709, 38335),

Gene: Scottish_19 Start: 18701, Stop: 21238, Start Num: 81

Candidate Starts for Scottish_19:

(76, 18689), (Start: 81 @18701 has 221 MA's), (92, 18722), (Start: 104 @18743 has 1 MA's), (121, 18782), (154, 18851), (159, 18860), (160, 18863), (167, 18881), (184, 18929), (202, 18977), (240, 19088), (241, 19091), (256, 19136), (273, 19214), (277, 19238), (287, 19304), (295, 19349), (302, 19379), (303, 19385), (305, 19403), (316, 19427), (319, 19436), (335, 19469), (338, 19475), (350, 19505), (363, 19544), (365, 19556), (367, 19565), (373, 19580), (374, 19583), (401, 19694), (402, 19697), (403, 19706), (404, 19712), (410, 19727), (411, 19730), (419, 19751), (428, 19781), (432, 19793), (440, 19826), (462, 19937), (463, 19940), (469, 19967), (471, 19973), (483, 20027), (484, 20030), (514, 20132), (516, 20144), (517, 20147), (528, 20213), (534, 20237), (537, 20258), (539, 20267), (552, 20327), (553, 20330), (562, 20366), (565, 20384), (574, 20405), (579, 20432), (595, 20501), (598, 20519), (602, 20528), (604, 20540), (610, 20576), (620, 20627), (624, 20645), (630, 20687), (635, 20741), (652, 20843), (681, 20978), (685, 21002), (692, 21056), (700, 21125), (705, 21170), (706, 21173),

Gene: Seabastian_18 Start: 17634, Stop: 20171, Start Num: 81

Candidate Starts for Seabastian_18:

(Start: 81 @17634 has 221 MA's), (92, 17655), (Start: 104 @17676 has 1 MA's), (121, 17715), (154, 17784), (159, 17793), (160, 17796), (167, 17814), (184, 17862), (240, 18021), (241, 18024), (255, 18066), (256, 18069), (273, 18147), (276, 18168), (277, 18171), (287, 18237), (288, 18246), (295, 18282), (302, 18312), (303, 18318), (316, 18360), (318, 18366), (319, 18369), (335, 18402), (338, 18408), (350, 18438), (357, 18459), (365, 18489), (367, 18498), (397, 18606), (400, 18618), (401, 18627), (402, 18630), (403, 18639), (404, 18645), (410, 18660), (411, 18663), (419, 18684), (432, 18726), (440, 18759), (469, 18900), (471, 18906), (483, 18960), (484, 18963), (495, 18990), (514, 19065), (516, 19077), (517, 19080), (528, 19146), (533, 19167), (534, 19170), (537, 19191), (547, 19242), (552, 19260), (553, 19263), (560, 19293), (565, 19317), (571, 19329), (595, 19434), (598, 19452), (602, 19461), (604, 19473), (610, 19509), (615, 19539), (620, 19560), (626, 19584), (630, 19620), (647, 19734), (652, 19776), (671, 19854), (681, 19911), (685, 19935), (692, 19989), (696, 20037), (703, 20079), (705, 20103), (706, 20106),

Gene: Seagreen_19 Start: 17241, Stop: 19778, Start Num: 81

Candidate Starts for Seagreen_19:

(76, 17229), (Start: 81 @17241 has 221 MA's), (92, 17262), (Start: 104 @17283 has 1 MA's), (121, 17322), (154, 17391), (159, 17400), (160, 17403), (167, 17421), (178, 17454), (184, 17469), (202,

17517), (238, 17622), (240, 17628), (241, 17631), (255, 17673), (256, 17676), (273, 17754), (277, 17778), (287, 17844), (295, 17889), (302, 17919), (303, 17925), (305, 17943), (316, 17967), (319, 17976), (335, 18009), (338, 18015), (350, 18045), (363, 18084), (365, 18096), (367, 18105), (373, 18120), (374, 18123), (401, 18234), (402, 18237), (403, 18246), (404, 18252), (410, 18267), (411, 18270), (419, 18291), (428, 18321), (432, 18333), (440, 18366), (462, 18477), (463, 18480), (469, 18507), (471, 18513), (483, 18567), (484, 18570), (514, 18672), (516, 18684), (517, 18687), (528, 18753), (534, 18777), (537, 18798), (539, 18807), (552, 18867), (553, 18870), (562, 18906), (565, 18924), (571, 18936), (574, 18945), (579, 18972), (595, 19041), (598, 19059), (602, 19068), (604, 19080), (610, 19116), (615, 19146), (620, 19167), (626, 19191), (630, 19227), (635, 19281), (647, 19341), (652, 19383), (671, 19461), (681, 19518), (685, 19542), (692, 19596), (696, 19644), (703, 19686), (705, 19710), (706, 19713),

Gene: Send513_30 Start: 24637, Stop: 28131, Start Num: 2

Candidate Starts for Send513_30:

(Start: 2 @24637 has 8 MA's), (4, 24649), (Start: 5 @24661 has 1 MA's), (8, 24844), (11, 24925), (17, 25024), (19, 25048), (20, 25066), (37, 25225), (41, 25258), (48, 25306), (54, 25345), (75, 25471), (77, 25480), (145, 25666), (222, 25867), (266, 26044), (282, 26143), (288, 26176), (297, 26221), (300, 26233), (308, 26275), (311, 26281), (313, 26284), (343, 26353), (366, 26431), (367, 26437), (379, 26482), (380, 26485), (401, 26569), (465, 26824), (475, 26863), (512, 27010), (513, 27016), (545, 27190), (553, 27223), (557, 27244), (560, 27253), (566, 27280), (620, 27523), (638, 27667), (680, 27865), (684, 27895), (692, 27952), (695, 27988), (700, 28015), (701, 28027),

Gene: Shaboozey_30 Start: 25923, Stop: 28418, Start Num: 81

Candidate Starts for Shaboozey_30:

(Start: 81 @25923 has 221 MA's), (167, 26118), (178, 26154), (184, 26169), (224, 26256), (229, 26271), (241, 26307), (242, 26313), (256, 26346), (260, 26358), (292, 26529), (295, 26538), (302, 26562), (318, 26616), (335, 26652), (338, 26658), (350, 26688), (359, 26718), (365, 26739), (367, 26748), (373, 26763), (391, 26832), (411, 26913), (415, 26922), (422, 26943), (423, 26946), (432, 26976), (441, 27012), (450, 27063), (451, 27072), (453, 27075), (460, 27102), (461, 27111), (465, 27132), (483, 27210), (484, 27213), (507, 27285), (515, 27321), (516, 27327), (524, 27369), (525, 27375), (533, 27417), (534, 27420), (537, 27441), (538, 27447), (539, 27450), (545, 27480), (578, 27621), (580, 27630), (581, 27639), (587, 27672), (595, 27696), (596, 27699), (598, 27714), (604, 27735), (610, 27771), (611, 27777), (612, 27783), (616, 27804), (622, 27831), (639, 27966), (651, 28038), (653, 28044), (661, 28062), (681, 28161), (696, 28278), (707, 28359), (709, 28362), (712, 28389),

Gene: ShamWow_26 Start: 22284, Stop: 24680, Start Num: 126

Candidate Starts for ShamWow_26:

(Start: 126 @22284 has 125 MA's), (195, 22461), (206, 22482), (264, 22629), (288, 22770), (294, 22803), (302, 22836), (309, 22872), (350, 22965), (367, 23025), (374, 23043), (415, 23199), (422, 23220), (450, 23340), (453, 23352), (462, 23397), (514, 23592), (517, 23607), (525, 23652), (527, 23667), (562, 23823), (565, 23841), (568, 23850), (598, 23979), (599, 23982), (634, 24192), (636, 24204), (661, 24318), (696, 24534), (706, 24618), (710, 24642), (712, 24651),

Gene: Shauna1_18 Start: 17450, Stop: 19927, Start Num: 81

Candidate Starts for Shauna1_18:

(78, 17438), (Start: 81 @17450 has 221 MA's), (92, 17471), (Start: 104 @17492 has 1 MA's), (122, 17531), (154, 17600), (159, 17609), (160, 17612), (167, 17630), (178, 17663), (184, 17678), (224, 17765), (229, 17780), (241, 17816), (242, 17822), (256, 17855), (260, 17867), (292, 18038), (295, 18047), (302, 18071), (318, 18125), (335, 18161), (338, 18167), (350, 18197), (359, 18227), (365, 18248), (367, 18257), (391, 18341), (404, 18404), (411, 18422), (415, 18431), (422, 18452), (423, 18455), (428, 18473), (432, 18485), (439, 18512), (441, 18521), (450, 18572), (451, 18581), (453, 18584), (460, 18611), (461, 18620), (465, 18641), (483, 18719), (484, 18722), (515, 18830), (516,

18836), (525, 18884), (533, 18926), (534, 18929), (537, 18950), (538, 18956), (539, 18959), (545, 18989), (578, 19130), (581, 19148), (587, 19181), (595, 19205), (596, 19208), (598, 19223), (604, 19244), (610, 19280), (611, 19286), (616, 19313), (622, 19340), (639, 19475), (649, 19523), (651, 19547), (661, 19571), (681, 19670), (684, 19691), (687, 19709), (696, 19787), (700, 19808), (709, 19871), (710, 19889), (713, 19907),

Gene: ShereKhan_28 Start: 23267, Stop: 25663, Start Num: 126

Candidate Starts for ShereKhan_28:

(Start: 126 @23267 has 125 MA's), (195, 23444), (206, 23465), (264, 23612), (288, 23753), (294, 23786), (302, 23819), (309, 23855), (350, 23948), (367, 24008), (374, 24026), (406, 24158), (422, 24203), (453, 24335), (462, 24380), (478, 24440), (510, 24554), (514, 24575), (522, 24614), (525, 24635), (527, 24650), (560, 24800), (562, 24806), (565, 24824), (580, 24878), (598, 24962), (618, 25055), (661, 25301), (696, 25517), (706, 25601), (712, 25634),

Gene: ShiLan_18 Start: 17405, Stop: 19957, Start Num: 81

Candidate Starts for ShiLan_18:

(Start: 81 @17405 has 221 MA's), (121, 17486), (154, 17555), (159, 17564), (160, 17567), (167, 17585), (184, 17633), (201, 17678), (240, 17792), (241, 17795), (244, 17807), (253, 17828), (255, 17837), (256, 17840), (267, 17888), (273, 17918), (282, 17984), (288, 18017), (295, 18053), (301, 18077), (318, 18137), (319, 18140), (326, 18158), (355, 18221), (357, 18224), (363, 18242), (367, 18263), (374, 18281), (380, 18308), (385, 18329), (396, 18362), (403, 18404), (404, 18410), (406, 18413), (411, 18428), (421, 18455), (422, 18458), (428, 18479), (432, 18491), (440, 18524), (460, 18617), (483, 18725), (489, 18749), (495, 18755), (500, 18773), (501, 18776), (507, 18800), (514, 18830), (519, 18854), (525, 18890), (526, 18896), (527, 18905), (533, 18932), (543, 18995), (547, 19019), (548, 19034), (560, 19076), (575, 19127), (596, 19223), (598, 19238), (602, 19247), (607, 19271), (618, 19334), (626, 19370), (678, 19676), (685, 19721), (696, 19823),

Gene: ShiaSurprise_27 Start: 20912, Stop: 23344, Start Num: 134

Candidate Starts for ShiaSurprise_27:

(Start: 134 @20912 has 92 MA's), (174, 21011), (263, 21272), (267, 21293), (305, 21500), (318, 21533), (323, 21563), (347, 21635), (352, 21659), (401, 21857), (412, 21902), (416, 21914), (420, 21923), (433, 21974), (467, 22154), (472, 22169), (487, 22238), (492, 22250), (508, 22313), (517, 22355), (525, 22394), (526, 22400), (527, 22409), (532, 22430), (544, 22490), (574, 22607), (581, 22649), (601, 22721), (603, 22730), (608, 22751), (619, 22823), (623, 22844), (635, 22940), (665, 23087), (679, 23168), (696, 23315),

Gene: Shida_58 Start: 35788, Stop: 38298, Start Num: 96

Candidate Starts for Shida_58:

(Start: 96 @35788 has 28 MA's), (108, 35821), (136, 35890), (137, 35893), (147, 35917), (160, 35941), (170, 35965), (178, 35998), (245, 36205), (248, 36217), (249, 36220), (281, 36367), (282, 36397), (287, 36421), (295, 36451), (296, 36454), (302, 36481), (305, 36505), (318, 36535), (344, 36592), (363, 36652), (365, 36664), (373, 36688), (374, 36691), (382, 36733), (410, 36829), (411, 36832), (475, 37087), (514, 37231), (525, 37291), (536, 37363), (537, 37366), (558, 37462), (598, 37636), (604, 37657), (622, 37750), (625, 37762), (635, 37852), (650, 37927), (670, 37972), (699, 38173), (704, 38227), (709, 38242),

Gene: Shipwreck_20 Start: 18739, Stop: 21243, Start Num: 88

Candidate Starts for Shipwreck_20:

(Start: 88 @18739 has 3 MA's), (160, 18892), (276, 19297), (281, 19312), (282, 19342), (284, 19348), (287, 19366), (316, 19474), (338, 19525), (374, 19636), (375, 19639), (382, 19678), (396, 19711), (411, 19777), (432, 19837), (439, 19864), (440, 19870), (514, 20176), (525, 20236), (532, 20284), (533, 20287), (536, 20308), (537, 20311), (598, 20572), (624, 20695), (625, 20698), (635, 20788), (647, 20845), (650, 20866), (673, 20926), (701, 21127), (704, 21169),

Gene: ShowerHandel_18 Start: 17406, Stop: 19958, Start Num: 81

Candidate Starts for ShowerHandel_18:

(Start: 81 @17406 has 221 MA's), (121, 17487), (154, 17556), (159, 17565), (160, 17568), (167, 17586), (184, 17634), (201, 17679), (240, 17793), (241, 17796), (244, 17808), (253, 17829), (255, 17838), (256, 17841), (267, 17889), (273, 17919), (282, 17985), (288, 18018), (295, 18054), (301, 18078), (318, 18138), (319, 18141), (326, 18159), (355, 18222), (357, 18225), (363, 18243), (367, 18264), (374, 18282), (380, 18309), (385, 18330), (396, 18363), (403, 18405), (404, 18411), (406, 18414), (411, 18429), (421, 18456), (422, 18459), (428, 18480), (432, 18492), (440, 18525), (460, 18618), (483, 18726), (489, 18750), (495, 18756), (500, 18774), (501, 18777), (507, 18801), (514, 18831), (519, 18855), (525, 18891), (526, 18897), (527, 18906), (533, 18933), (543, 18996), (547, 19020), (548, 19035), (560, 19077), (575, 19128), (596, 19224), (598, 19239), (602, 19248), (607, 19272), (618, 19335), (626, 19371), (678, 19677), (685, 19722), (696, 19824),

Gene: ShroomBoi_18 Start: 17435, Stop: 19912, Start Num: 81

Candidate Starts for ShroomBoi_18:

(Start: 81 @17435 has 221 MA's), (92, 17456), (Start: 104 @17477 has 1 MA's), (122, 17516), (154, 17585), (159, 17594), (160, 17597), (167, 17615), (184, 17663), (224, 17750), (229, 17765), (241, 17801), (242, 17807), (256, 17840), (260, 17852), (292, 18023), (295, 18032), (302, 18056), (318, 18110), (335, 18146), (338, 18152), (350, 18182), (359, 18212), (365, 18233), (367, 18242), (373, 18257), (391, 18326), (411, 18407), (415, 18416), (423, 18440), (432, 18470), (441, 18506), (450, 18557), (451, 18566), (453, 18569), (460, 18596), (461, 18605), (465, 18626), (483, 18704), (515, 18815), (516, 18821), (525, 18869), (533, 18911), (534, 18914), (537, 18935), (538, 18941), (539, 18944), (545, 18974), (578, 19115), (581, 19133), (587, 19166), (595, 19190), (596, 19193), (598, 19208), (604, 19229), (610, 19265), (611, 19271), (612, 19277), (616, 19298), (622, 19325), (639, 19460), (649, 19508), (651, 19532), (653, 19538), (661, 19556), (681, 19655), (696, 19772), (707, 19853), (709, 19856), (712, 19883),

Gene: SiSi_18 Start: 17389, Stop: 19926, Start Num: 81

Candidate Starts for SiSi_18:

(76, 17377), (Start: 81 @17389 has 221 MA's), (92, 17410), (Start: 104 @17431 has 1 MA's), (121, 17470), (154, 17539), (159, 17548), (160, 17551), (167, 17569), (178, 17602), (184, 17617), (202, 17665), (240, 17776), (241, 17779), (252, 17809), (255, 17821), (256, 17824), (273, 17902), (277, 17926), (287, 17992), (295, 18037), (302, 18067), (303, 18073), (305, 18091), (316, 18115), (319, 18124), (335, 18157), (338, 18163), (350, 18193), (363, 18232), (365, 18244), (367, 18253), (373, 18268), (374, 18271), (401, 18382), (403, 18394), (404, 18400), (410, 18415), (411, 18418), (419, 18439), (428, 18469), (432, 18481), (440, 18514), (453, 18580), (462, 18625), (463, 18628), (469, 18655), (471, 18661), (483, 18715), (484, 18718), (495, 18745), (514, 18820), (516, 18832), (517, 18835), (528, 18901), (534, 18925), (539, 18955), (547, 18997), (552, 19015), (553, 19018), (562, 19054), (565, 19072), (574, 19093), (579, 19120), (595, 19189), (598, 19207), (602, 19216), (604, 19228), (610, 19264), (620, 19315), (624, 19333), (630, 19375), (635, 19429), (647, 19489), (652, 19531), (671, 19609), (681, 19666), (685, 19690), (692, 19744), (696, 19792), (705, 19858), (706, 19861),

Gene: SilverChicken_24 Start: 17093, Stop: 19555, Start Num: 122

Candidate Starts for SilverChicken_24:

(117, 17084), (122, 17093), (152, 17153), (168, 17189), (183, 17234), (187, 17246), (206, 17288), (220, 17315), (226, 17333), (231, 17345), (238, 17378), (239, 17381), (256, 17438), (258, 17447), (266, 17483), (276, 17537), (282, 17582), (287, 17606), (288, 17615), (292, 17642), (319, 17738), (326, 17756), (335, 17771), (338, 17777), (345, 17795), (355, 17819), (370, 17867), (373, 17876), (374, 17879), (385, 17927), (390, 17942), (399, 17978), (400, 17981), (404, 18008), (406, 18011), (410, 18023), (419, 18047), (423, 18059), (428, 18077), (432, 18089), (440, 18122), (444, 18143), (460, 18215), (463, 18236), (489, 18347), (495, 18353), (500, 18371), (501, 18374), (507, 18398),

(514, 18428), (519, 18452), (525, 18488), (526, 18494), (527, 18503), (533, 18530), (543, 18593), (547, 18617), (548, 18632), (560, 18674), (562, 18680), (575, 18725), (596, 18821), (598, 18836), (602, 18845), (607, 18869), (618, 18932), (626, 18968), (635, 19058), (678, 19274), (684, 19316), (685, 19319), (696, 19421),

Gene: Simpliphy_27 Start: 22029, Stop: 24425, Start Num: 126

Candidate Starts for Simpliphy_27:

(Start: 126 @22029 has 125 MA's), (195, 22206), (206, 22227), (264, 22374), (294, 22548), (302, 22581), (309, 22617), (350, 22710), (367, 22770), (374, 22788), (406, 22920), (422, 22965), (453, 23097), (462, 23142), (478, 23202), (510, 23316), (514, 23337), (522, 23376), (525, 23397), (527, 23412), (560, 23562), (562, 23568), (565, 23586), (580, 23640), (598, 23724), (618, 23817), (661, 24063), (696, 24279), (706, 24363), (712, 24396),

Gene: SimranZ1_19 Start: 17257, Stop: 19794, Start Num: 81

Candidate Starts for SimranZ1_19:

(Start: 81 @17257 has 221 MA's), (92, 17278), (Start: 104 @17299 has 1 MA's), (121, 17338), (154, 17407), (159, 17416), (160, 17419), (167, 17437), (184, 17485), (240, 17644), (241, 17647), (252, 17677), (255, 17689), (256, 17692), (273, 17770), (277, 17794), (287, 17860), (302, 17935), (303, 17941), (305, 17959), (316, 17983), (319, 17992), (335, 18025), (338, 18031), (350, 18061), (357, 18082), (363, 18100), (365, 18112), (367, 18121), (378, 18154), (401, 18250), (402, 18253), (403, 18262), (404, 18268), (410, 18283), (411, 18286), (419, 18307), (432, 18349), (440, 18382), (453, 18448), (462, 18493), (463, 18496), (469, 18523), (471, 18529), (483, 18583), (484, 18586), (495, 18613), (501, 18634), (514, 18688), (516, 18700), (517, 18703), (528, 18769), (534, 18793), (537, 18814), (539, 18823), (547, 18865), (552, 18883), (553, 18886), (562, 18922), (565, 18940), (571, 18952), (574, 18961), (579, 18988), (594, 19045), (595, 19057), (598, 19075), (602, 19084), (604, 19096), (610, 19132), (615, 19162), (620, 19183), (626, 19207), (630, 19243), (652, 19399), (681, 19534), (685, 19558), (692, 19612), (696, 19660), (705, 19726), (706, 19729),

Gene: SirDuracell_25 Start: 20950, Stop: 23346, Start Num: 126

Candidate Starts for SirDuracell_25:

(Start: 126 @20950 has 125 MA's), (195, 21127), (206, 21148), (264, 21295), (288, 21436), (294, 21469), (302, 21502), (309, 21538), (350, 21631), (367, 21691), (374, 21709), (396, 21790), (453, 22018), (462, 22063), (514, 22258), (515, 22264), (517, 22273), (525, 22318), (527, 22333), (562, 22489), (565, 22507), (568, 22516), (598, 22645), (599, 22648), (634, 22858), (636, 22870), (661, 22984), (696, 23200), (706, 23284), (710, 23308), (712, 23317),

Gene: SirHarley_29 Start: 24248, Stop: 26518, Start Num: 39

Candidate Starts for SirHarley_29:

(Start: 39 @24248 has 22 MA's), (59, 24383), (61, 24392), (102, 24566), (105, 24572), (108, 24584), (167, 24737), (173, 24752), (177, 24767), (277, 25148), (279, 25154), (284, 25199), (301, 25286), (346, 25412), (370, 25487), (372, 25493), (382, 25541), (394, 25571), (400, 25595), (449, 25784), (456, 25811), (465, 25859), (482, 25931), (497, 25970), (503, 25991), (506, 26006), (511, 26024), (517, 26054), (536, 26138), (590, 26339), (600, 26381), (627, 26507),

Gene: SirPhilip_26 Start: 19755, Stop: 22217, Start Num: 134

Candidate Starts for SirPhilip_26:

(Start: 134 @19755 has 92 MA's), (143, 19782), (154, 19803), (196, 19926), (205, 19944), (221, 19986), (224, 19995), (256, 20088), (261, 20112), (352, 20523), (417, 20784), (429, 20823), (437, 20862), (438, 20865), (467, 21024), (472, 21039), (490, 21117), (493, 21123), (508, 21183), (517, 21225), (525, 21270), (526, 21276), (527, 21285), (531, 21306), (552, 21402), (556, 21423), (567, 21471), (577, 21507), (585, 21546), (601, 21597), (608, 21627), (619, 21699), (633, 21801), (635, 21816), (655, 21924), (662, 21954), (693, 22146), (697, 22191),

Gene: Slim_20 Start: 17189, Stop: 19726, Start Num: 81

Candidate Starts for Slim_20:

(Start: 81 @17189 has 221 MA's), (92, 17210), (Start: 104 @17231 has 1 MA's), (121, 17270), (154, 17339), (159, 17348), (160, 17351), (167, 17369), (184, 17417), (238, 17570), (241, 17579), (256, 17624), (276, 17723), (277, 17726), (287, 17792), (302, 17867), (303, 17873), (305, 17891), (316, 17915), (318, 17921), (319, 17924), (335, 17957), (338, 17963), (350, 17993), (357, 18014), (365, 18044), (367, 18053), (373, 18068), (374, 18071), (401, 18182), (402, 18185), (403, 18194), (404, 18200), (410, 18215), (411, 18218), (419, 18239), (428, 18269), (432, 18281), (440, 18314), (462, 18425), (463, 18428), (469, 18455), (471, 18461), (483, 18515), (484, 18518), (514, 18620), (516, 18632), (517, 18635), (528, 18701), (534, 18725), (537, 18746), (539, 18755), (552, 18815), (553, 18818), (562, 18854), (565, 18872), (571, 18884), (574, 18893), (579, 18920), (594, 18977), (595, 18989), (598, 19007), (602, 19016), (604, 19028), (610, 19064), (615, 19094), (618, 19103), (620, 19115), (630, 19175), (635, 19229), (647, 19289), (652, 19331), (681, 19466), (685, 19490), (692, 19544), (696, 19592), (703, 19634), (705, 19658), (706, 19661),

Gene: Slimphazie_27 Start: 20879, Stop: 23311, Start Num: 134

Candidate Starts for Slimphazie_27:

(Start: 134 @20879 has 92 MA's), (174, 20978), (263, 21239), (267, 21260), (305, 21467), (318, 21500), (323, 21530), (347, 21602), (352, 21626), (365, 21671), (401, 21824), (412, 21869), (416, 21881), (420, 21890), (433, 21941), (467, 22121), (472, 22136), (487, 22205), (492, 22217), (517, 22322), (525, 22361), (526, 22367), (527, 22376), (544, 22457), (554, 22505), (575, 22580), (581, 22616), (603, 22697), (608, 22718), (623, 22811), (635, 22907), (665, 23054), (673, 23096), (679, 23135), (689, 23210),

Gene: Smooch_61 Start: 37810, Stop: 40320, Start Num: 96

Candidate Starts for Smooch_61:

(Start: 96 @37810 has 28 MA's), (108, 37843), (136, 37912), (137, 37915), (147, 37939), (160, 37963), (170, 37987), (178, 38020), (245, 38227), (248, 38239), (249, 38242), (281, 38389), (282, 38419), (287, 38443), (295, 38473), (296, 38476), (302, 38503), (305, 38527), (318, 38557), (344, 38614), (363, 38674), (365, 38686), (373, 38710), (374, 38713), (382, 38755), (410, 38851), (411, 38854), (462, 39058), (475, 39109), (514, 39253), (525, 39313), (536, 39385), (537, 39388), (558, 39484), (598, 39658), (604, 39679), (622, 39772), (625, 39784), (635, 39874), (650, 39949), (670, 39994), (699, 40195), (704, 40249), (709, 40264),

Gene: SophKB_26 Start: 22283, Stop: 24679, Start Num: 126

Candidate Starts for SophKB_26:

(Start: 126 @22283 has 125 MA's), (195, 22460), (206, 22481), (264, 22628), (288, 22769), (294, 22802), (302, 22835), (309, 22871), (350, 22964), (367, 23024), (374, 23042), (406, 23174), (422, 23219), (453, 23351), (462, 23396), (478, 23456), (510, 23570), (514, 23591), (522, 23630), (525, 23651), (527, 23666), (560, 23816), (562, 23822), (565, 23840), (580, 23894), (598, 23978), (618, 24071), (661, 24317), (696, 24533), (706, 24617), (712, 24650),

Gene: Sotrice96_26 Start: 22239, Stop: 24635, Start Num: 126

Candidate Starts for Sotrice96_26:

(Start: 126 @22239 has 125 MA's), (195, 22416), (206, 22437), (264, 22584), (288, 22725), (294, 22758), (302, 22791), (309, 22827), (350, 22920), (367, 22980), (374, 22998), (396, 23079), (453, 23307), (462, 23352), (514, 23547), (515, 23553), (517, 23562), (525, 23607), (527, 23622), (562, 23778), (565, 23796), (568, 23805), (598, 23934), (599, 23937), (634, 24147), (636, 24159), (661, 24273), (696, 24489), (706, 24573), (710, 24597), (712, 24606),

Gene: Soul22_24 Start: 17091, Stop: 19640, Start Num: 65

Candidate Starts for Soul22_24:

(63, 17082), (Start: 65 @17091 has 7 MA's), (Start: 81 @17151 has 221 MA's), (101, 17187), (145, 17286), (202, 17427), (224, 17466), (229, 17481), (241, 17517), (242, 17523), (243, 17526), (254, 17544), (260, 17568), (266, 17592), (267, 17595), (292, 17739), (295, 17748), (302, 17772), (305, 17796), (316, 17820), (318, 17826), (326, 17847), (338, 17868), (350, 17898), (359, 17928), (365, 17949), (391, 18042), (396, 18057), (397, 18066), (401, 18087), (402, 18090), (415, 18132), (428, 18174), (429, 18177), (432, 18186), (439, 18213), (441, 18222), (447, 18261), (451, 18282), (453, 18285), (461, 18321), (465, 18342), (483, 18420), (484, 18423), (504, 18477), (516, 18537), (532, 18624), (534, 18630), (536, 18648), (537, 18651), (545, 18687), (557, 18741), (560, 18750), (578, 18828), (581, 18846), (589, 18882), (591, 18885), (595, 18903), (596, 18906), (598, 18921), (610, 18978), (612, 18990), (626, 19053), (630, 19086), (639, 19173), (649, 19221), (651, 19245), (657, 19272), (661, 19281), (670, 19320), (677, 19359), (681, 19383), (684, 19404), (696, 19500), (700, 19521), (709, 19584), (712, 19611), (713, 19620),

Gene: Sparkdehlily_18 Start: 17429, Stop: 19966, Start Num: 81

Candidate Starts for Sparkdehlily_18:

(Start: 81 @17429 has 221 MA's), (92, 17450), (Start: 104 @17471 has 1 MA's), (121, 17510), (154, 17579), (159, 17588), (160, 17591), (167, 17609), (184, 17657), (238, 17810), (241, 17819), (256, 17864), (273, 17942), (277, 17966), (287, 18032), (295, 18077), (302, 18107), (303, 18113), (305, 18131), (316, 18155), (319, 18164), (335, 18197), (338, 18203), (350, 18233), (363, 18272), (367, 18293), (373, 18308), (374, 18311), (402, 18425), (403, 18434), (404, 18440), (411, 18458), (419, 18479), (428, 18509), (432, 18521), (440, 18554), (462, 18665), (463, 18668), (469, 18695), (471, 18701), (483, 18755), (484, 18758), (511, 18845), (514, 18860), (517, 18875), (534, 18965), (537, 18986), (539, 18995), (552, 19055), (553, 19058), (562, 19094), (565, 19112), (571, 19124), (574, 19133), (579, 19160), (595, 19229), (598, 19247), (602, 19256), (604, 19268), (610, 19304), (615, 19334), (620, 19355), (626, 19379), (630, 19415), (635, 19469), (652, 19571), (671, 19649), (681, 19706), (685, 19730), (692, 19784), (696, 19832), (703, 19874), (708, 19907), (709, 19910),

Gene: Spartacus_19 Start: 17481, Stop: 20018, Start Num: 81

Candidate Starts for Spartacus_19:

(Start: 81 @17481 has 221 MA's), (128, 17571), (154, 17631), (159, 17640), (160, 17643), (167, 17661), (178, 17694), (184, 17709), (202, 17757), (240, 17868), (241, 17871), (252, 17901), (256, 17916), (273, 17994), (287, 18084), (295, 18129), (302, 18159), (303, 18165), (305, 18183), (316, 18207), (319, 18216), (335, 18249), (338, 18255), (350, 18285), (363, 18324), (365, 18336), (367, 18345), (373, 18360), (374, 18363), (401, 18474), (402, 18477), (403, 18486), (404, 18492), (410, 18507), (411, 18510), (419, 18531), (428, 18561), (432, 18573), (440, 18606), (462, 18717), (463, 18720), (469, 18747), (471, 18753), (483, 18807), (484, 18810), (511, 18897), (514, 18912), (516, 18924), (517, 18927), (528, 18993), (537, 19038), (539, 19047), (552, 19107), (553, 19110), (562, 19146), (565, 19164), (571, 19176), (574, 19185), (579, 19212), (595, 19281), (598, 19299), (602, 19308), (604, 19320), (610, 19356), (615, 19386), (620, 19407), (626, 19431), (630, 19467), (635, 19521), (647, 19581), (652, 19623), (671, 19701), (681, 19758), (685, 19782), (692, 19836), (696, 19884), (703, 19926), (705, 19950), (706, 19953),

Gene: Spikelee_19 Start: 17223, Stop: 19760, Start Num: 81

Candidate Starts for Spikelee_19:

(Start: 81 @17223 has 221 MA's), (92, 17244), (Start: 104 @17265 has 1 MA's), (121, 17304), (154, 17373), (159, 17382), (160, 17385), (167, 17403), (184, 17451), (238, 17604), (241, 17613), (256, 17658), (276, 17757), (277, 17760), (287, 17826), (302, 17901), (303, 17907), (305, 17925), (316, 17949), (318, 17955), (319, 17958), (335, 17991), (338, 17997), (350, 18027), (357, 18048), (365, 18078), (367, 18087), (373, 18102), (374, 18105), (401, 18216), (402, 18219), (403, 18228), (404, 18234), (410, 18249), (411, 18252), (419, 18273), (428, 18303), (432, 18315), (440, 18348), (462, 18459), (463, 18462), (469, 18489), (471, 18495), (483, 18549), (484, 18552), (511, 18639), (514, 18654), (516, 18666), (517, 18669), (528, 18735), (534, 18759), (537, 18780), (539, 18789), (552, 18849), (553, 18852), (562, 18888), (565, 18906), (571, 18918), (574, 18927), (579, 18954), (594,

19011), (595, 19023), (598, 19041), (602, 19050), (604, 19062), (610, 19098), (615, 19128), (618, 19137), (620, 19149), (630, 19209), (635, 19263), (647, 19323), (652, 19365), (681, 19500), (685, 19524), (692, 19578), (696, 19626), (703, 19668), (705, 19692), (706, 19695),

Gene: Spock_27 Start: 20912, Stop: 23344, Start Num: 134

Candidate Starts for Spock_27:

(Start: 134 @20912 has 92 MA's), (174, 21011), (263, 21272), (267, 21293), (305, 21500), (318, 21533), (323, 21563), (347, 21635), (352, 21659), (401, 21857), (412, 21902), (416, 21914), (420, 21923), (433, 21974), (467, 22154), (472, 22169), (487, 22238), (492, 22250), (508, 22313), (517, 22355), (525, 22394), (526, 22400), (527, 22409), (532, 22430), (544, 22490), (574, 22607), (581, 22649), (601, 22721), (603, 22730), (608, 22751), (619, 22823), (623, 22844), (635, 22940), (665, 23087), (679, 23168), (696, 23315),

Gene: Spoonbill_18 Start: 17404, Stop: 19956, Start Num: 81

Candidate Starts for Spoonbill_18:

(Start: 81 @17404 has 221 MA's), (121, 17485), (154, 17554), (159, 17563), (160, 17566), (167, 17584), (184, 17632), (201, 17677), (240, 17791), (241, 17794), (244, 17806), (253, 17827), (255, 17836), (256, 17839), (267, 17887), (273, 17917), (282, 17983), (288, 18016), (295, 18052), (301, 18076), (318, 18136), (319, 18139), (326, 18157), (355, 18220), (357, 18223), (363, 18241), (367, 18262), (374, 18280), (380, 18307), (385, 18328), (396, 18361), (403, 18403), (404, 18409), (406, 18412), (411, 18427), (421, 18454), (422, 18457), (428, 18478), (432, 18490), (440, 18523), (460, 18616), (483, 18724), (489, 18748), (495, 18754), (500, 18772), (501, 18775), (507, 18799), (514, 18829), (519, 18853), (525, 18889), (526, 18895), (527, 18904), (533, 18931), (543, 18994), (547, 19018), (548, 19033), (560, 19075), (575, 19126), (596, 19222), (598, 19237), (602, 19246), (607, 19270), (618, 19333), (626, 19369), (678, 19675), (685, 19720), (696, 19822),

Gene: Squint_35 Start: 27671, Stop: 30178, Start Num: 81

Candidate Starts for Squint_35:

(Start: 81 @27671 has 221 MA's), (167, 27866), (178, 27902), (184, 27917), (224, 28004), (229, 28019), (256, 28094), (260, 28106), (267, 28133), (285, 28238), (292, 28277), (295, 28286), (302, 28310), (303, 28316), (305, 28334), (312, 28352), (319, 28367), (322, 28376), (326, 28385), (335, 28400), (346, 28427), (350, 28436), (363, 28475), (365, 28487), (367, 28496), (391, 28580), (411, 28661), (422, 28691), (423, 28694), (432, 28724), (439, 28751), (441, 28760), (450, 28811), (451, 28820), (453, 28823), (461, 28859), (465, 28880), (474, 28916), (515, 29069), (525, 29123), (534, 29168), (536, 29186), (537, 29189), (545, 29228), (578, 29375), (580, 29384), (596, 29453), (598, 29468), (630, 29633), (639, 29720), (649, 29768), (661, 29819), (677, 29897), (707, 30119), (709, 30122), (712, 30149),

Gene: StAnnes_18 Start: 17447, Stop: 19984, Start Num: 81

Candidate Starts for StAnnes_18:

(76, 17435), (Start: 81 @17447 has 221 MA's), (92, 17468), (Start: 104 @17489 has 1 MA's), (121, 17528), (159, 17606), (160, 17609), (167, 17627), (178, 17660), (184, 17675), (202, 17723), (240, 17834), (241, 17837), (252, 17867), (255, 17879), (256, 17882), (273, 17960), (277, 17984), (287, 18050), (295, 18095), (302, 18125), (303, 18131), (305, 18149), (316, 18173), (319, 18182), (335, 18215), (338, 18221), (350, 18251), (365, 18302), (367, 18311), (373, 18326), (374, 18329), (401, 18440), (402, 18443), (403, 18452), (404, 18458), (410, 18473), (411, 18476), (419, 18497), (428, 18527), (432, 18539), (440, 18572), (462, 18683), (463, 18686), (469, 18713), (471, 18719), (483, 18773), (484, 18776), (511, 18863), (514, 18878), (516, 18890), (517, 18893), (528, 18959), (534, 18983), (537, 19004), (539, 19013), (552, 19073), (553, 19076), (562, 19112), (565, 19130), (571, 19142), (574, 19151), (579, 19178), (595, 19247), (598, 19265), (602, 19274), (604, 19286), (610, 19322), (615, 19352), (620, 19373), (626, 19397), (630, 19433), (635, 19487), (647, 19547), (652, 19589), (671, 19667), (681, 19724), (685, 19748), (692, 19802), (696, 19850), (703, 19892), (705, 19916), (706, 19919),

Gene: Stank_29 Start: 22790, Stop: 25186, Start Num: 126

Candidate Starts for Stank_29:

(Start: 126 @22790 has 125 MA's), (195, 22967), (206, 22988), (264, 23135), (288, 23276), (294, 23309), (302, 23342), (309, 23378), (350, 23471), (367, 23531), (374, 23549), (406, 23681), (422, 23726), (453, 23858), (462, 23903), (478, 23963), (510, 24077), (514, 24098), (522, 24137), (525, 24158), (527, 24173), (560, 24323), (562, 24329), (565, 24347), (580, 24401), (598, 24485), (618, 24578), (661, 24824), (696, 25040), (706, 25124), (712, 25157),

Gene: Stap_19 Start: 17430, Stop: 19967, Start Num: 81

Candidate Starts for Stap_19:

(Start: 81 @17430 has 221 MA's), (92, 17451), (Start: 104 @17472 has 1 MA's), (121, 17511), (154, 17580), (159, 17589), (160, 17592), (167, 17610), (178, 17643), (184, 17658), (202, 17706), (238, 17811), (240, 17817), (241, 17820), (255, 17862), (256, 17865), (277, 17967), (287, 18033), (295, 18078), (302, 18108), (303, 18114), (305, 18132), (316, 18156), (319, 18165), (335, 18198), (338, 18204), (350, 18234), (363, 18273), (365, 18285), (367, 18294), (373, 18309), (374, 18312), (401, 18423), (402, 18426), (403, 18435), (404, 18441), (410, 18456), (411, 18459), (419, 18480), (428, 18510), (432, 18522), (440, 18555), (462, 18666), (463, 18669), (469, 18696), (471, 18702), (483, 18756), (484, 18759), (514, 18861), (516, 18873), (517, 18876), (528, 18942), (534, 18966), (537, 18987), (539, 18996), (552, 19056), (553, 19059), (562, 19095), (565, 19113), (571, 19125), (574, 19134), (579, 19161), (595, 19230), (598, 19248), (602, 19257), (604, 19269), (610, 19305), (620, 19356), (624, 19374), (630, 19416), (635, 19470), (647, 19530), (652, 19572), (671, 19650), (681, 19707), (685, 19731), (692, 19785), (696, 19833), (705, 19899), (706, 19902),

Gene: Starcevich_19 Start: 17191, Stop: 19728, Start Num: 81

Candidate Starts for Starcevich_19:

(Start: 81 @17191 has 221 MA's), (92, 17212), (Start: 104 @17233 has 1 MA's), (121, 17272), (154, 17341), (159, 17350), (160, 17353), (167, 17371), (184, 17419), (238, 17572), (241, 17581), (256, 17626), (276, 17725), (277, 17728), (287, 17794), (302, 17869), (303, 17875), (305, 17893), (316, 17917), (318, 17923), (319, 17926), (335, 17959), (338, 17965), (350, 17995), (357, 18016), (365, 18046), (367, 18055), (373, 18070), (374, 18073), (401, 18184), (402, 18187), (403, 18196), (404, 18202), (410, 18217), (411, 18220), (419, 18241), (428, 18271), (432, 18283), (440, 18316), (462, 18427), (463, 18430), (469, 18457), (471, 18463), (483, 18517), (484, 18520), (514, 18622), (516, 18634), (517, 18637), (528, 18703), (534, 18727), (537, 18748), (539, 18757), (552, 18817), (553, 18820), (562, 18856), (565, 18874), (571, 18886), (574, 18895), (579, 18922), (594, 18979), (595, 18991), (598, 19009), (602, 19018), (604, 19030), (610, 19066), (615, 19096), (618, 19105), (620, 19117), (630, 19177), (635, 19231), (647, 19291), (652, 19333), (681, 19468), (685, 19492), (692, 19546), (696, 19594), (703, 19636), (705, 19660), (706, 19663),

Gene: Stargaze_22 Start: 20828, Stop: 23284, Start Num: 90

Candidate Starts for Stargaze_22:

(Start: 90 @20828 has 8 MA's), (143, 20972), (178, 21056), (188, 21086), (207, 21131), (264, 21290), (285, 21407), (353, 21629), (368, 21680), (373, 21695), (400, 21797), (418, 21863), (442, 21947), (462, 22061), (483, 22151), (486, 22166), (488, 22172), (492, 22181), (501, 22220), (508, 22247), (511, 22259), (525, 22334), (545, 22430), (547, 22442), (554, 22481), (588, 22616), (598, 22649), (602, 22658), (608, 22685), (624, 22784), (632, 22862), (642, 22922), (673, 23078), (693, 23222), (696, 23264),

Gene: Stark_27 Start: 22042, Stop: 24438, Start Num: 126

Candidate Starts for Stark_27:

(Start: 126 @22042 has 125 MA's), (195, 22219), (206, 22240), (264, 22387), (294, 22561), (302, 22594), (309, 22630), (350, 22723), (367, 22783), (374, 22801), (406, 22933), (422, 22978), (453, 23110), (462, 23155), (478, 23215), (510, 23329), (514, 23350), (522, 23389), (525, 23410), (527,

23425), (560, 23575), (562, 23581), (565, 23599), (580, 23653), (598, 23737), (618, 23830), (661, 24076), (696, 24292), (706, 24376), (712, 24409),

Gene: StellaBean_26 Start: 22283, Stop: 24679, Start Num: 126

Candidate Starts for StellaBean_26:

(Start: 126 @22283 has 125 MA's), (195, 22460), (206, 22481), (264, 22628), (288, 22769), (294, 22802), (302, 22835), (309, 22871), (350, 22964), (367, 23024), (374, 23042), (406, 23174), (422, 23219), (453, 23351), (462, 23396), (478, 23456), (510, 23570), (514, 23591), (522, 23630), (525, 23651), (527, 23666), (560, 23816), (562, 23822), (565, 23840), (580, 23894), (598, 23978), (618, 24071), (661, 24317), (696, 24533), (706, 24617), (712, 24650),

Gene: Stinson_28 Start: 21121, Stop: 23553, Start Num: 134

Candidate Starts for Stinson_28:

(Start: 134 @21121 has 92 MA's), (136, 21130), (174, 21220), (263, 21481), (267, 21502), (305, 21709), (318, 21742), (323, 21772), (347, 21844), (352, 21868), (365, 21913), (401, 22066), (416, 22123), (420, 22132), (430, 22168), (433, 22183), (467, 22363), (472, 22378), (487, 22447), (492, 22459), (508, 22522), (517, 22564), (525, 22603), (526, 22609), (527, 22618), (532, 22639), (544, 22699), (554, 22747), (571, 22807), (574, 22816), (583, 22873), (601, 22930), (603, 22939), (608, 22960), (613, 23005), (623, 23053), (635, 23149), (679, 23377), (696, 23524),

Gene: StolenFromERC_28 Start: 22274, Stop: 24670, Start Num: 126

Candidate Starts for StolenFromERC_28:

(Start: 126 @22274 has 125 MA's), (195, 22451), (206, 22472), (264, 22619), (294, 22793), (302, 22826), (309, 22862), (350, 22955), (367, 23015), (374, 23033), (406, 23165), (422, 23210), (453, 23342), (462, 23387), (478, 23447), (510, 23561), (514, 23582), (522, 23621), (525, 23642), (527, 23657), (560, 23807), (562, 23813), (565, 23831), (580, 23885), (598, 23969), (618, 24062), (661, 24308), (696, 24524), (706, 24608), (712, 24641),

Gene: StormChicken_26 Start: 22458, Stop: 24854, Start Num: 126

Candidate Starts for StormChicken_26:

(Start: 126 @22458 has 125 MA's), (195, 22635), (206, 22656), (264, 22803), (288, 22944), (294, 22977), (302, 23010), (309, 23046), (350, 23139), (367, 23199), (374, 23217), (406, 23349), (422, 23394), (453, 23526), (462, 23571), (478, 23631), (510, 23745), (514, 23766), (522, 23805), (525, 23826), (527, 23841), (560, 23991), (562, 23997), (565, 24015), (580, 24069), (598, 24153), (618, 24246), (661, 24492), (696, 24708), (706, 24792), (712, 24825),

Gene: Strokeseat_18 Start: 17495, Stop: 20032, Start Num: 81

Candidate Starts for Strokeseat_18:

(Start: 81 @17495 has 221 MA's), (92, 17516), (Start: 104 @17537 has 1 MA's), (121, 17576), (154, 17645), (159, 17654), (160, 17657), (167, 17675), (184, 17723), (240, 17882), (241, 17885), (255, 17927), (256, 17930), (273, 18008), (276, 18029), (277, 18032), (287, 18098), (302, 18173), (303, 18179), (316, 18221), (318, 18227), (319, 18230), (335, 18263), (338, 18269), (350, 18299), (357, 18320), (365, 18350), (367, 18359), (397, 18467), (400, 18479), (401, 18488), (402, 18491), (403, 18500), (404, 18506), (410, 18521), (411, 18524), (419, 18545), (432, 18587), (440, 18620), (469, 18761), (471, 18767), (483, 18821), (484, 18824), (495, 18851), (514, 18926), (516, 18938), (517, 18941), (528, 19007), (534, 19031), (537, 19052), (539, 19061), (552, 19121), (553, 19124), (562, 19160), (565, 19178), (574, 19199), (579, 19226), (595, 19295), (598, 19313), (602, 19322), (604, 19334), (610, 19370), (615, 19400), (630, 19481), (647, 19595), (652, 19637), (681, 19772), (685, 19796), (692, 19850), (705, 19964), (706, 19967),

Gene: Sulley_27 Start: 20845, Stop: 23277, Start Num: 134

Candidate Starts for Sulley_27:

(Start: 134 @20845 has 92 MA's), (174, 20944), (263, 21205), (267, 21226), (305, 21433), (318, 21466), (323, 21496), (347, 21568), (352, 21592), (401, 21790), (412, 21835), (416, 21847), (420, 21856), (433, 21907), (467, 22087), (472, 22102), (487, 22171), (492, 22183), (508, 22246), (517, 22288), (525, 22327), (526, 22333), (527, 22342), (532, 22363), (544, 22423), (552, 22456), (554, 22471), (555, 22474), (569, 22528), (574, 22540), (601, 22654), (603, 22663), (608, 22684), (619, 22756), (623, 22777), (635, 22873), (679, 23101), (696, 23248),

Gene: SuperGrey_19 Start: 18074, Stop: 20611, Start Num: 81

Candidate Starts for SuperGrey_19:

(Start: 81 @18074 has 221 MA's), (92, 18095), (Start: 104 @18116 has 1 MA's), (121, 18155), (154, 18224), (159, 18233), (160, 18236), (167, 18254), (184, 18302), (240, 18461), (241, 18464), (256, 18509), (276, 18608), (277, 18611), (287, 18677), (302, 18752), (303, 18758), (305, 18776), (316, 18800), (318, 18806), (319, 18809), (335, 18842), (338, 18848), (350, 18878), (357, 18899), (365, 18929), (367, 18938), (373, 18953), (374, 18956), (401, 19067), (402, 19070), (403, 19079), (404, 19085), (410, 19100), (411, 19103), (419, 19124), (428, 19154), (432, 19166), (440, 19199), (462, 19310), (463, 19313), (469, 19340), (471, 19346), (483, 19400), (484, 19403), (511, 19490), (514, 19505), (516, 19517), (517, 19520), (528, 19586), (534, 19610), (537, 19631), (539, 19640), (552, 19700), (553, 19703), (562, 19739), (565, 19757), (571, 19769), (574, 19778), (579, 19805), (594, 19862), (595, 19874), (598, 19892), (602, 19901), (604, 19913), (610, 19949), (615, 19979), (618, 19988), (620, 20000), (630, 20060), (635, 20114), (647, 20174), (652, 20216), (671, 20294), (681, 20351), (685, 20375), (692, 20429), (696, 20477), (703, 20519), (705, 20543), (706, 20546),

Gene: Superphikiman_36 Start: 27736, Stop: 30243, Start Num: 81

Candidate Starts for Superphikiman_36:

(Start: 81 @27736 has 221 MA's), (167, 27931), (178, 27967), (184, 27982), (224, 28069), (229, 28084), (256, 28159), (260, 28171), (267, 28198), (285, 28303), (292, 28342), (295, 28351), (302, 28375), (303, 28381), (305, 28399), (312, 28417), (319, 28432), (322, 28441), (326, 28450), (335, 28465), (346, 28492), (350, 28501), (363, 28540), (365, 28552), (367, 28561), (391, 28645), (411, 28726), (422, 28756), (423, 28759), (432, 28789), (439, 28816), (441, 28825), (450, 28876), (451, 28885), (453, 28888), (461, 28924), (465, 28945), (474, 28981), (515, 29134), (525, 29188), (534, 29233), (536, 29251), (537, 29254), (545, 29293), (578, 29440), (580, 29449), (596, 29518), (598, 29533), (630, 29698), (639, 29785), (649, 29833), (661, 29884), (677, 29962), (707, 30184), (709, 30187), (712, 30214),

Gene: SwagPiggett_18 Start: 17406, Stop: 19943, Start Num: 81

Candidate Starts for SwagPiggett_18:

(Start: 81 @17406 has 221 MA's), (92, 17427), (Start: 104 @17448 has 1 MA's), (121, 17487), (154, 17556), (159, 17565), (160, 17568), (167, 17586), (184, 17634), (238, 17787), (241, 17796), (256, 17841), (273, 17919), (277, 17943), (287, 18009), (295, 18054), (302, 18084), (303, 18090), (305, 18108), (316, 18132), (319, 18141), (335, 18174), (338, 18180), (350, 18210), (363, 18249), (367, 18270), (373, 18285), (374, 18288), (402, 18402), (403, 18411), (404, 18417), (411, 18435), (419, 18456), (428, 18486), (432, 18498), (440, 18531), (462, 18642), (463, 18645), (469, 18672), (471, 18678), (483, 18732), (484, 18735), (511, 18822), (514, 18837), (517, 18852), (534, 18942), (537, 18963), (539, 18972), (552, 19032), (553, 19035), (562, 19071), (565, 19089), (571, 19101), (574, 19110), (579, 19137), (595, 19206), (598, 19224), (602, 19233), (604, 19245), (610, 19281), (615, 19311), (620, 19332), (626, 19356), (630, 19392), (635, 19446), (652, 19548), (671, 19626), (681, 19683), (685, 19707), (692, 19761), (696, 19809), (703, 19851), (708, 19884), (709, 19887),

Gene: TBrady12_28 Start: 22274, Stop: 24670, Start Num: 126

Candidate Starts for TBrady12_28:

(Start: 126 @22274 has 125 MA's), (195, 22451), (206, 22472), (264, 22619), (288, 22760), (294, 22793), (302, 22826), (309, 22862), (350, 22955), (367, 23015), (374, 23033), (406, 23165), (422, 23210), (453, 23342), (462, 23387), (478, 23447), (510, 23561), (514, 23582), (522, 23621), (525,

23642), (527, 23657), (560, 23807), (562, 23813), (565, 23831), (580, 23885), (598, 23969), (618, 24062), (661, 24308), (696, 24524), (706, 24608), (712, 24641),

Gene: TDanisky_18 Start: 17429, Stop: 19966, Start Num: 81

Candidate Starts for TDanisky_18:

(Start: 81 @17429 has 221 MA's), (92, 17450), (Start: 104 @17471 has 1 MA's), (121, 17510), (154, 17579), (159, 17588), (160, 17591), (167, 17609), (184, 17657), (238, 17810), (241, 17819), (256, 17864), (273, 17942), (277, 17966), (287, 18032), (295, 18077), (302, 18107), (303, 18113), (305, 18131), (316, 18155), (319, 18164), (335, 18197), (338, 18203), (350, 18233), (363, 18272), (367, 18293), (373, 18308), (374, 18311), (402, 18425), (403, 18434), (404, 18440), (411, 18458), (419, 18479), (428, 18509), (432, 18521), (440, 18554), (462, 18665), (463, 18668), (469, 18695), (471, 18701), (483, 18755), (484, 18758), (511, 18845), (514, 18860), (517, 18875), (534, 18965), (537, 18986), (539, 18995), (552, 19055), (553, 19058), (562, 19094), (565, 19112), (571, 19124), (574, 19133), (579, 19160), (595, 19229), (598, 19247), (602, 19256), (604, 19268), (610, 19304), (615, 19334), (620, 19355), (626, 19379), (630, 19415), (635, 19469), (652, 19571), (671, 19649), (681, 19706), (685, 19730), (692, 19784), (696, 19832), (703, 19874), (708, 19907), (709, 19910),

Gene: Tachez_27 Start: 20841, Stop: 23273, Start Num: 134

Candidate Starts for Tachez_27:

(Start: 134 @20841 has 92 MA's), (174, 20940), (263, 21201), (267, 21222), (305, 21429), (318, 21462), (323, 21492), (347, 21564), (352, 21588), (365, 21633), (401, 21786), (412, 21831), (416, 21843), (420, 21852), (433, 21903), (467, 22083), (472, 22098), (487, 22167), (492, 22179), (517, 22284), (525, 22323), (526, 22329), (527, 22338), (544, 22419), (554, 22467), (575, 22542), (581, 22578), (601, 22650), (603, 22659), (608, 22680), (623, 22773), (635, 22869), (665, 23016), (673, 23058), (679, 23097), (689, 23172),

Gene: TaiwanKao_28 Start: 20852, Stop: 23284, Start Num: 134

Candidate Starts for TaiwanKao_28:

(Start: 134 @20852 has 92 MA's), (174, 20951), (263, 21212), (305, 21440), (318, 21473), (323, 21503), (352, 21599), (365, 21644), (401, 21797), (412, 21842), (416, 21854), (420, 21863), (433, 21914), (467, 22094), (472, 22109), (487, 22178), (492, 22190), (508, 22253), (517, 22295), (525, 22334), (526, 22340), (527, 22349), (532, 22370), (544, 22430), (574, 22547), (581, 22589), (601, 22661), (603, 22670), (608, 22691), (619, 22763), (623, 22784), (635, 22880), (679, 23108), (696, 23255),

Gene: Taj_18 Start: 17430, Stop: 19967, Start Num: 81

Candidate Starts for Taj_18:

(76, 17418), (Start: 81 @17430 has 221 MA's), (92, 17451), (Start: 104 @17472 has 1 MA's), (121, 17511), (154, 17580), (159, 17589), (160, 17592), (167, 17610), (178, 17643), (184, 17658), (202, 17706), (238, 17811), (240, 17817), (241, 17820), (255, 17862), (256, 17865), (273, 17943), (287, 18033), (295, 18078), (302, 18108), (303, 18114), (305, 18132), (316, 18156), (319, 18165), (335, 18198), (338, 18204), (350, 18234), (363, 18273), (365, 18285), (367, 18294), (373, 18309), (374, 18312), (401, 18423), (402, 18426), (403, 18435), (404, 18441), (410, 18456), (411, 18459), (419, 18480), (428, 18510), (432, 18522), (440, 18555), (462, 18666), (463, 18669), (469, 18696), (471, 18702), (483, 18756), (484, 18759), (511, 18846), (514, 18861), (516, 18873), (517, 18876), (528, 18942), (534, 18966), (537, 18987), (539, 18996), (552, 19056), (553, 19059), (562, 19095), (565, 19113), (571, 19125), (574, 19134), (579, 19161), (595, 19230), (598, 19248), (602, 19257), (604, 19269), (610, 19305), (615, 19335), (620, 19356), (626, 19380), (630, 19416), (635, 19470), (647, 19530), (652, 19572), (681, 19707), (685, 19731), (692, 19785), (696, 19833), (703, 19875), (705, 19899), (706, 19902),

Gene: Tarkin_28 Start: 23273, Stop: 25669, Start Num: 126

Candidate Starts for Tarkin_28:

(Start: 126 @23273 has 125 MA's), (195, 23450), (206, 23471), (264, 23618), (288, 23759), (294, 23792), (302, 23825), (309, 23861), (350, 23954), (367, 24014), (374, 24032), (406, 24164), (422, 24209), (453, 24341), (462, 24386), (478, 24446), (510, 24560), (514, 24581), (522, 24620), (525, 24641), (527, 24656), (560, 24806), (562, 24812), (565, 24830), (580, 24884), (598, 24968), (618, 25061), (661, 25307), (696, 25523), (706, 25607), (712, 25640),

Gene: Tchotchke_19 Start: 17331, Stop: 19868, Start Num: 81

Candidate Starts for Tchotchke_19:

(Start: 81 @17331 has 221 MA's), (92, 17352), (Start: 104 @17373 has 1 MA's), (121, 17412), (154, 17481), (159, 17490), (160, 17493), (167, 17511), (184, 17559), (238, 17712), (241, 17721), (256, 17766), (276, 17865), (277, 17868), (287, 17934), (302, 18009), (303, 18015), (305, 18033), (316, 18057), (318, 18063), (319, 18066), (335, 18099), (338, 18105), (350, 18135), (357, 18156), (365, 18186), (367, 18195), (373, 18210), (374, 18213), (401, 18324), (402, 18327), (403, 18336), (404, 18342), (410, 18357), (411, 18360), (419, 18381), (428, 18411), (432, 18423), (440, 18456), (462, 18567), (463, 18570), (469, 18597), (471, 18603), (483, 18657), (484, 18660), (514, 18762), (516, 18774), (517, 18777), (528, 18843), (534, 18867), (537, 18888), (539, 18897), (552, 18957), (553, 18960), (562, 18996), (565, 19014), (571, 19026), (574, 19035), (579, 19062), (594, 19119), (595, 19131), (598, 19149), (602, 19158), (604, 19170), (610, 19206), (615, 19236), (618, 19245), (620, 19257), (630, 19317), (635, 19371), (647, 19431), (652, 19473), (681, 19608), (685, 19632), (692, 19686), (696, 19734), (703, 19776), (705, 19800), (706, 19803),

Gene: TeardropMSU_25 Start: 22191, Stop: 24587, Start Num: 126

Candidate Starts for TeardropMSU_25:

(Start: 126 @22191 has 125 MA's), (195, 22368), (206, 22389), (264, 22536), (288, 22677), (294, 22710), (302, 22743), (309, 22779), (350, 22872), (367, 22932), (374, 22950), (396, 23031), (453, 23259), (462, 23304), (514, 23499), (515, 23505), (517, 23514), (525, 23559), (527, 23574), (562, 23730), (565, 23748), (568, 23757), (581, 23811), (598, 23886), (599, 23889), (634, 24099), (636, 24111), (661, 24225), (696, 24441), (706, 24525), (710, 24549), (712, 24558),

Gene: Teaspoon_27 Start: 22237, Stop: 24633, Start Num: 126

Candidate Starts for Teaspoon_27:

(Start: 126 @22237 has 125 MA's), (195, 22414), (206, 22435), (264, 22582), (288, 22723), (294, 22756), (302, 22789), (309, 22825), (350, 22918), (367, 22978), (374, 22996), (406, 23128), (422, 23173), (453, 23305), (462, 23350), (478, 23410), (510, 23524), (514, 23545), (522, 23584), (525, 23605), (527, 23620), (560, 23770), (562, 23776), (565, 23794), (580, 23848), (598, 23932), (618, 24025), (661, 24271), (696, 24487), (706, 24571), (712, 24604),

Gene: TelAviv_55 Start: 36063, Stop: 38573, Start Num: 96

Candidate Starts for TelAviv_55:

(Start: 96 @36063 has 28 MA's), (108, 36096), (136, 36165), (137, 36168), (147, 36192), (160, 36216), (170, 36240), (178, 36273), (245, 36480), (248, 36492), (249, 36495), (281, 36642), (282, 36672), (287, 36696), (295, 36726), (296, 36729), (302, 36756), (305, 36780), (318, 36810), (344, 36867), (351, 36891), (363, 36927), (365, 36939), (373, 36963), (374, 36966), (382, 37008), (410, 37104), (411, 37107), (475, 37362), (514, 37506), (525, 37566), (536, 37638), (537, 37641), (558, 37737), (598, 37911), (604, 37932), (622, 38025), (625, 38037), (635, 38127), (650, 38202), (670, 38247), (699, 38448), (704, 38502), (709, 38517),

Gene: Terminus_26 Start: 22371, Stop: 24767, Start Num: 126

Candidate Starts for Terminus_26:

(Start: 126 @22371 has 125 MA's), (195, 22548), (206, 22569), (264, 22716), (288, 22857), (294, 22890), (302, 22923), (309, 22959), (350, 23052), (367, 23112), (374, 23130), (406, 23262), (422, 23307), (453, 23439), (462, 23484), (478, 23544), (510, 23658), (514, 23679), (522, 23718), (525, 23739), (527, 23754), (560, 23904), (562, 23910), (565, 23928), (580, 23982), (598, 24066), (618,

24159), (661, 24405), (696, 24621), (706, 24705), (712, 24738),

Gene: ThetaBob_20 Start: 17751, Stop: 20231, Start Num: 85

Candidate Starts for ThetaBob_20:

(Start: 85 @17751 has 3 MA's), (89, 17757), (92, 17763), (Start: 126 @17826 has 125 MA's), (127, 17829), (138, 17856), (164, 17910), (167, 17919), (178, 17952), (189, 17985), (202, 18018), (224, 18057), (229, 18072), (241, 18108), (242, 18114), (243, 18117), (254, 18135), (256, 18147), (260, 18159), (266, 18183), (267, 18186), (292, 18330), (295, 18339), (302, 18363), (305, 18387), (316, 18411), (318, 18417), (326, 18438), (328, 18441), (338, 18459), (350, 18489), (359, 18519), (365, 18540), (391, 18633), (396, 18648), (397, 18657), (401, 18678), (402, 18681), (415, 18723), (428, 18765), (429, 18768), (432, 18777), (439, 18804), (441, 18813), (447, 18852), (451, 18873), (453, 18876), (461, 18912), (465, 18933), (483, 19011), (484, 19014), (504, 19068), (516, 19128), (534, 19221), (537, 19242), (545, 19278), (557, 19332), (560, 19341), (578, 19419), (581, 19437), (589, 19473), (591, 19476), (595, 19494), (596, 19497), (598, 19512), (604, 19533), (610, 19569), (612, 19581), (626, 19644), (630, 19677), (639, 19764), (649, 19812), (651, 19836), (657, 19863), (661, 19872), (670, 19911), (677, 19950), (681, 19974), (684, 19995), (696, 20091), (700, 20112), (709, 20175), (712, 20202), (713, 20211),

Gene: Thimble_26 Start: 21237, Stop: 23633, Start Num: 126

Candidate Starts for Thimble_26:

(Start: 126 @21237 has 125 MA's), (195, 21414), (206, 21435), (264, 21582), (288, 21723), (294, 21756), (302, 21789), (309, 21825), (350, 21918), (367, 21978), (374, 21996), (406, 22128), (422, 22173), (453, 22305), (462, 22350), (478, 22410), (510, 22524), (514, 22545), (522, 22584), (525, 22605), (527, 22620), (560, 22770), (562, 22776), (565, 22794), (580, 22848), (598, 22932), (618, 23025), (661, 23271), (696, 23487), (706, 23571), (712, 23604),

Gene: Thoth_30 Start: 24313, Stop: 26583, Start Num: 39

Candidate Starts for Thoth_30:

(Start: 39 @24313 has 22 MA's), (59, 24448), (61, 24457), (102, 24631), (105, 24637), (108, 24649), (167, 24802), (173, 24817), (177, 24832), (277, 25213), (279, 25219), (284, 25264), (301, 25351), (370, 25552), (372, 25558), (382, 25606), (394, 25636), (400, 25660), (449, 25849), (456, 25876), (465, 25924), (482, 25996), (497, 26035), (503, 26056), (506, 26071), (511, 26089), (517, 26119), (536, 26203), (590, 26404), (600, 26446), (627, 26572),

Gene: Thresher_27 Start: 23038, Stop: 25434, Start Num: 126

Candidate Starts for Thresher_27:

(Start: 126 @23038 has 125 MA's), (195, 23215), (206, 23236), (264, 23383), (294, 23557), (302, 23590), (309, 23626), (350, 23719), (367, 23779), (374, 23797), (406, 23929), (422, 23974), (453, 24106), (462, 24151), (510, 24325), (514, 24346), (522, 24385), (525, 24406), (527, 24421), (560, 24571), (562, 24577), (565, 24595), (580, 24649), (598, 24733), (618, 24826), (661, 25072), (696, 25288), (706, 25372), (712, 25405),

Gene: Thumb_29 Start: 25682, Stop: 28525, Start Num: 35

Candidate Starts for Thumb_29:

(Start: 35 @25682 has 8 MA's), (56, 25814), (58, 25826), (60, 25835), (69, 25904), (98, 25970), (107, 25991), (125, 26039), (139, 26081), (155, 26105), (168, 26138), (180, 26174), (185, 26186), (223, 26279), (241, 26336), (251, 26375), (288, 26570), (293, 26600), (303, 26642), (354, 26783), (363, 26801), (382, 26882), (396, 26921), (400, 26942), (440, 27080), (446, 27119), (484, 27284), (507, 27356), (516, 27398), (519, 27410), (537, 27509), (616, 27872), (658, 28142), (669, 28175), (672, 28199), (691, 28319), (701, 28397), (712, 28484), (714, 28499), (715, 28505),

Gene: TiniBug_27 Start: 20837, Stop: 23269, Start Num: 134

Candidate Starts for TiniBug_27:

(127, 20819), (Start: 134 @20837 has 92 MA's), (154, 20885), (174, 20936), (263, 21197), (267, 21218), (317, 21455), (318, 21458), (323, 21488), (324, 21491), (347, 21560), (352, 21584), (353, 21590), (357, 21596), (365, 21629), (401, 21782), (416, 21839), (420, 21848), (433, 21899), (467, 22079), (472, 22094), (487, 22163), (492, 22175), (501, 22211), (508, 22238), (517, 22280), (525, 22319), (526, 22325), (527, 22334), (532, 22355), (544, 22415), (552, 22448), (555, 22466), (574, 22532), (581, 22574), (601, 22646), (603, 22655), (608, 22676), (619, 22748), (665, 23012), (679, 23093), (689, 23168), (696, 23240),

Gene: Tiri_27 Start: 20884, Stop: 23316, Start Num: 134

Candidate Starts for Tiri_27:

(Start: 134 @20884 has 92 MA's), (174, 20983), (263, 21244), (267, 21265), (305, 21472), (318, 21505), (323, 21535), (347, 21607), (352, 21631), (401, 21829), (412, 21874), (416, 21886), (420, 21895), (433, 21946), (467, 22126), (472, 22141), (487, 22210), (492, 22222), (508, 22285), (517, 22327), (525, 22366), (526, 22372), (527, 22381), (532, 22402), (544, 22462), (574, 22579), (581, 22621), (601, 22693), (603, 22702), (608, 22723), (619, 22795), (623, 22816), (635, 22912), (647, 22975), (673, 23101), (679, 23140), (696, 23287),

Gene: Tomaszewski_25 Start: 21884, Stop: 24280, Start Num: 126

Candidate Starts for Tomaszewski_25:

(Start: 126 @21884 has 125 MA's), (195, 22061), (206, 22082), (264, 22229), (288, 22370), (294, 22403), (302, 22436), (309, 22472), (350, 22565), (367, 22625), (374, 22643), (406, 22775), (422, 22820), (453, 22952), (462, 22997), (510, 23171), (514, 23192), (522, 23231), (525, 23252), (527, 23267), (562, 23423), (565, 23441), (580, 23495), (598, 23579), (618, 23672), (661, 23918), (696, 24134), (706, 24218), (712, 24251),

Gene: TootsiePop_19 Start: 17273, Stop: 19798, Start Num: 81

Candidate Starts for TootsiePop_19:

(Start: 81 @17273 has 221 MA's), (92, 17294), (Start: 104 @17315 has 1 MA's), (121, 17354), (154, 17423), (159, 17432), (160, 17435), (167, 17453), (178, 17486), (184, 17501), (202, 17549), (240, 17660), (241, 17663), (256, 17708), (273, 17786), (277, 17810), (287, 17876), (295, 17921), (302, 17951), (303, 17957), (305, 17975), (316, 17999), (319, 18008), (335, 18041), (338, 18047), (350, 18077), (363, 18116), (365, 18128), (367, 18137), (373, 18152), (374, 18155), (411, 18302), (428, 18353), (452, 18464), (463, 18515), (468, 18539), (495, 18632), (507, 18677), (510, 18686), (514, 18707), (516, 18719), (517, 18722), (525, 18767), (534, 18812), (536, 18830), (537, 18833), (547, 18884), (560, 18935), (562, 18941), (565, 18959), (571, 18971), (574, 18980), (580, 19013), (598, 19094), (612, 19163), (618, 19190), (623, 19217), (631, 19268), (635, 19316), (684, 19559), (696, 19664), (700, 19685), (708, 19739), (711, 19763),

Gene: Tootsieroll_19 Start: 17239, Stop: 19776, Start Num: 81

Candidate Starts for Tootsieroll_19:

(76, 17227), (Start: 81 @17239 has 221 MA's), (92, 17260), (Start: 104 @17281 has 1 MA's), (121, 17320), (154, 17389), (159, 17398), (160, 17401), (167, 17419), (178, 17452), (184, 17467), (202, 17515), (238, 17620), (240, 17626), (241, 17629), (255, 17671), (256, 17674), (277, 17776), (287, 17842), (295, 17887), (302, 17917), (303, 17923), (305, 17941), (316, 17965), (319, 17974), (335, 18007), (338, 18013), (350, 18043), (365, 18094), (367, 18103), (397, 18211), (400, 18223), (401, 18232), (402, 18235), (404, 18250), (410, 18265), (411, 18268), (419, 18289), (428, 18319), (432, 18331), (440, 18364), (462, 18475), (463, 18478), (469, 18505), (471, 18511), (483, 18565), (484, 18568), (495, 18595), (514, 18670), (516, 18682), (517, 18685), (528, 18751), (533, 18772), (534, 18775), (537, 18796), (539, 18805), (552, 18865), (553, 18868), (560, 18898), (565, 18922), (571, 18934), (574, 18943), (595, 19039), (598, 19057), (602, 19066), (604, 19078), (615, 19144), (618, 19153), (620, 19165), (626, 19189), (630, 19225), (652, 19381), (681, 19516), (685, 19540), (692, 19594), (700, 19663), (705, 19708), (706, 19711),

Gene: Topper_27 Start: 20912, Stop: 23344, Start Num: 134

Candidate Starts for Topper_27:

(Start: 134 @20912 has 92 MA's), (174, 21011), (263, 21272), (267, 21293), (305, 21500), (318, 21533), (323, 21563), (347, 21635), (352, 21659), (401, 21857), (412, 21902), (416, 21914), (420, 21923), (433, 21974), (467, 22154), (472, 22169), (487, 22238), (492, 22250), (508, 22313), (517, 22355), (525, 22394), (526, 22400), (527, 22409), (532, 22430), (544, 22490), (574, 22607), (581, 22649), (601, 22721), (603, 22730), (608, 22751), (619, 22823), (623, 22844), (635, 22940), (665, 23087), (679, 23168), (696, 23315),

Gene: Toron_20 Start: 17872, Stop: 20292, Start Num: 150

Candidate Starts for Toron_20:

(150, 17872), (153, 17878), (157, 17884), (181, 17947), (190, 17971), (191, 17974), (214, 18037), (247, 18145), (250, 18154), (256, 18175), (258, 18184), (276, 18274), (282, 18319), (292, 18379), (319, 18475), (345, 18532), (355, 18556), (370, 18604), (373, 18613), (374, 18616), (385, 18664), (397, 18706), (402, 18730), (403, 18739), (404, 18745), (411, 18763), (419, 18784), (423, 18796), (428, 18814), (432, 18826), (440, 18859), (451, 18922), (453, 18925), (457, 18940), (460, 18952), (483, 19060), (489, 19084), (501, 19111), (504, 19117), (514, 19165), (519, 19189), (525, 19225), (526, 19231), (527, 19240), (547, 19354), (548, 19369), (571, 19447), (596, 19558), (598, 19573), (602, 19582), (618, 19669), (626, 19705), (630, 19741), (635, 19795), (681, 20032), (685, 20056), (700, 20179), (705, 20224), (711, 20257),

Gene: Totinger_19 Start: 17189, Stop: 19726, Start Num: 81

Candidate Starts for Totinger_19:

(Start: 81 @17189 has 221 MA's), (92, 17210), (Start: 104 @17231 has 1 MA's), (121, 17270), (154, 17339), (159, 17348), (160, 17351), (167, 17369), (184, 17417), (238, 17570), (241, 17579), (256, 17624), (276, 17723), (277, 17726), (287, 17792), (302, 17867), (303, 17873), (305, 17891), (316, 17915), (318, 17921), (319, 17924), (335, 17957), (338, 17963), (350, 17993), (357, 18014), (365, 18044), (367, 18053), (373, 18068), (374, 18071), (401, 18182), (402, 18185), (403, 18194), (404, 18200), (410, 18215), (411, 18218), (419, 18239), (428, 18269), (432, 18281), (440, 18314), (462, 18425), (463, 18428), (469, 18455), (471, 18461), (483, 18515), (484, 18518), (514, 18620), (516, 18632), (517, 18635), (528, 18701), (534, 18725), (537, 18746), (539, 18755), (552, 18815), (553, 18818), (562, 18854), (565, 18872), (571, 18884), (574, 18893), (579, 18920), (594, 18977), (595, 18989), (598, 19007), (602, 19016), (604, 19028), (610, 19064), (615, 19094), (618, 19103), (620, 19115), (630, 19175), (635, 19229), (647, 19289), (652, 19331), (681, 19466), (685, 19490), (692, 19544), (696, 19592), (703, 19634), (705, 19658), (706, 19661),

Gene: Toto_26 Start: 22284, Stop: 24680, Start Num: 126

Candidate Starts for Toto_26:

(Start: 126 @22284 has 125 MA's), (195, 22461), (206, 22482), (264, 22629), (288, 22770), (294, 22803), (302, 22836), (309, 22872), (350, 22965), (367, 23025), (374, 23043), (415, 23199), (422, 23220), (450, 23340), (453, 23352), (462, 23397), (514, 23592), (517, 23607), (525, 23652), (527, 23667), (562, 23823), (565, 23841), (568, 23850), (598, 23979), (599, 23982), (634, 24192), (636, 24204), (661, 24318), (696, 24534), (706, 24618), (710, 24642), (712, 24651),

Gene: Traaww1_24 Start: 21929, Stop: 24325, Start Num: 126

Candidate Starts for Traaww1_24:

(Start: 126 @21929 has 125 MA's), (195, 22106), (206, 22127), (264, 22274), (288, 22415), (294, 22448), (302, 22481), (309, 22517), (350, 22610), (367, 22670), (374, 22688), (396, 22769), (453, 22997), (462, 23042), (514, 23237), (515, 23243), (517, 23252), (525, 23297), (527, 23312), (562, 23468), (565, 23486), (568, 23495), (581, 23549), (598, 23624), (599, 23627), (634, 23837), (636, 23849), (661, 23963), (696, 24179), (706, 24263), (710, 24287), (712, 24296),

Gene: TreyKay_27 Start: 20846, Stop: 23278, Start Num: 134

Candidate Starts for TreyKay_27:

(Start: 134 @20846 has 92 MA's), (174, 20945), (263, 21206), (305, 21434), (318, 21467), (323, 21497), (347, 21569), (352, 21593), (365, 21638), (401, 21791), (412, 21836), (416, 21848), (420, 21857), (430, 21893), (433, 21908), (467, 22088), (472, 22103), (487, 22172), (492, 22184), (508, 22247), (517, 22289), (525, 22328), (526, 22334), (527, 22343), (532, 22364), (544, 22424), (574, 22541), (581, 22583), (601, 22655), (603, 22664), (608, 22685), (619, 22757), (623, 22778), (635, 22874), (679, 23102), (696, 23249),

Gene: Troll4_30 Start: 24317, Stop: 26587, Start Num: 39

Candidate Starts for Troll4_30:

(Start: 39 @24317 has 22 MA's), (59, 24452), (61, 24461), (102, 24635), (105, 24641), (108, 24653), (167, 24806), (173, 24821), (177, 24836), (277, 25217), (279, 25223), (284, 25268), (301, 25355), (370, 25556), (372, 25562), (382, 25610), (394, 25640), (400, 25664), (449, 25853), (456, 25880), (465, 25928), (482, 26000), (497, 26039), (503, 26060), (506, 26075), (511, 26093), (517, 26123), (536, 26207), (590, 26408), (600, 26450), (627, 26576),

Gene: TruffulaTree_27 Start: 20875, Stop: 23307, Start Num: 134

Candidate Starts for TruffulaTree_27:

(Start: 134 @20875 has 92 MA's), (174, 20974), (263, 21235), (267, 21256), (305, 21463), (318, 21496), (323, 21526), (347, 21598), (352, 21622), (365, 21667), (401, 21820), (412, 21865), (416, 21877), (420, 21886), (433, 21937), (467, 22117), (472, 22132), (487, 22201), (492, 22213), (508, 22276), (517, 22318), (525, 22357), (526, 22363), (527, 22372), (532, 22393), (544, 22453), (574, 22570), (581, 22612), (601, 22684), (603, 22693), (608, 22714), (619, 22786), (623, 22807), (635, 22903), (647, 22966), (679, 23131), (696, 23278),

Gene: Tuco_27 Start: 22799, Stop: 25195, Start Num: 126

Candidate Starts for Tuco_27:

(Start: 126 @22799 has 125 MA's), (195, 22976), (206, 22997), (264, 23144), (288, 23285), (294, 23318), (302, 23351), (309, 23387), (350, 23480), (367, 23540), (374, 23558), (396, 23639), (453, 23867), (462, 23912), (514, 24107), (515, 24113), (517, 24122), (525, 24167), (527, 24182), (562, 24338), (565, 24356), (568, 24365), (581, 24419), (598, 24494), (599, 24497), (634, 24707), (636, 24719), (661, 24833), (696, 25049), (706, 25133), (710, 25157), (712, 25166),

Gene: Tweety_18 Start: 17451, Stop: 19988, Start Num: 81

Candidate Starts for Tweety_18:

(76, 17439), (Start: 81 @17451 has 221 MA's), (92, 17472), (Start: 104 @17493 has 1 MA's), (121, 17532), (154, 17601), (159, 17610), (160, 17613), (167, 17631), (178, 17664), (184, 17679), (202, 17727), (240, 17838), (241, 17841), (252, 17871), (256, 17886), (273, 17964), (277, 17988), (287, 18054), (295, 18099), (302, 18129), (303, 18135), (305, 18153), (316, 18177), (319, 18186), (335, 18219), (338, 18225), (350, 18255), (363, 18294), (365, 18306), (367, 18315), (373, 18330), (374, 18333), (401, 18444), (402, 18447), (403, 18456), (404, 18462), (410, 18477), (411, 18480), (419, 18501), (428, 18531), (432, 18543), (440, 18576), (453, 18642), (462, 18687), (463, 18690), (469, 18717), (471, 18723), (483, 18777), (484, 18780), (511, 18867), (514, 18882), (516, 18894), (517, 18897), (528, 18963), (534, 18987), (537, 19008), (539, 19017), (547, 19059), (552, 19077), (553, 19080), (562, 19116), (565, 19134), (571, 19146), (574, 19155), (579, 19182), (595, 19251), (598, 19269), (602, 19278), (604, 19290), (610, 19326), (615, 19356), (620, 19377), (626, 19401), (630, 19437), (635, 19491), (647, 19551), (652, 19593), (681, 19728), (685, 19752), (692, 19806), (696, 19854), (703, 19896), (705, 19920), (706, 19923),

Gene: Twitch_27 Start: 20912, Stop: 23344, Start Num: 134

Candidate Starts for Twitch_27:

(Start: 134 @20912 has 92 MA's), (174, 21011), (263, 21272), (267, 21293), (305, 21500), (318, 21533), (323, 21563), (347, 21635), (352, 21659), (401, 21857), (412, 21902), (416, 21914), (420,

21923), (433, 21974), (467, 22154), (472, 22169), (487, 22238), (492, 22250), (508, 22313), (517, 22355), (525, 22394), (526, 22400), (527, 22409), (532, 22430), (544, 22490), (574, 22607), (581, 22649), (601, 22721), (603, 22730), (608, 22751), (619, 22823), (623, 22844), (635, 22940), (665, 23087), (679, 23168), (696, 23315),

Gene: Ukulele_26 Start: 22042, Stop: 24438, Start Num: 126

Candidate Starts for Ukulele_26:

(Start: 126 @22042 has 125 MA's), (195, 22219), (206, 22240), (264, 22387), (294, 22561), (302, 22594), (309, 22630), (350, 22723), (367, 22783), (374, 22801), (406, 22933), (422, 22978), (453, 23110), (462, 23155), (478, 23215), (510, 23329), (514, 23350), (522, 23389), (525, 23410), (527, 23425), (560, 23575), (562, 23581), (565, 23599), (580, 23653), (598, 23737), (618, 23830), (661, 24076), (696, 24292), (706, 24376), (712, 24409),

Gene: UncleRicky_19 Start: 17219, Stop: 19756, Start Num: 81

Candidate Starts for UncleRicky_19:

(76, 17207), (Start: 81 @17219 has 221 MA's), (92, 17240), (Start: 104 @17261 has 1 MA's), (121, 17300), (154, 17369), (159, 17378), (160, 17381), (167, 17399), (178, 17432), (184, 17447), (202, 17495), (238, 17600), (241, 17609), (255, 17651), (256, 17654), (273, 17732), (277, 17756), (287, 17822), (295, 17867), (302, 17897), (303, 17903), (305, 17921), (316, 17945), (319, 17954), (335, 17987), (338, 17993), (350, 18023), (363, 18062), (365, 18074), (367, 18083), (373, 18098), (374, 18101), (401, 18212), (403, 18224), (404, 18230), (410, 18245), (411, 18248), (419, 18269), (428, 18299), (432, 18311), (440, 18344), (453, 18410), (462, 18455), (463, 18458), (469, 18485), (471, 18491), (483, 18545), (484, 18548), (495, 18575), (514, 18650), (516, 18662), (517, 18665), (528, 18731), (534, 18755), (539, 18785), (547, 18827), (552, 18845), (553, 18848), (562, 18884), (565, 18902), (574, 18923), (579, 18950), (595, 19019), (598, 19037), (602, 19046), (604, 19058), (610, 19094), (615, 19124), (618, 19133), (620, 19145), (630, 19205), (635, 19259), (647, 19319), (652, 19361), (671, 19439), (681, 19496), (685, 19520), (692, 19574), (696, 19622), (703, 19664), (705, 19688), (706, 19691),

Gene: Urkel_27 Start: 20840, Stop: 23272, Start Num: 134

Candidate Starts for Urkel_27:

(127, 20822), (Start: 134 @20840 has 92 MA's), (154, 20888), (174, 20939), (263, 21200), (267, 21221), (317, 21458), (318, 21461), (323, 21491), (324, 21494), (347, 21563), (352, 21587), (353, 21593), (357, 21599), (365, 21632), (401, 21785), (416, 21842), (420, 21851), (433, 21902), (467, 22082), (472, 22097), (487, 22166), (492, 22178), (501, 22214), (508, 22241), (517, 22283), (525, 22322), (526, 22328), (527, 22337), (532, 22358), (544, 22418), (552, 22451), (555, 22469), (574, 22535), (581, 22577), (601, 22649), (603, 22658), (608, 22679), (619, 22751), (635, 22868), (665, 23015), (679, 23096), (689, 23171), (696, 23243),

Gene: VRedHorse_18 Start: 17564, Stop: 20101, Start Num: 81

Candidate Starts for VRedHorse_18:

(76, 17552), (Start: 81 @17564 has 221 MA's), (92, 17585), (Start: 104 @17606 has 1 MA's), (119, 17642), (121, 17645), (154, 17714), (159, 17723), (160, 17726), (167, 17744), (178, 17777), (184, 17792), (202, 17840), (238, 17945), (240, 17951), (241, 17954), (255, 17996), (256, 17999), (277, 18101), (287, 18167), (295, 18212), (302, 18242), (303, 18248), (305, 18266), (316, 18290), (319, 18299), (335, 18332), (338, 18338), (357, 18389), (363, 18407), (365, 18419), (367, 18428), (373, 18443), (375, 18449), (401, 18557), (403, 18569), (404, 18575), (410, 18590), (411, 18593), (419, 18614), (428, 18644), (432, 18656), (440, 18689), (453, 18755), (462, 18800), (463, 18803), (469, 18830), (471, 18836), (483, 18890), (484, 18893), (514, 18995), (516, 19007), (517, 19010), (528, 19076), (534, 19100), (537, 19121), (539, 19130), (552, 19190), (553, 19193), (562, 19229), (565, 19247), (574, 19268), (579, 19295), (595, 19364), (598, 19382), (602, 19391), (604, 19403), (610, 19439), (620, 19490), (624, 19508), (630, 19550), (635, 19604), (652, 19706), (671, 19784), (681, 19841), (685, 19865), (692, 19919), (696, 19967), (705, 20033), (706, 20036),

Gene: Vagabond_58 Start: 35926, Stop: 38436, Start Num: 96

Candidate Starts for Vagabond_58:

(Start: 96 @35926 has 28 MA's), (108, 35959), (136, 36028), (137, 36031), (147, 36055), (160, 36079), (170, 36103), (178, 36136), (245, 36343), (248, 36355), (249, 36358), (281, 36505), (282, 36535), (287, 36559), (295, 36589), (296, 36592), (302, 36619), (305, 36643), (318, 36673), (344, 36730), (351, 36754), (363, 36790), (365, 36802), (373, 36826), (374, 36829), (382, 36871), (410, 36967), (411, 36970), (475, 37225), (514, 37369), (525, 37429), (536, 37501), (537, 37504), (558, 37600), (598, 37774), (604, 37795), (622, 37888), (625, 37900), (635, 37990), (650, 38065), (670, 38110), (699, 38311), (704, 38365), (709, 38380),

Gene: Veliki_27 Start: 20915, Stop: 23347, Start Num: 134

Candidate Starts for Veliki_27:

(Start: 134 @20915 has 92 MA's), (174, 21014), (263, 21275), (267, 21296), (305, 21503), (318, 21536), (323, 21566), (347, 21638), (352, 21662), (365, 21707), (401, 21860), (412, 21905), (416, 21917), (420, 21926), (433, 21977), (467, 22157), (472, 22172), (487, 22241), (492, 22253), (517, 22358), (525, 22397), (526, 22403), (527, 22412), (544, 22493), (554, 22541), (575, 22616), (581, 22652), (603, 22733), (608, 22754), (623, 22847), (635, 22943), (665, 23090), (673, 23132), (679, 23171), (689, 23246),

Gene: Veteran_18 Start: 17402, Stop: 19939, Start Num: 81

Candidate Starts for Veteran_18:

(Start: 81 @17402 has 221 MA's), (92, 17423), (Start: 104 @17444 has 1 MA's), (121, 17483), (154, 17552), (159, 17561), (160, 17564), (167, 17582), (178, 17615), (184, 17630), (238, 17783), (241, 17792), (256, 17837), (276, 17936), (277, 17939), (287, 18005), (302, 18080), (303, 18086), (316, 18128), (318, 18134), (319, 18137), (335, 18170), (338, 18176), (350, 18206), (357, 18227), (365, 18257), (367, 18266), (373, 18281), (374, 18284), (401, 18395), (402, 18398), (403, 18407), (404, 18413), (410, 18428), (411, 18431), (419, 18452), (428, 18482), (432, 18494), (440, 18527), (462, 18638), (463, 18641), (469, 18668), (471, 18674), (483, 18728), (484, 18731), (511, 18818), (514, 18833), (516, 18845), (517, 18848), (528, 18914), (534, 18938), (537, 18959), (539, 18968), (547, 19010), (552, 19028), (553, 19031), (560, 19061), (565, 19085), (571, 19097), (574, 19106), (595, 19202), (598, 19220), (602, 19229), (604, 19241), (610, 19277), (615, 19307), (618, 19316), (620, 19328), (630, 19388), (635, 19442), (647, 19502), (652, 19544), (681, 19679), (685, 19703), (692, 19757), (696, 19805), (703, 19847), (705, 19871), (706, 19874),

Gene: Violac_19 Start: 17946, Stop: 20471, Start Num: 81

Candidate Starts for Violac_19:

(Start: 81 @17946 has 221 MA's), (92, 17967), (102, 17988), (121, 18027), (154, 18096), (159, 18105), (160, 18108), (167, 18126), (184, 18174), (202, 18222), (240, 18333), (241, 18336), (253, 18369), (256, 18381), (273, 18459), (282, 18525), (288, 18558), (299, 18612), (302, 18624), (316, 18672), (318, 18678), (319, 18681), (322, 18690), (341, 18723), (355, 18762), (357, 18765), (361, 18780), (363, 18783), (370, 18810), (372, 18816), (373, 18819), (374, 18822), (380, 18849), (383, 18867), (385, 18870), (403, 18945), (410, 18966), (411, 18969), (421, 18996), (428, 19020), (440, 19065), (441, 19068), (450, 19119), (463, 19182), (465, 19191), (470, 19215), (501, 19320), (502, 19323), (514, 19374), (515, 19380), (516, 19386), (517, 19389), (525, 19434), (527, 19449), (533, 19476), (537, 19500), (539, 19509), (552, 19569), (553, 19572), (554, 19584), (565, 19626), (571, 19638), (598, 19761), (611, 19824), (624, 19887), (632, 19962), (673, 20163), (696, 20334), (702, 20373), (708, 20412), (709, 20415),

Gene: Visconti_30 Start: 24326, Stop: 26596, Start Num: 39

Candidate Starts for Visconti_30:

(Start: 39 @24326 has 22 MA's), (59, 24461), (61, 24470), (102, 24644), (105, 24650), (108, 24662), (167, 24815), (173, 24830), (177, 24845), (277, 25226), (279, 25232), (284, 25277), (301, 25364),

(370, 25565), (372, 25571), (382, 25619), (394, 25649), (400, 25673), (449, 25862), (456, 25889), (465, 25937), (482, 26009), (497, 26048), (503, 26069), (506, 26084), (511, 26102), (517, 26132), (536, 26216), (590, 26417), (600, 26459), (627, 26585),

Gene: Vivum_18 Start: 17344, Stop: 19881, Start Num: 81

Candidate Starts for Vivum_18:

(Start: 81 @17344 has 221 MA's), (92, 17365), (Start: 104 @17386 has 1 MA's), (121, 17425), (154, 17494), (159, 17503), (160, 17506), (167, 17524), (184, 17572), (238, 17725), (241, 17734), (256, 17779), (276, 17878), (277, 17881), (287, 17947), (302, 18022), (303, 18028), (305, 18046), (316, 18070), (318, 18076), (319, 18079), (335, 18112), (338, 18118), (350, 18148), (357, 18169), (365, 18199), (367, 18208), (373, 18223), (374, 18226), (401, 18337), (402, 18340), (403, 18349), (404, 18355), (410, 18370), (411, 18373), (419, 18394), (428, 18424), (432, 18436), (440, 18469), (462, 18580), (463, 18583), (469, 18610), (471, 18616), (483, 18670), (484, 18673), (514, 18775), (516, 18787), (517, 18790), (528, 18856), (534, 18880), (537, 18901), (539, 18910), (552, 18970), (553, 18973), (562, 19009), (565, 19027), (571, 19039), (574, 19048), (579, 19075), (594, 19132), (595, 19144), (598, 19162), (602, 19171), (604, 19183), (610, 19219), (615, 19249), (618, 19258), (620, 19270), (630, 19330), (635, 19384), (647, 19444), (652, 19486), (681, 19621), (685, 19645), (692, 19699), (696, 19747), (703, 19789), (705, 19813), (706, 19816),

Gene: Vorrps_58 Start: 36138, Stop: 38648, Start Num: 96

Candidate Starts for Vorrps_58:

(Start: 96 @36138 has 28 MA's), (108, 36171), (136, 36240), (137, 36243), (147, 36267), (160, 36291), (170, 36315), (178, 36348), (245, 36555), (248, 36567), (249, 36570), (281, 36717), (282, 36747), (287, 36771), (295, 36801), (296, 36804), (302, 36831), (305, 36855), (318, 36885), (344, 36942), (351, 36966), (363, 37002), (365, 37014), (373, 37038), (374, 37041), (382, 37083), (410, 37179), (411, 37182), (475, 37437), (514, 37581), (525, 37641), (536, 37713), (537, 37716), (558, 37812), (598, 37986), (604, 38007), (622, 38100), (625, 38112), (635, 38202), (650, 38277), (670, 38322), (699, 38523), (704, 38577), (709, 38592),

Gene: Wachhund_18 Start: 17422, Stop: 19959, Start Num: 81

Candidate Starts for Wachhund_18:

(Start: 81 @17422 has 221 MA's), (92, 17443), (Start: 104 @17464 has 1 MA's), (121, 17503), (154, 17572), (159, 17581), (160, 17584), (167, 17602), (184, 17650), (240, 17809), (241, 17812), (256, 17857), (273, 17935), (276, 17956), (277, 17959), (287, 18025), (302, 18100), (303, 18106), (316, 18148), (318, 18154), (319, 18157), (335, 18190), (338, 18196), (350, 18226), (357, 18247), (365, 18277), (367, 18286), (397, 18394), (401, 18415), (402, 18418), (403, 18427), (404, 18433), (410, 18448), (411, 18451), (419, 18472), (428, 18502), (432, 18514), (440, 18547), (462, 18658), (463, 18661), (469, 18688), (471, 18694), (483, 18748), (484, 18751), (511, 18838), (514, 18853), (516, 18865), (517, 18868), (528, 18934), (537, 18979), (539, 18988), (552, 19048), (553, 19051), (562, 19087), (565, 19105), (571, 19117), (574, 19126), (579, 19153), (595, 19222), (598, 19240), (602, 19249), (604, 19261), (610, 19297), (615, 19327), (620, 19348), (626, 19372), (630, 19408), (635, 19462), (647, 19522), (652, 19564), (681, 19699), (685, 19723), (692, 19777), (696, 19825), (703, 19867), (705, 19891), (706, 19894),

Gene: WaldoWhy_31 Start: 24322, Stop: 26592, Start Num: 39

Candidate Starts for WaldoWhy_31:

(Start: 39 @24322 has 22 MA's), (59, 24457), (61, 24466), (102, 24640), (105, 24646), (108, 24658), (167, 24811), (173, 24826), (177, 24841), (277, 25222), (279, 25228), (284, 25273), (301, 25360), (370, 25561), (372, 25567), (382, 25615), (394, 25645), (400, 25669), (449, 25858), (456, 25885), (465, 25933), (482, 26005), (497, 26044), (503, 26065), (506, 26080), (511, 26098), (517, 26128), (536, 26212), (590, 26413), (600, 26455), (627, 26581),

Gene: Wanda_39 Start: 29807, Stop: 32362, Start Num: 81

Candidate Starts for Wanda_39:

(Start: 81 @29807 has 221 MA's), (167, 30002), (178, 30038), (184, 30053), (202, 30101), (240, 30212), (241, 30215), (252, 30245), (256, 30260), (273, 30338), (277, 30362), (287, 30428), (295, 30473), (302, 30503), (303, 30509), (305, 30527), (316, 30551), (319, 30560), (335, 30593), (338, 30599), (350, 30629), (363, 30668), (365, 30680), (367, 30689), (373, 30704), (374, 30707), (401, 30818), (402, 30821), (403, 30830), (404, 30836), (410, 30851), (411, 30854), (419, 30875), (428, 30905), (432, 30917), (440, 30950), (453, 31016), (462, 31061), (463, 31064), (469, 31091), (471, 31097), (483, 31151), (484, 31154), (511, 31241), (514, 31256), (516, 31268), (517, 31271), (528, 31337), (537, 31382), (539, 31391), (552, 31451), (553, 31454), (562, 31490), (565, 31508), (571, 31520), (574, 31529), (579, 31556), (595, 31625), (598, 31643), (602, 31652), (604, 31664), (610, 31700), (615, 31730), (620, 31751), (626, 31775), (630, 31811), (635, 31865), (647, 31925), (652, 31967), (681, 32102), (685, 32126), (692, 32180), (696, 32228), (703, 32270), (705, 32294), (706, 32297),

Gene: Wee_19 Start: 17971, Stop: 20508, Start Num: 81

Candidate Starts for Wee_19:

(76, 17959), (Start: 81 @17971 has 221 MA's), (92, 17992), (Start: 104 @18013 has 1 MA's), (121, 18052), (154, 18121), (159, 18130), (160, 18133), (167, 18151), (178, 18184), (184, 18199), (202, 18247), (238, 18352), (240, 18358), (241, 18361), (255, 18403), (256, 18406), (273, 18484), (287, 18574), (295, 18619), (302, 18649), (303, 18655), (305, 18673), (316, 18697), (319, 18706), (335, 18739), (338, 18745), (350, 18775), (363, 18814), (365, 18826), (367, 18835), (373, 18850), (374, 18853), (401, 18964), (402, 18967), (403, 18976), (404, 18982), (410, 18997), (411, 19000), (419, 19021), (428, 19051), (432, 19063), (440, 19096), (453, 19162), (462, 19207), (463, 19210), (469, 19237), (471, 19243), (483, 19297), (484, 19300), (511, 19387), (514, 19402), (516, 19414), (517, 19417), (528, 19483), (537, 19528), (539, 19537), (552, 19597), (553, 19600), (562, 19636), (565, 19654), (571, 19666), (574, 19675), (579, 19702), (595, 19771), (598, 19789), (602, 19798), (604, 19810), (610, 19846), (615, 19876), (620, 19897), (626, 19921), (630, 19957), (635, 20011), (647, 20071), (652, 20113), (681, 20248), (685, 20272), (692, 20326), (696, 20374), (703, 20416), (705, 20440), (706, 20443),

Gene: Weiss13_30 Start: 24327, Stop: 27827, Start Num: 2

Candidate Starts for Weiss13_30:

(Start: 2 @24327 has 8 MA's), (4, 24339), (Start: 5 @24351 has 1 MA's), (8, 24534), (11, 24615), (17, 24714), (19, 24738), (20, 24756), (37, 24915), (41, 24948), (48, 24996), (50, 25011), (54, 25035), (75, 25161), (77, 25170), (145, 25356), (222, 25557), (266, 25734), (282, 25833), (288, 25866), (297, 25911), (300, 25923), (308, 25965), (315, 25977), (343, 26043), (367, 26127), (372, 26142), (379, 26172), (404, 26277), (424, 26328), (436, 26373), (445, 26418), (454, 26463), (460, 26484), (462, 26502), (463, 26505), (464, 26511), (465, 26514), (500, 26652), (512, 26700), (513, 26706), (524, 26766), (527, 26787), (545, 26880), (557, 26940), (560, 26949), (562, 26955), (566, 26976), (593, 27081), (606, 27141), (618, 27207), (620, 27219), (624, 27237), (626, 27243), (666, 27477), (672, 27516), (680, 27561), (684, 27591), (695, 27684), (700, 27711),

Gene: Whatsapiecost_18 Start: 17447, Stop: 19984, Start Num: 81

Candidate Starts for Whatsapiecost_18:

(76, 17435), (Start: 81 @17447 has 221 MA's), (92, 17468), (Start: 104 @17489 has 1 MA's), (121, 17528), (154, 17597), (159, 17606), (160, 17609), (167, 17627), (178, 17660), (184, 17675), (202, 17723), (240, 17834), (241, 17837), (252, 17867), (255, 17879), (256, 17882), (273, 17960), (277, 17984), (287, 18050), (295, 18095), (302, 18125), (303, 18131), (305, 18149), (316, 18173), (319, 18182), (335, 18215), (338, 18221), (350, 18251), (363, 18290), (365, 18302), (367, 18311), (373, 18326), (374, 18329), (401, 18440), (402, 18443), (403, 18452), (404, 18458), (410, 18473), (411, 18476), (419, 18497), (428, 18527), (432, 18539), (440, 18572), (462, 18683), (463, 18686), (469, 18713), (471, 18719), (483, 18773), (484, 18776), (514, 18878), (516, 18890), (517, 18893), (528, 18959), (534, 18983), (537, 19004), (539, 19013), (552, 19073), (553, 19076), (562, 19112), (565,

19130), (571, 19142), (574, 19151), (579, 19178), (595, 19247), (598, 19265), (602, 19274), (604, 19286), (610, 19322), (615, 19352), (620, 19373), (626, 19397), (630, 19433), (635, 19487), (647, 19547), (652, 19589), (671, 19667), (681, 19724), (685, 19748), (692, 19802), (696, 19850), (703, 19892), (705, 19916), (706, 19919),

Gene: Whouxphf_18 Start: 17504, Stop: 20041, Start Num: 81

Candidate Starts for Whouxphf_18:

(Start: 81 @17504 has 221 MA's), (92, 17525), (Start: 104 @17546 has 1 MA's), (121, 17585), (154, 17654), (159, 17663), (160, 17666), (167, 17684), (184, 17732), (240, 17891), (241, 17894), (256, 17939), (276, 18038), (277, 18041), (302, 18182), (303, 18188), (316, 18230), (318, 18236), (319, 18239), (335, 18272), (338, 18278), (350, 18308), (357, 18329), (365, 18359), (367, 18368), (397, 18476), (400, 18488), (401, 18497), (402, 18500), (403, 18509), (404, 18515), (410, 18530), (411, 18533), (419, 18554), (432, 18596), (440, 18629), (469, 18770), (471, 18776), (483, 18830), (484, 18833), (495, 18860), (514, 18935), (516, 18947), (517, 18950), (528, 19016), (534, 19040), (537, 19061), (539, 19070), (547, 19112), (552, 19130), (553, 19133), (560, 19163), (565, 19187), (574, 19208), (595, 19304), (598, 19322), (602, 19331), (604, 19343), (610, 19379), (615, 19409), (618, 19418), (620, 19430), (630, 19490), (652, 19646), (671, 19724), (681, 19781), (685, 19805), (692, 19859), (696, 19907), (700, 19928), (705, 19973), (706, 19976),

Gene: Wiggin_29 Start: 22788, Stop: 25184, Start Num: 126

Candidate Starts for Wiggin_29:

(Start: 126 @22788 has 125 MA's), (195, 22965), (206, 22986), (264, 23133), (294, 23307), (302, 23340), (309, 23376), (350, 23469), (367, 23529), (374, 23547), (406, 23679), (422, 23724), (453, 23856), (462, 23901), (478, 23961), (510, 24075), (514, 24096), (522, 24135), (525, 24156), (527, 24171), (560, 24321), (562, 24327), (565, 24345), (580, 24399), (598, 24483), (618, 24576), (661, 24822), (696, 25038), (706, 25122), (712, 25155),

Gene: Wildcat_43 Start: 28342, Stop: 30909, Start Num: 83

Candidate Starts for Wildcat_43:

(Start: 83 @28342 has 6 MA's), (109, 28411), (164, 28534), (166, 28540), (167, 28543), (177, 28567), (182, 28588), (237, 28744), (239, 28750), (241, 28756), (249, 28786), (250, 28792), (256, 28813), (258, 28822), (271, 28882), (284, 28960), (303, 29059), (310, 29092), (318, 29107), (319, 29110), (338, 29149), (357, 29200), (363, 29218), (367, 29239), (370, 29245), (378, 29272), (382, 29299), (401, 29368), (408, 29392), (415, 29413), (422, 29434), (427, 29443), (432, 29464), (440, 29497), (441, 29500), (450, 29551), (453, 29563), (466, 29629), (472, 29647), (479, 29686), (514, 29803), (523, 29848), (533, 29905), (537, 29929), (539, 29938), (542, 29956), (552, 30001), (560, 30034), (567, 30070), (609, 30244), (610, 30262), (611, 30268), (623, 30325), (680, 30649), (682, 30667), (690, 30718), (697, 30781), (705, 30856),

Gene: Wildflower_58 Start: 35650, Stop: 38160, Start Num: 96

Candidate Starts for Wildflower_58:

(Start: 96 @35650 has 28 MA's), (108, 35683), (136, 35752), (137, 35755), (147, 35779), (160, 35803), (170, 35827), (178, 35860), (245, 36067), (248, 36079), (249, 36082), (281, 36229), (282, 36259), (287, 36283), (295, 36313), (296, 36316), (302, 36343), (305, 36367), (318, 36397), (344, 36454), (363, 36514), (365, 36526), (373, 36550), (374, 36553), (382, 36595), (410, 36691), (411, 36694), (475, 36949), (514, 37093), (525, 37153), (536, 37225), (537, 37228), (558, 37324), (598, 37498), (604, 37519), (622, 37612), (625, 37624), (635, 37714), (650, 37789), (670, 37834), (699, 38035), (704, 38089), (709, 38104),

Gene: WillSterrel_19 Start: 18757, Stop: 21294, Start Num: 81

Candidate Starts for WillSterrel_19:

(Start: 81 @18757 has 221 MA's), (92, 18778), (Start: 104 @18799 has 1 MA's), (121, 18838), (154, 18907), (159, 18916), (160, 18919), (167, 18937), (184, 18985), (238, 19138), (241, 19147), (256,

19192), (276, 19291), (277, 19294), (287, 19360), (302, 19435), (303, 19441), (305, 19459), (316, 19483), (318, 19489), (319, 19492), (335, 19525), (338, 19531), (350, 19561), (357, 19582), (365, 19612), (367, 19621), (373, 19636), (374, 19639), (401, 19750), (402, 19753), (403, 19762), (404, 19768), (410, 19783), (411, 19786), (419, 19807), (428, 19837), (432, 19849), (440, 19882), (462, 19993), (463, 19996), (469, 20023), (471, 20029), (483, 20083), (484, 20086), (511, 20173), (514, 20188), (516, 20200), (517, 20203), (528, 20269), (534, 20293), (537, 20314), (539, 20323), (552, 20383), (553, 20386), (562, 20422), (565, 20440), (571, 20452), (574, 20461), (579, 20488), (594, 20545), (595, 20557), (598, 20575), (602, 20584), (604, 20596), (610, 20632), (615, 20662), (618, 20671), (620, 20683), (630, 20743), (635, 20797), (647, 20857), (652, 20899), (681, 21034), (685, 21058), (692, 21112), (696, 21160), (703, 21202), (705, 21226), (706, 21229),

Gene: Willez_25 Start: 21788, Stop: 24184, Start Num: 126

Candidate Starts for Willez_25:

(Start: 126 @21788 has 125 MA's), (195, 21965), (206, 21986), (264, 22133), (288, 22274), (294, 22307), (302, 22340), (309, 22376), (350, 22469), (367, 22529), (374, 22547), (406, 22679), (422, 22724), (453, 22856), (462, 22901), (478, 22961), (510, 23075), (514, 23096), (522, 23135), (525, 23156), (527, 23171), (560, 23321), (562, 23327), (565, 23345), (580, 23399), (598, 23483), (618, 23576), (661, 23822), (696, 24038), (706, 24122), (712, 24155),

Gene: Winget_59 Start: 36356, Stop: 38866, Start Num: 96

Candidate Starts for Winget_59:

(Start: 96 @36356 has 28 MA's), (108, 36389), (136, 36458), (137, 36461), (147, 36485), (160, 36509), (170, 36533), (178, 36566), (245, 36773), (248, 36785), (249, 36788), (281, 36935), (282, 36965), (287, 36989), (295, 37019), (296, 37022), (302, 37049), (305, 37073), (318, 37103), (344, 37160), (351, 37184), (363, 37220), (365, 37232), (373, 37256), (374, 37259), (382, 37301), (410, 37397), (411, 37400), (475, 37655), (514, 37799), (525, 37859), (536, 37931), (537, 37934), (558, 38030), (598, 38204), (604, 38225), (622, 38318), (625, 38330), (635, 38420), (650, 38495), (670, 38540), (699, 38741), (704, 38795), (709, 38810),

Gene: Wogge42_57 Start: 35797, Stop: 38307, Start Num: 96

Candidate Starts for Wogge42_57:

(Start: 96 @35797 has 28 MA's), (108, 35830), (136, 35899), (137, 35902), (147, 35926), (160, 35950), (170, 35974), (178, 36007), (245, 36214), (248, 36226), (249, 36229), (281, 36376), (282, 36406), (287, 36430), (295, 36460), (296, 36463), (302, 36490), (305, 36514), (318, 36544), (344, 36601), (351, 36625), (363, 36661), (365, 36673), (373, 36697), (374, 36700), (382, 36742), (410, 36838), (411, 36841), (475, 37096), (514, 37240), (525, 37300), (536, 37372), (537, 37375), (558, 37471), (598, 37645), (604, 37666), (622, 37759), (625, 37771), (635, 37861), (650, 37936), (670, 37981), (699, 38182), (704, 38236), (709, 38251),

Gene: XFactor_18 Start: 17403, Stop: 19940, Start Num: 81

Candidate Starts for XFactor_18:

(76, 17391), (Start: 81 @17403 has 221 MA's), (92, 17424), (Start: 104 @17445 has 1 MA's), (121, 17484), (154, 17553), (159, 17562), (160, 17565), (167, 17583), (178, 17616), (184, 17631), (202, 17679), (240, 17790), (241, 17793), (252, 17823), (256, 17838), (273, 17916), (277, 17940), (287, 18006), (295, 18051), (302, 18081), (303, 18087), (305, 18105), (316, 18129), (319, 18138), (335, 18171), (338, 18177), (350, 18207), (363, 18246), (365, 18258), (367, 18267), (373, 18282), (374, 18285), (401, 18396), (402, 18399), (403, 18408), (404, 18414), (410, 18429), (411, 18432), (419, 18453), (428, 18483), (432, 18495), (440, 18528), (462, 18639), (463, 18642), (469, 18669), (471, 18675), (483, 18729), (484, 18732), (514, 18834), (516, 18846), (517, 18849), (528, 18915), (534, 18939), (537, 18960), (539, 18969), (552, 19029), (553, 19032), (562, 19068), (565, 19086), (571, 19098), (574, 19107), (579, 19134), (595, 19203), (598, 19221), (602, 19230), (604, 19242), (610, 19278), (615, 19308), (620, 19329), (626, 19353), (630, 19389), (635, 19443), (647, 19503), (652, 19545), (671, 19623), (681, 19680), (685, 19704), (692, 19758), (696, 19806), (703, 19848), (705,

19872), (706, 19875),

Gene: Xandras_28 Start: 22274, Stop: 24670, Start Num: 126

Candidate Starts for Xandras_28:

(Start: 126 @22274 has 125 MA's), (195, 22451), (206, 22472), (264, 22619), (294, 22793), (302, 22826), (309, 22862), (350, 22955), (367, 23015), (374, 23033), (406, 23165), (422, 23210), (453, 23342), (462, 23387), (478, 23447), (510, 23561), (514, 23582), (522, 23621), (525, 23642), (527, 23657), (560, 23807), (562, 23813), (565, 23831), (580, 23885), (598, 23969), (618, 24062), (661, 24308), (696, 24524), (706, 24608), (712, 24641),

Gene: YassJohnny_27 Start: 22799, Stop: 25195, Start Num: 126

Candidate Starts for YassJohnny_27:

(Start: 126 @22799 has 125 MA's), (195, 22976), (206, 22997), (264, 23144), (288, 23285), (294, 23318), (302, 23351), (309, 23387), (350, 23480), (367, 23540), (374, 23558), (406, 23690), (422, 23735), (453, 23867), (462, 23912), (510, 24086), (514, 24107), (522, 24146), (525, 24167), (527, 24182), (562, 24338), (565, 24356), (580, 24410), (598, 24494), (618, 24587), (661, 24833), (696, 25049), (706, 25133), (712, 25166),

Gene: Yelo_30 Start: 24620, Stop: 28120, Start Num: 2

Candidate Starts for Yelo_30:

(Start: 2 @24620 has 8 MA's), (4, 24632), (Start: 5 @24644 has 1 MA's), (8, 24827), (11, 24908), (17, 25007), (19, 25031), (20, 25049), (37, 25208), (41, 25241), (48, 25289), (54, 25328), (75, 25454), (77, 25463), (145, 25649), (222, 25850), (266, 26027), (282, 26126), (288, 26159), (297, 26204), (308, 26258), (313, 26267), (315, 26270), (343, 26336), (367, 26420), (372, 26435), (379, 26465), (404, 26570), (424, 26621), (436, 26666), (445, 26711), (454, 26756), (460, 26777), (462, 26795), (463, 26798), (464, 26804), (465, 26807), (500, 26945), (512, 26993), (513, 26999), (524, 27059), (527, 27080), (545, 27173), (557, 27233), (560, 27242), (562, 27248), (566, 27269), (606, 27434), (618, 27500), (620, 27512), (624, 27530), (626, 27536), (666, 27770), (672, 27809), (680, 27854), (684, 27884), (695, 27977), (700, 28004),

Gene: Yorick_18 Start: 17404, Stop: 19956, Start Num: 81

Candidate Starts for Yorick_18:

(Start: 81 @17404 has 221 MA's), (121, 17485), (154, 17554), (159, 17563), (160, 17566), (167, 17584), (184, 17632), (201, 17677), (240, 17791), (241, 17794), (244, 17806), (253, 17827), (255, 17836), (256, 17839), (267, 17887), (273, 17917), (282, 17983), (288, 18016), (295, 18052), (301, 18076), (318, 18136), (319, 18139), (326, 18157), (355, 18220), (357, 18223), (363, 18241), (367, 18262), (374, 18280), (380, 18307), (385, 18328), (396, 18361), (403, 18403), (404, 18409), (406, 18412), (411, 18427), (421, 18454), (422, 18457), (428, 18478), (432, 18490), (440, 18523), (460, 18616), (483, 18724), (489, 18748), (495, 18754), (500, 18772), (501, 18775), (507, 18799), (514, 18829), (519, 18853), (525, 18889), (526, 18895), (527, 18904), (533, 18931), (543, 18994), (547, 19018), (548, 19033), (560, 19075), (575, 19126), (596, 19222), (598, 19237), (602, 19246), (607, 19270), (618, 19333), (626, 19369), (678, 19675), (685, 19720), (696, 19822),

Gene: Yoshi_24 Start: 17092, Stop: 19641, Start Num: 65

Candidate Starts for Yoshi_24:

(63, 17083), (Start: 65 @17092 has 7 MA's), (Start: 81 @17152 has 221 MA's), (100, 17185), (101, 17188), (133, 17257), (145, 17287), (224, 17467), (229, 17482), (241, 17518), (242, 17524), (254, 17545), (260, 17569), (266, 17593), (292, 17740), (295, 17749), (302, 17773), (305, 17797), (316, 17821), (318, 17827), (326, 17848), (338, 17869), (350, 17899), (359, 17929), (365, 17950), (391, 18043), (396, 18058), (397, 18067), (401, 18088), (402, 18091), (428, 18175), (429, 18178), (432, 18187), (441, 18223), (447, 18262), (451, 18283), (453, 18286), (461, 18322), (465, 18343), (483, 18421), (484, 18424), (504, 18478), (516, 18538), (532, 18625), (534, 18631), (536, 18649), (537, 18652), (545, 18688), (557, 18742), (560, 18751), (578, 18829), (581, 18847), (589, 18883), (591,

18886), (595, 18904), (596, 18907), (598, 18922), (610, 18979), (612, 18991), (626, 19054), (630, 19087), (639, 19174), (649, 19222), (651, 19246), (657, 19273), (661, 19282), (670, 19321), (677, 19360), (681, 19384), (684, 19405), (696, 19501), (700, 19522), (709, 19585), (712, 19612), (713, 19621),

Gene: Youngblood_26 Start: 22452, Stop: 24848, Start Num: 126

Candidate Starts for Youngblood_26:

(Start: 126 @22452 has 125 MA's), (195, 22629), (206, 22650), (264, 22797), (288, 22938), (294, 22971), (302, 23004), (309, 23040), (350, 23133), (367, 23193), (374, 23211), (406, 23343), (422, 23388), (453, 23520), (462, 23565), (478, 23625), (510, 23739), (514, 23760), (522, 23799), (525, 23820), (527, 23835), (562, 23991), (565, 24009), (580, 24063), (598, 24147), (618, 24240), (661, 24486), (696, 24702), (706, 24786), (712, 24819),

Gene: YoureAdopted_26 Start: 20848, Stop: 23280, Start Num: 134

Candidate Starts for YoureAdopted_26:

(Start: 134 @20848 has 92 MA's), (174, 20947), (263, 21208), (267, 21229), (305, 21436), (318, 21469), (323, 21499), (347, 21571), (352, 21595), (365, 21640), (401, 21793), (412, 21838), (416, 21850), (420, 21859), (433, 21910), (467, 22090), (472, 22105), (487, 22174), (492, 22186), (517, 22291), (525, 22330), (526, 22336), (527, 22345), (544, 22426), (554, 22474), (575, 22549), (581, 22585), (601, 22657), (603, 22666), (608, 22687), (623, 22780), (635, 22876), (665, 23023), (673, 23065), (679, 23104), (689, 23179),

Gene: YungJamal_63 Start: 37548, Stop: 40058, Start Num: 96

Candidate Starts for YungJamal_63:

(Start: 96 @37548 has 28 MA's), (108, 37581), (136, 37650), (137, 37653), (147, 37677), (160, 37701), (170, 37725), (178, 37758), (245, 37965), (248, 37977), (249, 37980), (281, 38127), (282, 38157), (287, 38181), (295, 38211), (296, 38214), (302, 38241), (305, 38265), (318, 38295), (344, 38352), (363, 38412), (365, 38424), (373, 38448), (374, 38451), (382, 38493), (410, 38589), (411, 38592), (475, 38847), (514, 38991), (525, 39051), (536, 39123), (537, 39126), (558, 39222), (598, 39396), (604, 39417), (622, 39510), (625, 39522), (635, 39612), (650, 39687), (670, 39732), (699, 39933), (704, 39987), (709, 40002),

Gene: Yunkel11_27 Start: 20098, Stop: 22530, Start Num: 134

Candidate Starts for Yunkel11_27:

(Start: 134 @20098 has 92 MA's), (154, 20146), (156, 20149), (159, 20158), (263, 20458), (267, 20479), (318, 20719), (347, 20821), (352, 20845), (353, 20851), (365, 20890), (401, 21043), (416, 21100), (420, 21109), (433, 21160), (469, 21346), (472, 21355), (473, 21361), (483, 21406), (487, 21424), (508, 21499), (517, 21541), (525, 21580), (526, 21586), (527, 21595), (532, 21616), (541, 21664), (552, 21709), (554, 21724), (574, 21793), (581, 21835), (603, 21916), (619, 22009), (623, 22030), (635, 22126), (679, 22354), (686, 22408), (689, 22429), (696, 22501), (698, 22519),

Gene: Zabiza_27 Start: 20879, Stop: 23311, Start Num: 134

Candidate Starts for Zabiza_27:

(Start: 134 @20879 has 92 MA's), (174, 20978), (263, 21239), (267, 21260), (305, 21467), (318, 21500), (323, 21530), (347, 21602), (352, 21626), (365, 21671), (401, 21824), (412, 21869), (416, 21881), (420, 21890), (433, 21941), (467, 22121), (472, 22136), (487, 22205), (492, 22217), (517, 22322), (525, 22361), (526, 22367), (527, 22376), (544, 22457), (554, 22505), (575, 22580), (581, 22616), (603, 22697), (608, 22718), (623, 22811), (635, 22907), (665, 23054), (673, 23096), (679, 23135), (689, 23210),

Gene: Zakhe101_58 Start: 36194, Stop: 38704, Start Num: 96

Candidate Starts for Zakhe101_58:

(Start: 96 @36194 has 28 MA's), (108, 36227), (136, 36296), (137, 36299), (147, 36323), (160, 36347), (170, 36371), (178, 36404), (245, 36611), (248, 36623), (249, 36626), (281, 36773), (282, 36803), (287, 36827), (295, 36857), (296, 36860), (302, 36887), (305, 36911), (318, 36941), (344, 36998), (363, 37058), (365, 37070), (373, 37094), (374, 37097), (382, 37139), (410, 37235), (411, 37238), (475, 37493), (514, 37637), (525, 37697), (536, 37769), (537, 37772), (558, 37868), (598, 38042), (604, 38063), (622, 38156), (625, 38168), (635, 38258), (650, 38333), (670, 38378), (699, 38579), (704, 38633), (709, 38648),

Gene: Zapner_25 Start: 17617, Stop: 20169, Start Num: 65

Candidate Starts for Zapner_25:

(63, 17608), (Start: 65 @17617 has 7 MA's), (Start: 81 @17677 has 221 MA's), (101, 17713), (145, 17812), (202, 17953), (224, 17992), (229, 18007), (241, 18043), (242, 18049), (243, 18052), (254, 18070), (260, 18094), (266, 18118), (267, 18121), (292, 18265), (295, 18274), (302, 18298), (305, 18322), (316, 18346), (318, 18352), (326, 18373), (328, 18376), (338, 18394), (350, 18427), (359, 18457), (365, 18478), (391, 18571), (396, 18586), (397, 18595), (401, 18616), (402, 18619), (415, 18661), (428, 18703), (429, 18706), (432, 18715), (439, 18742), (441, 18751), (447, 18790), (451, 18811), (453, 18814), (461, 18850), (465, 18871), (483, 18949), (484, 18952), (504, 19006), (516, 19066), (532, 19153), (534, 19159), (537, 19180), (545, 19216), (557, 19270), (560, 19279), (578, 19357), (581, 19375), (589, 19411), (591, 19414), (595, 19432), (598, 19450), (610, 19507), (612, 19519), (626, 19582), (630, 19615), (639, 19702), (649, 19750), (651, 19774), (661, 19810), (670, 19849), (677, 19888), (681, 19912), (684, 19933), (696, 20029), (700, 20050), (707, 20110), (709, 20113), (712, 20140),

Gene: Zavala_27 Start: 20854, Stop: 23286, Start Num: 134

Candidate Starts for Zavala_27:

(Start: 134 @20854 has 92 MA's), (174, 20953), (263, 21214), (267, 21235), (305, 21442), (318, 21475), (323, 21505), (347, 21577), (352, 21601), (365, 21646), (401, 21799), (412, 21844), (416, 21856), (420, 21865), (433, 21916), (467, 22096), (472, 22111), (487, 22180), (492, 22192), (508, 22255), (517, 22297), (525, 22336), (526, 22342), (527, 22351), (532, 22372), (544, 22432), (574, 22549), (581, 22591), (601, 22663), (603, 22672), (608, 22693), (619, 22765), (623, 22786), (635, 22882), (647, 22945), (679, 23110), (696, 23257),

Gene: Zebo_57 Start: 36132, Stop: 38609, Start Num: 108

Candidate Starts for Zebo_57:

(Start: 96 @36099 has 28 MA's), (108, 36132), (136, 36201), (137, 36204), (147, 36228), (160, 36252), (170, 36276), (178, 36309), (245, 36516), (248, 36528), (249, 36531), (281, 36678), (282, 36708), (287, 36732), (295, 36762), (296, 36765), (302, 36792), (305, 36816), (318, 36846), (344, 36903), (351, 36927), (363, 36963), (365, 36975), (373, 36999), (374, 37002), (382, 37044), (410, 37140), (411, 37143), (475, 37398), (514, 37542), (525, 37602), (536, 37674), (537, 37677), (558, 37773), (598, 37947), (604, 37968), (622, 38061), (625, 38073), (635, 38163), (650, 38238), (670, 38283), (699, 38484), (704, 38538), (709, 38553),

Gene: Zenon_31 Start: 24639, Stop: 28139, Start Num: 2

Candidate Starts for Zenon_31:

(Start: 2 @24639 has 8 MA's), (4, 24651), (Start: 5 @24663 has 1 MA's), (8, 24846), (11, 24927), (17, 25026), (19, 25050), (20, 25068), (37, 25227), (41, 25260), (48, 25308), (54, 25347), (75, 25473), (77, 25482), (145, 25668), (222, 25869), (266, 26046), (282, 26145), (288, 26178), (297, 26223), (300, 26235), (308, 26277), (315, 26289), (343, 26355), (367, 26439), (372, 26454), (379, 26484), (404, 26589), (424, 26640), (436, 26685), (445, 26730), (454, 26775), (460, 26796), (462, 26814), (463, 26817), (464, 26823), (465, 26826), (500, 26964), (512, 27012), (513, 27018), (524, 27078), (527, 27099), (545, 27192), (557, 27252), (560, 27261), (562, 27267), (566, 27288), (606, 27453), (618, 27519), (620, 27531), (624, 27549), (626, 27555), (666, 27789), (672, 27828), (680, 27873), (684, 27903), (695, 27996), (700, 28023),

Gene: Zerg_18 Start: 17367, Stop: 19904, Start Num: 81

Candidate Starts for Zerg_18:

(Start: 81 @17367 has 221 MA's), (128, 17457), (154, 17517), (159, 17526), (160, 17529), (167, 17547), (184, 17595), (238, 17748), (241, 17757), (256, 17802), (276, 17901), (277, 17904), (287, 17970), (302, 18045), (303, 18051), (305, 18069), (316, 18093), (318, 18099), (319, 18102), (335, 18135), (338, 18141), (350, 18171), (357, 18192), (365, 18222), (367, 18231), (373, 18246), (374, 18249), (401, 18360), (402, 18363), (403, 18372), (404, 18378), (410, 18393), (411, 18396), (419, 18417), (428, 18447), (432, 18459), (440, 18492), (462, 18603), (463, 18606), (469, 18633), (471, 18639), (483, 18693), (484, 18696), (511, 18783), (514, 18798), (516, 18810), (517, 18813), (528, 18879), (534, 18903), (537, 18924), (539, 18933), (552, 18993), (553, 18996), (562, 19032), (565, 19050), (571, 19062), (574, 19071), (579, 19098), (594, 19155), (595, 19167), (598, 19185), (602, 19194), (604, 19206), (610, 19242), (615, 19272), (618, 19281), (620, 19293), (630, 19353), (635, 19407), (647, 19467), (652, 19509), (681, 19644), (685, 19668), (692, 19722), (696, 19770), (703, 19812), (705, 19836), (706, 19839),

Gene: Zizzle_18 Start: 17375, Stop: 19900, Start Num: 81

Candidate Starts for Zizzle_18:

(Start: 81 @17375 has 221 MA's), (121, 17456), (154, 17525), (159, 17534), (160, 17537), (167, 17555), (184, 17603), (201, 17648), (240, 17762), (241, 17765), (253, 17798), (256, 17810), (273, 17888), (282, 17954), (288, 17987), (299, 18041), (302, 18053), (318, 18107), (319, 18110), (322, 18119), (341, 18152), (355, 18191), (357, 18194), (361, 18209), (363, 18212), (370, 18239), (372, 18245), (373, 18248), (374, 18251), (380, 18278), (383, 18296), (385, 18299), (403, 18374), (410, 18395), (411, 18398), (421, 18425), (428, 18449), (440, 18494), (441, 18497), (450, 18548), (463, 18611), (465, 18620), (470, 18644), (501, 18749), (502, 18752), (514, 18803), (515, 18809), (516, 18815), (517, 18818), (525, 18863), (527, 18878), (533, 18905), (537, 18929), (547, 18980), (552, 18998), (553, 19001), (554, 19013), (571, 19067), (598, 19190), (611, 19253), (624, 19316), (632, 19391), (673, 19592), (702, 19802), (708, 19841), (709, 19844),

Gene: xkcd_27 Start: 22453, Stop: 24849, Start Num: 126

Candidate Starts for xkcd_27:

(Start: 126 @22453 has 125 MA's), (195, 22630), (206, 22651), (264, 22798), (288, 22939), (294, 22972), (302, 23005), (309, 23041), (350, 23134), (367, 23194), (374, 23212), (406, 23344), (422, 23389), (453, 23521), (462, 23566), (510, 23740), (514, 23761), (522, 23800), (525, 23821), (527, 23836), (562, 23992), (565, 24010), (580, 24064), (598, 24148), (618, 24241), (661, 24487), (696, 24703), (706, 24787), (712, 24820),