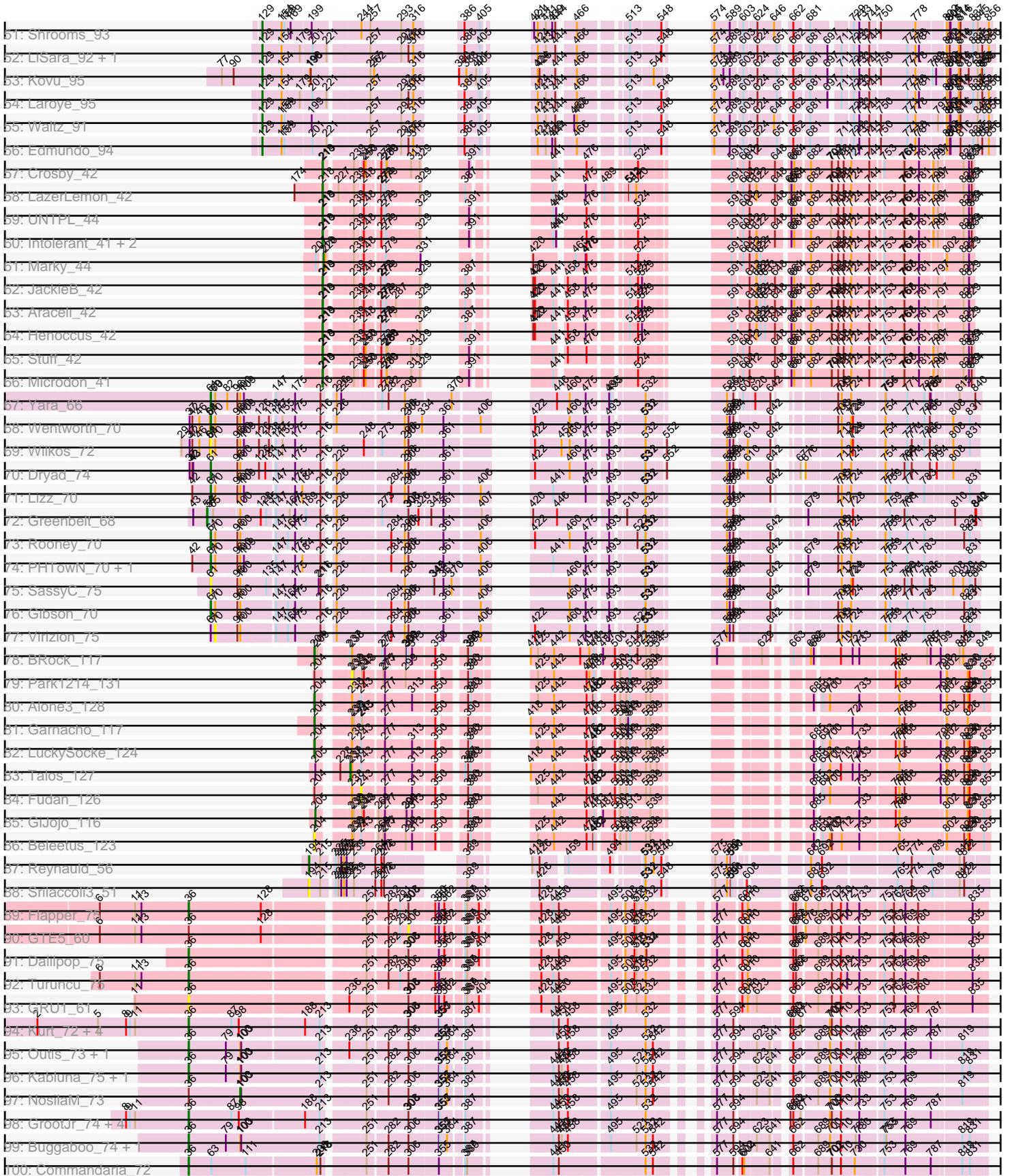


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I01: STE8_60	8 11 16 36 858	188 213 251 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I02: NatB6_72	8 11 16 36 858	188 213 251 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I03: Wheezy_72	19 100	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I04: Mer Cougar_75	19 100	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I05: RedRaider_75	19 100	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I06: Float294_74	19 100	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I07: Ennea_73	19 100	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I08: Lollipop_137	19 100	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I09: Skysand_65	19 100	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I10: Patio_74	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I11: HubbaBubba_67	19 100	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I12: NadineRae_79	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I13: Yndexa_71 + 3	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I14: WinoseManz_91 + 6	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I15: iDyn_69	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I16: Pemberton_73	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I17: Scuba_83	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I18: HomeFry_80	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I19: Fury_82 + 1	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I20: Apiary_72 + 1	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I21: Baxoaddle_72 + 2	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I22: Gagien_70	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I23: MacGully_81	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I24: GIMA7_51 + 3	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I25: GTE7_50	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I26: Dakiti_60 + 1	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I27: RemRem_60 + 4	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I28: RoyalG_59 + 1	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I29: Linetti_59	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I30: Barbochs_57 + 2	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I31: Beaver_62	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I32: Diabla_63	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I33: Butterball_62 + 2	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I34: Breezic_59	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I35: GourdRhymes_59	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I36: BigShaq_59	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I37: Misay19_64 + 1	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I38: Hotorobo_59 + 2	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I39: BillyBobJr_65 + 1	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I40: Squibbies_58	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I41: Jellybones_61	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I42: Sombrero_60	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I43: Crete_60	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I44: Worcestershire_59	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I45: PokyPuppy_58	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I46: PierreThree_58	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I47: Keizog_61	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I48: Eggsie_57	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I49: John316_62	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819
I50: FelixAlejandro_64	9 11 16 36 128 188	238 251 282 308 353 387	423 453 495 532 577 594	682 700 733 769 787 819

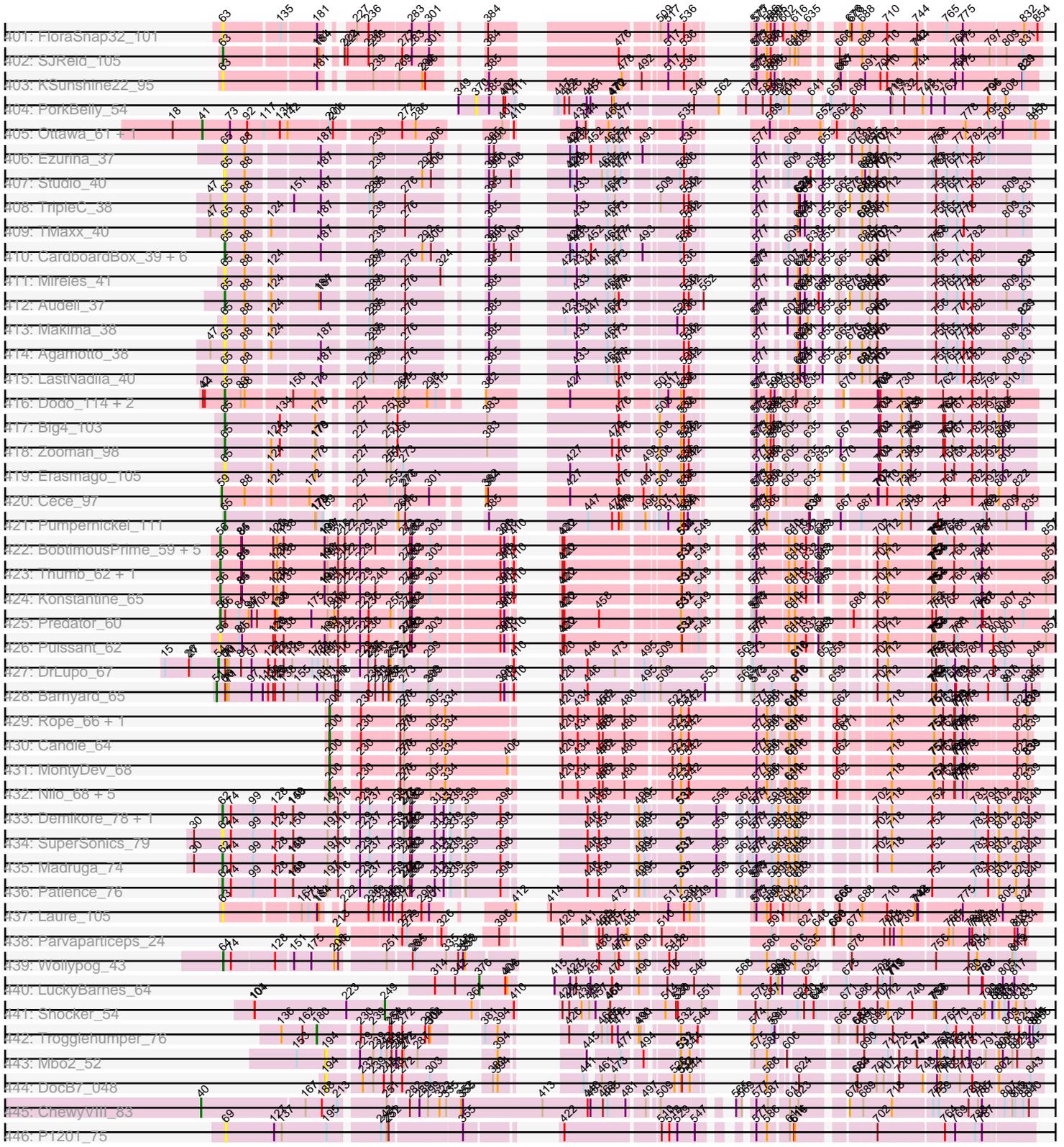
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r51: Adgers_62	72	89	114	133	146	176	221	239	259	300	406	421	441	458	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845	
r52: BenoitCattle_59	72	121	121	133	158	176	221	239	259	300	406	421	441	458	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845	
r53: Bianmat_57 + 3	72	122	122	133	158	176	221	239	259	300	406	421	441	458	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845	
r54: Jormungandi_57 + 5	72	122	122	133	158	176	221	239	259	300	406	421	441	458	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845	
r55: Luker_58	72	122	122	133	158	176	221	239	259	300	406	421	441	458	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845	
r56: Sticker17_57 + 10	72	122	122	133	158	176	221	239	259	300	406	421	441	458	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845	
r57: Woes_57	72	122	122	133	158	176	221	239	259	300	406	421	441	458	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845	
r58: Charanelly_57	72	122	122	133	158	176	221	239	259	300	406	421	441	458	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845	
r59: Kaseim_57	72	122	122	133	158	176	221	239	259	300	406	421	441	458	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845	
r60: Teatealatte_58 + 1	72	122	122	133	158	176	221	239	259	300	406	421	441	458	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845	
r61: Philon9_57	72	122	122	133	158	176	221	239	259	300	406	421	441	458	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845	
r62: Teech_58	72	122	122	133	158	176	221	239	259	300	406	421	441	458	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845	
r63: Niagara_57	72	122	122	133	158	176	221	239	259	300	406	421	441	458	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845	
r64: Katyusha_57 + 1	72	122	122	133	158	176	221	239	259	300	406	421	441	458	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845	
r65: Demosthenes_55	72	122	122	133	158	176	221	239	259	300	406	421	441	458	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845	
r66: Hollow_57	72	122	122	133	158	176	221	239	259	300	406	421	441	458	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845	
r67: Vitaenoi1_57	72	122	122	133	158	176	221	239	259	300	406	421	441	458	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845	
r68: Kvothe_56	72	122	122	133	158	176	221	239	259	300	406	421	441	458	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845	
r69: ASerpRocky_55	72	122	122	133	158	176	221	239	259	300	406	421	441	458	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845	
r70: PatrickStar_58 + 3	72	122	122	133	158	176	221	239	259	300	406	421	441	458	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845	
r71: Gibbles_56	72	122	122	133	158	176	221	239	259	300	406	421	441	458	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845	
r72: Prager_53 + 11	32	38	59	106	121	133	158	176	221	239	259	300	406	421	453	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845
r73: PLOI_53 + 3	32	38	59	106	121	133	158	176	221	239	259	300	406	421	453	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845
r74: Delton_54	32	38	59	106	121	133	158	176	221	239	259	300	406	421	453	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845
r75: Penelope2018_53 + 1	32	38	59	106	121	133	158	176	221	239	259	300	406	421	453	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845
r76: KandZ_52	32	38	59	106	121	133	158	176	221	239	259	300	406	421	453	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845
r77: SuperheroCarly_54	32	38	59	106	121	133	158	176	221	239	259	300	406	421	453	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845
r78: Nova_52	32	38	59	106	121	133	158	176	221	239	259	300	406	421	453	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845
r79: Phalaborwa_53	32	38	59	106	121	133	158	176	221	239	259	300	406	421	453	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845
r80: Hawkeye_56	32	38	59	106	121	133	158	176	221	239	259	300	406	421	453	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845
r81: Fizzle_34	32	38	59	106	121	133	158	176	221	239	259	300	406	421	453	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845
r82: Sapo_34	32	38	59	106	121	133	158	176	221	239	259	300	406	421	453	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845
r83: Ghobes_35	32	38	59	106	121	133	158	176	221	239	259	300	406	421	453	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845
r84: Archimedes_37	32	38	59	106	121	133	158	176	221	239	259	300	406	421	453	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845
r85: GordTnk2_60	32	38	59	106	121	133	158	176	221	239	259	300	406	421	453	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845
r86: Gmalai_55	32	38	59	106	121	133	158	176	221	239	259	300	406	421	453	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845
r87: GordDuk1_59	32	38	59	106	121	133	158	176	221	239	259	300	406	421	453	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845
r88: GMA3_58	32	38	59	106	121	133	158	176	221	239	259	300	406	421	453	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845
r89: Jumbo_57	32	38	59	106	121	133	158	176	221	239	259	300	406	421	453	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845
r90: Camerico_63	32	38	59	106	121	133	158	176	221	239	259	300	406	421	453	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845
r91: BreSize_50 + 5	32	38	59	106	121	133	158	176	221	239	259	300	406	421	453	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845
r92: LhyPad_52	32	38	59	106	121	133	158	176	221	239	259	300	406	421	453	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845
r93: Suzy_49	32	38	59	106	121	133	158	176	221	239	259	300	406	421	453	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845
r94: LittleFelia_57	32	38	59	106	121	133	158	176	221	239	259	300	406	421	453	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845
r95: Phendix_173	32	38	59	106	121	133	158	176	221	239	259	300	406	421	453	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845
r96: GodonK_184	32	38	59	106	121	133	158	176	221	239	259	300	406	421	453	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845
r97: Mareelin_167 + 3	32	38	59	106	121	133	158	176	221	239	259	300	406	421	453	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845
r98: Sixama_168	32	38	59	106	121	133	158	176	221	239	259	300	406	421	453	476	494	531	532	548	583	589	624	688	688	742	766	766	791	845
r99: GMA2_64	32	38	59	106	121	133	158	176	221	239	259	300																		

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Z01: Jalebi_59 + 1	50	86	132	17	26	213	235	350	401	420	441	480	490	511	529	540	586	685	708	742	789	882
Z02: Zany_58	50	86	132	17	26	213	235	350	401	420	441	480	490	511	529	540	586	685	708	742	789	882
Z03: RazorC_60 + 4	50	86	132	17	26	213	235	350	401	420	441	480	490	511	529	540	586	685	708	742	789	882
Z04: NovaSharks_62 + 4	50	86	132	17	26	213	235	350	401	420	441	480	490	511	529	540	586	685	708	742	789	882
Z05: Osterstedt521_60	50	86	132	17	26	213	235	350	401	420	441	480	490	511	529	540	586	685	708	742	789	882
Z06: Lambo_58	50	86	132	17	26	213	235	350	401	420	441	480	490	511	529	540	586	685	708	742	789	882
Z07: Wojtek_56	50	86	132	17	26	213	235	350	401	420	441	480	490	511	529	540	586	685	708	742	789	882
Z08: BirthdayBoy_62	50	86	132	17	26	213	235	350	401	420	441	480	490	511	529	540	586	685	708	742	789	882
Z09: Rukungu_63	50	86	132	17	26	213	235	350	401	420	441	480	490	511	529	540	586	685	708	742	789	882
Z10: Yikes_62	50	86	132	17	26	213	235	350	401	420	441	480	490	511	529	540	586	685	708	742	789	882
Z11: Atephian_60	50	86	132	17	26	213	235	350	401	420	441	480	490	511	529	540	586	685	708	742	789	882
Z12: Fulcrum_60 + 2	50	86	132	17	26	213	235	350	401	420	441	480	490	511	529	540	586	685	708	742	789	882
Z13: Timcus_56	50	86	132	17	26	213	235	350	401	420	441	480	490	511	529	540	586	685	708	742	789	882
Z14: Rota_56	50	86	132	17	26	213	235	350	401	420	441	480	490	511	529	540	586	685	708	742	789	882
Z15: Gibbin_62	50	86	132	17	26	213	235	350	401	420	441	480	490	511	529	540	586	685	708	742	789	882
Z16: Ranch_60	50	86	132	17	26	213	235	350	401	420	441	480	490	511	529	540	586	685	708	742	789	882
Z17: Erutan_60	50	86	132	17	26	213	235	350	401	420	441	480	490	511	529	540	586	685	708	742	789	882
Z18: NoriManre_63 + 1	50	86	132	17	26	213	235	350	401	420	441	480	490	511	529	540	586	685	708	742	789	882
Z19: Liazz_61	50	86	132	17	26	213	235	350	401	420	441	480	490	511	529	540	586	685	708	742	789	882
Z20: MoiGyank_63	50	86	132	17	26	213	235	350	401	420	441	480	490	511	529	540	586	685	708	742	789	882
Z21: DoobyDoo_59	50	86	132	17	26	213	235	350	401	420	441	480	490	511	529	540	586	685	708	742	789	882
Z22: Apeppi_55	50	86	132	17	26	213	235	350	401	420	441	480	490	511	529	540	586	685	708	742	789	882
Z23: GreteLyn_60	50	86	132	17	26	213	235	350	401	420	441	480	490	511	529	540	586	685	708	742	789	882
Z24: Genamy16_63	50	86	132	17	26	213	235	350	401	420	441	480	490	511	529	540	586	685	708	742	789	882
Z25: Sadboi_61	50	86	132	17	26	213	235	350	401	420	441	480	490	511	529	540	586	685	708	742	789	882
Z26: DaviePasture_60	50	86	132	17	26	213	235	350	401	420	441	480	490	511	529	540	586	685	708	742	789	882
Z27: LuckyLeo_57	50	86	132	17	26	213	235	350	401	420	441	480	490	511	529	540	586	685	708	742	789	882
Z28: DumpTruck_58	50	86	132	17	26	213	235	350	401	420	441	480	490	511	529	540	586	685	708	742	789	882
Z29: ParusIarda_59	50	86	132	17	26	213	235	350	401	420	441	480	490	511	529	540	586	685	708	742	789	882
Z30: Xenia2_58	50	86	132	17	26	213	235	350	401	420	441	480	490	511	529	540	586	685	708	742	789	882
Z31: Mercedes_36	120	242	274	310	376	412	441	480	490	511	529	540	586	685	708	742	789	882				
Z32: Greys_41 + 13	120	242	274	310	376	412	441	480	490	511	529	540	586	685	708	742	789	882				
Z33: HankSprout_41	120	242	274	310	376	412	441	480	490	511	529	540	586	685	708	742	789	882				
Z34: McGaleon_43	120	242	274	310	376	412	441	480	490	511	529	540	586	685	708	742	789	882				
Z35: Kale_40	120	242	274	310	376	412	441	480	490	511	529	540	586	685	708	742	789	882				
Z36: KellyGreen_42 + 12	120	242	274	310	376	412	441	480	490	511	529	540	586	685	708	742	789	882				
Z37: Thorongli_41	120	242	274	310	376	412	441	480	490	511	529	540	586	685	708	742	789	882				
Z38: Redfield_40 + 1	120	242	274	310	376	412	441	480	490	511	529	540	586	685	708	742	789	882				
Z39: TatarkaPM_41 + 13	120	242	274	310	376	412	441	480	490	511	529	540	586	685	708	742	789	882				
Z40: Winzigespinne_40	120	242	274	310	376	412	441	480	490	511	529	540	586	685	708	742	789	882				
Z41: Ioannes_41	120	242	274	310	376	412	441	480	490	511	529	540	586	685	708	742	789	882				
Z42: Benjalauen_41 + 11	120	242	274	310	376	412	441	480	490	511	529	540	586	685	708	742	789	882				
Z43: Klimt_41 + 3	120	242	274	310	376	412	441	480	490	511	529	540	586	685	708	742	789	882				
Z44: Espinosa_40 + 7	120	242	274	310	376	412	441	480	490	511	529	540	586	685	708	742	789	882				
Z45: Raccoon_40 + 1	120	242	274	310	376	412	441	480	490	511	529	540	586	685	708	742	789	882				
Z46: HavenFinLeoSun_42	120	242	274	310	376	412	441	480	490	511	529	540	586	685	708	742	789	882				
Z47: CarisSwetik_44	120	242	274	310	376	412	441	480	490	511	529	540	586	685	708	742	789	882				
Z48: Endor_41	120	242	274	310	376	412	441	480	490	511	529	540	586	685	708	742	789	882				
Z49: GoingMerry_42	120	242	274	310	376	412	441	480	490	511	529	540	586	685	708	742	789	882				
Z50: AlexAdier_41 + 4	120	242	274	310	376	412	441	480	490	511	529	540	586	685	708	742	789	882				

Pham 290672



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 290672 Report

This analysis was run 03/28/26 on database version 641.

Pham number 290672 has 746 members, 106 are drafts.

Phages represented in each track:

- Track 1 : Fowlmouth_74
- Track 2 : Cuke_73
- Track 3 : Indlulamithi_65
- Track 4 : MrMiyagi_73
- Track 5 : Onyinye_65, Aikoy_65
- Track 6 : Leopard_64
- Track 7 : Aledel_26, Riovina_26, Eunoia_26, OMalley_26
- Track 8 : Lucy_25
- Track 9 : DreamTeam_25, Gisselle_25, Kittykat_25
- Track 10 : Christian_25
- Track 11 : WonderBoy_25
- Track 12 : Kalizoi_29
- Track 13 : HunterDalle_26, Vulture_26
- Track 14 : Beethoven_29, Vallejo_29, Glenn_29, TattModd_29, Rozby_29, Fluke_29, Riverdale_29, Carpal_29
- Track 15 : EstebanJulior_26, MamaPearl_26
- Track 16 : Oxynfrius_29, Nubia_29
- Track 17 : MrBoss_30
- Track 18 : Misaeng_29
- Track 19 : KingBob_26, Sergei_26, Maria1952_26, Daiboju_26, Temper16_26, Herb_26
- Track 20 : Huntingdon_29, RcigaStruga_29
- Track 21 : BrotherBLo_29
- Track 22 : Chridison_26
- Track 23 : RAP15_29, Cholula_29, MeganNoll_29, Potatoes_29, Jumboset_29, Savage2526_29
- Track 24 : PitaDog_25, Bodacious_25, CristinaYang_25, ChewChew_25, Nancia_25, DrRobert_25
- Track 25 : AppleCider_29
- Track 26 : Wawa_29
- Track 27 : Moki_25
- Track 28 : Joann_29
- Track 29 : Albanese_29
- Track 30 : PartyCup_29
- Track 31 : Urla_26
- Track 32 : Suppi_29, Canowicakte_29, Wayne_29
- Track 33 : Greenhouse_29

- Track 34 : Preamble_25
- Track 35 : GreenHearts_29
- Track 36 : Zorro_29
- Track 37 : PinkFriday_25
- Track 38 : Lakshmi_29
- Track 39 : Litotes_29
- Track 40 : AustinPowers_26
- Track 41 : Korra_30
- Track 42 : Graynor_30
- Track 43 : Bennie_25
- Track 44 : Scuttle_29
- Track 45 : BigMack_25
- Track 46 : LilStuart_25
- Track 47 : Pumancara_25
- Track 48 : Makoto_25
- Track 49 : ApoKipo_99
- Track 50 : Wheelbite_90
- Track 51 : Shrooms_93
- Track 52 : LiSara_92, Salgado_95
- Track 53 : Kovu_95
- Track 54 : Laroye_95
- Track 55 : Waltz_91
- Track 56 : Edmundo_94
- Track 57 : Crosby_42
- Track 58 : LazerLemon_42
- Track 59 : UNTPL_44
- Track 60 : Intolerant_41, Shynx_42, Bogota_43
- Track 61 : Marky_44
- Track 62 : JackieB_42
- Track 63 : Araceli_42
- Track 64 : Henoccus_42
- Track 65 : Stuff_42
- Track 66 : Microdon_41
- Track 67 : Yara_66
- Track 68 : Wentworth_70
- Track 69 : Wilkos_72
- Track 70 : Dryad_74
- Track 71 : Lizz_70
- Track 72 : Greenbelt_68
- Track 73 : Rooney_70
- Track 74 : PHTown_70, ShakeNBake_70
- Track 75 : SassyC_75
- Track 76 : Gibson_70
- Track 77 : Virizion_75
- Track 78 : BRock_117
- Track 79 : Park1214_131
- Track 80 : Alone3_128
- Track 81 : Garnacho_117
- Track 82 : LuckySocke_124
- Track 83 : Talos_127
- Track 84 : Fudan_126
- Track 85 : GiJojo_116
- Track 86 : Beleetus_123

- Track 87 : Reynauld_56
- Track 88 : Srilaccoli3_51
- Track 89 : Flapper_75
- Track 90 : GTE5_60
- Track 91 : Dalilpop_75
- Track 92 : Turuncu_75
- Track 93 : GRU1_61
- Track 94 : Kurt_72, Jifall16_71, KidneyBean_72, Phomeo_71, Emianna_72
- Track 95 : Outis_73, StarStruck_73
- Track 96 : Kabluna_75, Bonum_76
- Track 97 : NosilaM_73
- Track 98 : GrootJr_74, Tracker_72, Arti_71, NovumRegina_72, Foxboro_72
- Track 99 : Buggaboo_74, SuperSulley_74
- Track 100 : Commandaria_72
- Track 101 : GTE8_60
- Track 102 : NatB6_72
- Track 103 : Wheezy_72
- Track 104 : MerCougar_75
- Track 105 : RedRaider_79
- Track 106 : Float294_74
- Track 107 : Ennea_79
- Track 108 : Lollipop1437_76
- Track 109 : Skysand_75
- Track 110 : Patio_74
- Track 111 : HubbaBubba_67
- Track 112 : NadineRae_71
- Track 113 : Yndexa_71, Sukkupi_71, BiPauneto_74
- Track 114 : WhoseManz_71, Marietta_72
- Track 115 : IDyn_69
- Track 116 : Pemberton_73
- Track 117 : Scuba_83
- Track 118 : HomeFry_80
- Track 119 : Fury_82, Pleakley_82
- Track 120 : Apiary_72, Polyuyuki_72
- Track 121 : Braxoaddie_72, Maselop_72, CoffeeBean_72
- Track 122 : Gagieri_70
- Track 123 : MacGully_81
- Track 124 : GMA7_51, Amore2_62, Austin_61, HayZem_62
- Track 125 : GTE7_50
- Track 126 : Dakiti_60, Chelms_59
- Track 127 : RemRem_60, Ekhein_59, Exiguo_58, Flakey_58, Sam12_58
- Track 128 : RoyalG_59, SteveFrench_58
- Track 129 : Linetti_59
- Track 130 : Barbochs_57, CathyBurgh_59, Lizzo_59
- Track 131 : Beaver_62
- Track 132 : Diabla_63
- Track 133 : Butterball_62, BirksAndSocks_64, Boneham_63
- Track 134 : Breezic_59
- Track 135 : GourdThymes_59
- Track 136 : BigShaq_59
- Track 137 : Msay19_64, Poland_64
- Track 138 : Hotorobo_59, Monty_58, Gorko_58
- Track 139 : BillyBobJr_65, CinnamonToast_65

- Track 140 : Squibbles_58
- Track 141 : Jellybones_61
- Track 142 : Sombrero_60
- Track 143 : Crete_60
- Track 144 : Worcestershire_59
- Track 145 : PokyPuppy_58
- Track 146 : PierreThree_58
- Track 147 : Kelzog_61
- Track 148 : Eggsie_57
- Track 149 : John316_62
- Track 150 : FelixAlejandro_64
- Track 151 : Adgers_62
- Track 152 : BenoitCattle_59
- Track 153 : Bianmat_57, Lidong_57, Shelley_57, Jams_57
- Track 154 : Jormungandr_57, Guillaume_57, MrWormie_57, Lahirium_57, Berries_57, Nimi13_57
- Track 155 : Luker_58
- Track 156 : Sticker17_57, Neoevie_57, Damp_57, Hello_57, GalacticEye_57, Teal_57, Minos_58, Anamika_57, Hail2Pitt_56, Newt_58, Harambe_57
- Track 157 : Woes_57
- Track 158 : Charianelly_57
- Track 159 : Kaseim_57
- Track 160 : Teatealatte_58, Tredge_57
- Track 161 : Philon9_57
- Track 162 : Teech_58
- Track 163 : Niagara_57
- Track 164 : Katyusha_57, Benczkowski14_57
- Track 165 : Demosthenes_55
- Track 166 : Hollow_57
- Track 167 : Vitaenoi_57
- Track 168 : Kvothe_56
- Track 169 : ASerpRocky_55
- Track 170 : PatrickStar_58, Orchid_57, Kampe_58, RobinSparkles_61
- Track 171 : Gibbles_56
- Track 172 : Prager_53, Giuseppe_53, Adjutor_52, Chill_55, PBI1_50, WaldoWhy_55, Butterscotch_52, BigMama_51, Visconti_54, Troll4_53, Thoth_53, Mopey_54
- Track 173 : PLOT_53, SirHarley_54, Erk16_52, Gumball_52
- Track 174 : Delton_54
- Track 175 : Penelope2018_53, Helpful_56
- Track 176 : KandZ_52
- Track 177 : SuperheroCarly_54
- Track 178 : Nova_52
- Track 179 : Phalaborwa_53
- Track 180 : Hawkeye_56
- Track 181 : Frizzle_34
- Track 182 : Sapo_34
- Track 183 : Ghobes_35
- Track 184 : Archimedes_37
- Track 185 : GordTnk2_60
- Track 186 : Gmala1_55
- Track 187 : GordDuk1_59
- Track 188 : GMA3_58

- Track 189 : Jumbo_57
- Track 190 : Camerico_63
- Track 191 : BiteSize_50, Terapin_51, Madi_50, Sienna_50, Beyoncage_50, Djokovic_50
- Track 192 : LilyPad_52
- Track 193 : Suzy_49
- Track 194 : LittleFella_57
- Track 195 : Phendrix_173
- Track 196 : GodonK_184
- Track 197 : Mareelih_167, BlueNGold_166, Forza_170, Boopy_169
- Track 198 : Sixama_168
- Track 199 : GMA2_64
- Track 200 : Mima20_60
- Track 201 : Jalebi_59, Sampudon_60
- Track 202 : Zany_58
- Track 203 : RazorC_60, Astralis_60, Charminar_60, Rumi_61, Riduram_61
- Track 204 : NovaSharks_62, Jamemuya19_59, Alyssamiracle_63, Avian_59, Stormer_61
- Track 205 : OtterstedtS21_60
- Track 206 : Lambo_58
- Track 207 : Wojtek_56
- Track 208 : BirthdayBoy_62
- Track 209 : Rukungu_63
- Track 210 : Yikes_62
- Track 211 : Alephilan_60
- Track 212 : Fulcrum_60, LavAbarElk_60, GOATification_60
- Track 213 : Tillicus_56
- Track 214 : Rota_56
- Track 215 : Gibbin_62
- Track 216 : Ranch_60
- Track 217 : Erutan_60
- Track 218 : NorManre_63, Patos_63
- Track 219 : Lila22_61
- Track 220 : MoiGyank_63
- Track 221 : DoobyDoo_59
- Track 222 : Apeppi_55
- Track 223 : GretelLyn_60
- Track 224 : Genamy16_63
- Track 225 : Sadboi_61
- Track 226 : DaviePasture_60
- Track 227 : LuckyLeo_57
- Track 228 : DumpTruck_58
- Track 229 : ParvusTarda_59
- Track 230 : Xenia2_58
- Track 231 : Mercedes_36
- Track 232 : Greys_41, Vispistious_41, Oxtober96_42, Lovelyunicorn_41, Convict_41, AxiPup_41, Velene_41, PuppyEggo_41, Strathdee_41, WildNOut_41, Teagan_41, Knox_41, Den3_41, BonesMcCoy_41
- Track 233 : HankSprout_41
- Track 234 : McGalleon_43
- Track 235 : Kale_40
- Track 236 : KellyGreen_42, Bonino_40, Baines_40, Dave_41, Calix_40, Etta_40, Erla_40, Renzie_41, Superfresh_41, Raptor_41, Antoinette_41, Gelo_40, Ludgate_41

- Track 237 : Thorongil_41
- Track 238 : Redfield_40, Schnapsidee_40
- Track 239 : TatarkaPM_41, Pherferi_41, Inventa_41, ParleG_41, PhredFlintston_41, NickSell_41, Martin_42, Kurt1_41, Rapheph_41, MillyPhilly_41, TinSulphur_42, Phiderman_41, MrWorldwide_41, Shee_41
- Track 240 : Winzigespinne_40
- Track 241 : Ioannes_41
- Track 242 : Benjalauen_41, KannH_40, HungryHenry_40, Chako_40, CoraRita_42, Rog141_40, Clancy_40, Gargoyle_41, StirfryIV_40, Ilzat_40, Jerbirus_42, Gubbabump_40
- Track 243 : Klimt_41, Chamuel_40, SonOfLevi_41, Pocket_40
- Track 244 : Espinosa_40, Exploradora_40, Christoph_40, ManRay_40, JeriBeth_42, Tenda_40, Aubergine_40, Kouch_41
- Track 245 : Raccoon_40, Hamlet_40
- Track 246 : HavenFinLeoSun_42
- Track 247 : CarisSwetlik_44
- Track 248 : Endor_41
- Track 249 : GoingMerry_42
- Track 250 : AlexAdler_41, Janus167_40, Robinson_41, Figueroism_41, Riyhil_41
- Track 251 : Agente005_41
- Track 252 : GardenB_40, GoneGirl_41
- Track 253 : Phriends_41, SoilGremlin_42, SolidSnake_43, Delphidian_41, OldNelly_42, Merida02_43
- Track 254 : Soror1_40, Stormbreaker8_40, KingJulien_40
- Track 255 : PhillyPhantom_40
- Track 256 : FarmerDoug_40
- Track 257 : TeddyBear_40, Gershwin_40, Asta_40, Nattles_40, Oats_40
- Track 258 : BeautPeep30_41, Phireproof_41
- Track 259 : Thompsone_41
- Track 260 : Balsa_40, Peppino_40
- Track 261 : Blage_41, BigRedClifford_41
- Track 262 : HanSolo_40
- Track 263 : Anilorac_41
- Track 264 : Sedgewig_40
- Track 265 : Nagem_41, SJay_41
- Track 266 : Byron23_42, Bandik_41, Stanktossa_41
- Track 267 : Jenos_44
- Track 268 : ShaiHulud_41
- Track 269 : StingRay_40
- Track 270 : Dothraki_41
- Track 271 : JasonD_43
- Track 272 : Acosta_42
- Track 273 : BeeBee8_41
- Track 274 : AranulaLuti_40
- Track 275 : Etna_40
- Track 276 : Zada_42
- Track 277 : RosieMae_40
- Track 278 : Garey24_41
- Track 279 : Duocatuli_40
- Track 280 : Papafritta_40
- Track 281 : Peep_41
- Track 282 : Symere_40
- Track 283 : Alyxandracam_41

- Track 284 : MonChoix_39
- Track 285 : JasperRussell_40
- Track 286 : Leafus_40
- Track 287 : MaeLinda_41
- Track 288 : HairyMan_37
- Track 289 : Mandalorian_39
- Track 290 : Quartz_40, Carostasia_39, Nucci_39
- Track 291 : YuuY_40
- Track 292 : Juanyo_39
- Track 293 : MiniVolent_38
- Track 294 : Tinyman4_39, HerculesXL_40
- Track 295 : Scissor2024_40
- Track 296 : WestPM_37
- Track 297 : Kavo_39
- Track 298 : Schimmels22_39
- Track 299 : Ixel_41
- Track 300 : Penta_37
- Track 301 : ChikPic_40
- Track 302 : Phanita_41
- Track 303 : Xebius_40, Andromedas_40, ColaCorta_40, Glamour_40
- Track 304 : Saratos_40
- Track 305 : Zenitsu_40, MCubed_40
- Track 306 : Eleri_40
- Track 307 : Sansa_39
- Track 308 : Shamu_41
- Track 309 : PSirce_40
- Track 310 : Finny_41
- Track 311 : Pajaza_37, Casey_37, Pikmin_37
- Track 312 : BouleyBill_39
- Track 313 : Koji_39
- Track 314 : Jingles_39
- Track 315 : Guetzie_40, SirVictor_40
- Track 316 : PrincePhergus_39
- Track 317 : Golden_39, Lucky3_39
- Track 318 : Kauala_39
- Track 319 : Sinatra_40, Bustleton_39, Pherbot_39
- Track 320 : RenegadeRaider_42
- Track 321 : LilTerminator_40
- Track 322 : Alakazam_40
- Track 323 : Librie_40, CaptainRex_40, Hasitha_40, Fulton_40
- Track 324 : Clock_40
- Track 325 : QuadZero_39
- Track 326 : Zayuliv_40
- Track 327 : TwoBits_38
- Track 328 : Nebulous_39
- Track 329 : Wardwill_41
- Track 330 : Neferthena_41
- Track 331 : GreenIvy_40
- Track 332 : Zepp_40
- Track 333 : BaronJohn_41
- Track 334 : Luna18_42, KatChan_42
- Track 335 : Juicer_42, Jemerald_42
- Track 336 : Morrigan_42

- Track 337 : WilliamStrong_40
- Track 338 : Chepli_42
- Track 339 : Theresita_31
- Track 340 : Schubert_39
- Track 341 : GaeCeo_42, ChickenKing_40
- Track 342 : Cheeto1_42
- Track 343 : FountainFog_39
- Track 344 : Poultruss_39
- Track 345 : Gilda_40, Rachella_40, OhDear_40, OverHedge_40, Anakin_40, PhunaPhoke_40, AnnaSerena_40, Pharpay_40, Potty_40, Artiphact_40, CoolCookie_40, NarutoRun_40, Kate_41
- Track 346 : Cybele_40, Neptune_40
- Track 347 : Annapurna_40, Crestdrop_40, Hiddenleaf_40, Chivey_40, FreddieHg_40, SilentWarrior_40
- Track 348 : MortySmith_38
- Track 349 : Sparcetus_42
- Track 350 : Dauntless_39, Erudite_39
- Track 351 : Hager_41
- Track 352 : Krampus_40
- Track 353 : Snakehole_40
- Track 354 : TinyMiny_42
- Track 355 : Tongui_40
- Track 356 : RikSengupta_42
- Track 357 : JingleBells_40
- Track 358 : DannyDe_40
- Track 359 : Tedro_40
- Track 360 : Aesir_39, JDawG_39
- Track 361 : Bramble_42
- Track 362 : Rie18_40
- Track 363 : LordBart_42
- Track 364 : Kors_42
- Track 365 : Karate_39
- Track 366 : Ajin_42
- Track 367 : Haunter_40
- Track 368 : Cicada_35, SBlackberry_33
- Track 369 : PermaG_34
- Track 370 : Linayshia_33
- Track 371 : Rasovi_33, Htur_33
- Track 372 : Olympi_35
- Track 373 : Milani_33
- Track 374 : Alove_33, Rootkit7_33, TurboVicky_33
- Track 375 : Johann_34, Goodman_34
- Track 376 : Labella_35, AyoTeo_35, Typher_35
- Track 377 : Sucha_30
- Track 378 : Jera_34
- Track 379 : Benry_32
- Track 380 : IndiRoo_33
- Track 381 : FireCastle_33
- Track 382 : Zanella_33
- Track 383 : Darwin_73, Stickynote_71
- Track 384 : Kimchi1738_73
- Track 385 : C3PO_72, Cruella_72
- Track 386 : Zion_72, PeteyPab_71, PotatoChip_72

- Track 387 : SamW_45, Adelaide_46, Troy_45, Dina_47, Lederberg_45
- Track 388 : StAB_50
- Track 389 : Stiles_49
- Track 390 : Patbob_100
- Track 391 : Ellewin_92
- Track 392 : GoldenEssence_87
- Track 393 : LeoJr_100, Atuin_95, ReginaGlobina_100
- Track 394 : BooTeria_97, WaddleDee_88, DunneganBoMo_90, Artu_93, Emmetator_93
- Track 395 : Talia1610_101, Bloom_105, Racecar_102, Mimi_101, FrostedClock_104
- Track 396 : Rockabye_105
- Track 397 : Phrampa_94
- Track 398 : Chilliams_99
- Track 399 : Panchaali_92
- Track 400 : Stewart25555_92
- Track 401 : FloraSnap32_101
- Track 402 : SJReid_105
- Track 403 : KSunshine22_95
- Track 404 : PorkBelly_54
- Track 405 : Ottawa_61, Kharcho_61
- Track 406 : Ezurina_37
- Track 407 : Studio_40
- Track 408 : TripleC_38
- Track 409 : TMaxx_40
- Track 410 : CardboardBox_39, ChipsNGuac_39, ChamoyPickle_40, Neuville_38, AnnabelLee_38, Roberts_38, Gerri43_39
- Track 411 : Mireles_41
- Track 412 : Audell_37
- Track 413 : Makima_38
- Track 414 : Agamoto_38
- Track 415 : LastNadiia_40
- Track 416 : Dodo_114, A3Wally_114, PauloDiaboli_114
- Track 417 : Big4_103
- Track 418 : Zooman_98
- Track 419 : Erasmago_105
- Track 420 : Cece_97
- Track 421 : Pumpernickel_111
- Track 422 : BobtimousPrime_59, Megatron06_62, Damien_61, Beckerton_60, Cborch11_63, Oaker_60
- Track 423 : Thumb_62, Phreeze_60
- Track 424 : Konstantine_65
- Track 425 : Predator_60
- Track 426 : Puissant_62
- Track 427 : DrLupo_67
- Track 428 : Barnyard_65
- Track 429 : Rope_66, Papyrus_66
- Track 430 : Candle_64
- Track 431 : MontyDev_68
- Track 432 : Nilo_68, Riparian_68, Zenon_68, Send513_66, Yelo_65, Weiss13_66
- Track 433 : Demikore_78, Labelle_76
- Track 434 : SuperSonics_79
- Track 435 : Madrugua_74

- Track 436 : Patience_76
- Track 437 : Laure_105
- Track 438 : Parvapaticeps_24
- Track 439 : Wollypog_43
- Track 440 : LuckyBarnes_64
- Track 441 : Shocker_54
- Track 442 : Trogglehumper_76
- Track 443 : Mbo2_52
- Track 444 : DocB7_048
- Track 445 : ChewyVIII_83
- Track 446 : P1201_75

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

The start number called the most often in the published annotations is 370, it was called in 138 of the 640 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acosta_42, Adelaide_46, Agente005_41, Alakazam_40, AlexAdler_41, Alyxandracam_41, Antoinette_41, AranulaLuti_40, Asta_40, Aubergine_40, AxiPup_41, Baines_40, Balsa_40, Bandik_41, BeautPeep30_41, BeeBee8_41, Benjalauren_41, BigRedClifford_41, Blage_41, BonesMcCoy_41, Bonino_40, Byron23_42, Calix_40, Chako_40, Chamuel_40, Cheeto1_42, ChickenKing_40, Christoph_40, Clancy_40, Clock_40, Convict_41, CoraRita_42, Dave_41, Delphidian_41, Den3_41, Dina_47, Dothraki_41, Duocatuli_40, Endor_41, Erla_40, Espinosa_40, Etna_40, Etta_40, Exploradora_40, FarmerDoug_40, Figueroism_41, GaeCeo_42, GardenB_40, Garey24_41, Gargoyle_41, Gelo_40, Gershwin_40, GoingMerry_42, GoneGirl_41, Greys_41, Gubbabump_40, Hamlet_40, HanSolo_40, HankSprout_41, HavenFinLeoSun_42, HungryHenry_40, Ilzat_40, Inventa_41, Ioannes_41, Janus167_40, JasonD_43, JasperRussell_40, Jerbirus_42, JeriBeth_42, Kale_40, KannH_40, KellyGreen_42, KingJulien_40, Klimt_41, Knox_41, Kouch_41, Kurt1_41, Leafus_40, Lederberg_45, Lovelyunicorn_41, Ludgate_41, MaeLinda_41, ManRay_40, Martin_42, Merida02_43, MillyPhilly_41, MonChoix_39, MrWorldwide_41, Nagem_41, Nattles_40, Nebulous_39, Neferthena_41, NickSell_41, Oats_40, OldNelly_42, Oxtober96_42, Papafritta_40, ParleG_41, Peep_41, Peppino_40, Pherferi_41, Phiderman_41, Phireproof_41, PhredFlintston_41, Phriends_41, Pocket_40, PorkBelly_54, PuppyEggo_41, Raccoon_40, Rapheph_41, Raptor_41, Redfield_40, Renzie_41, Riyhil_41, Robinson_41, Rog141_40, RosieMae_40, SJay_41, SamW_45, Schnapsidee_40, Sedgewig_40, ShaiHulud_41, Shee_41, SoilGremlin_42, SolidSnake_43, SonOfLevi_41, Soror1_40, StAB_50, Stanktossa_41, Stiles_49, StingRay_40, StirfryIV_40, Stormbreaker8_40, Strathdee_41, Superfresh_41, Symere_40, TatarkaPM_41, Teagan_41, TeddyBear_40, Tenda_40, Thompsone_41, Thorongil_41, TinSulphur_42, Troy_45, Velene_41, Vispistious_41, WildNOut_41, Winzigespinne_40, Zada_42,

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

- Adjutor_52, Aesir_39, Ajin_42, Anilorac_41, Annapurna_40, Beyoncage_50, BigMama_51, BiteSize_50, Bramble_42, Butterscotch_52, Chill_55, Chivey_40, Crestdrop_40, DannyDe_40, Dauntless_39, Delton_54, Djokovic_50, Erk16_52, Erudite_39, FountainFog_39, FreddieHg_40, Giuseppe_53, Gumball_52, Hager_41,

Helpful_56, Hiddenleaf_40, JDawG_39, JingleBells_40, KandZ_52, Kors_42, Krampus_40, LilyPad_52, LordBart_42, Madi_50, Mopey_54, MortySmith_38, Nova_52, PBI1_50, PLOT_53, Penelope2018_53, Phalaborwa_53, PhillyPhantom_40, Prager_53, Rie18_40, RikSengupta_42, SassyC_75, Sienna_50, SilentWarrior_40, SirHarley_54, SuperheroCarly_54, Suzy_49, Terapin_51, Thoth_53, TinyMiny_42, Troll4_53, Visconti_54, WaldoWhy_55, Yara_66,

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

- A3Wally_114, ASerpRocky_55, Adgers_62, Agamoto_38, Aikoy_65, Albanese_29, Aledel_26, Alephlan_60, Alone3_128, Alove_33, Alyssamiracle_63, Amore2_62, Anakin_40, Anamika_57, Andromedas_40, AnnaSerena_40, AnnabelLee_38, Apeppi_55, Apiary_72, ApoKipo_99, AppleCider_29, Araceli_42, Archimedes_37, Arti_71, Artiphact_40, Artu_93, Astralis_60, Atuin_95, Audell_37, AustinPowers_26, Austin_61, Avian_59, AyoTeo_35, BRock_117, Barbochs_57, Barnyard_65, BaronJohn_41, Beaver_62, Beckerton_60, Beethoven_29, Beleetus_123, Benczkowski14_57, Bennie_25, BenoitCattle_59, Benry_32, Berries_57, BiPauneto_74, Bianmat_57, Big4_103, BigMack_25, BigShaq_59, BillyBobJr_65, BirksAndSocks_64, BirthdayBoy_62, Bloom_105, BlueNGold_166, BobtimousPrime_59, Bodacious_25, Bogota_43, Boneham_63, Bonum_76, BooTeria_97, Boopy_169, BouleyBill_39, Braxoaddie_72, Breezic_59, BrotherBLO_29, Buggaboo_74, Bustleton_39, Butterball_62, C3PO_72, Camerico_63, Candle_64, Canowicakte_29, CaptainRex_40, CardboardBox_39, CarisSwetlik_44, Carostasia_39, Carpal_29, Casey_37, CathyBurgh_59, Cborch11_63, Cece_97, ChamoyPickle_40, Charianelly_57, Charminar_60, Chelms_59, Chepli_42, ChewChew_25, ChewyVIII_83, ChikPic_40, Chilliams_99, ChipsNGuac_39, Cholula_29, Chridison_26, Christian_25, Cicada_35, CinnamonToast_65, CoffeeBean_72, ColaCorta_40, Commandaria_72, CoolCookie_40, Crete_60, CristinaYang_25, Crosby_42, Cruella_72, Cuke_73, Cybele_40, Daiboju_26, Dakiti_60, Dalilpop_75, Damien_61, Damp_57, Darwin_73, DaviePasture_60, Demikore_78, Demosthenes_55, Diabla_63, DocB7_048, Dodo_114, DoobyDoo_59, DrLupo_67, DrRobert_25, DreamTeam_25, Dryad_74, DumpTruck_58, DunneganBoMo_90, Edmundo_94, Eggsie_57, Ekhein_59, Eleri_40, Ellewin_92, Emianna_72, Emmetator_93, Ennea_79, Erasmago_105, Erutan_60, EstebanJulior_26, Eunoia_26, Exiguo_58, Ezurina_37, FelixAlejandro_64, Finny_41, FireCastle_33, Flakey_58, Flapper_75, Float294_74, FloraSnap32_101, Fluke_29, Forza_170, Fowlmouth_74, Foxboro_72, Frizzle_34, FrostedClock_104, Fudan_126, Fulcrum_60, Fulton_40, Fury_82, GMA2_64, GMA3_58, GMA7_51, GOATification_60, GRU1_61, GTE5_60, GTE7_50, GTE8_60, Gagieri_70, GalacticEye_57, Garnacho_117, Genamy16_63, Gerri43_39, Ghobes_35, GiJojo_116, Gibbin_62, Gibbles_56, Gibson_70, Gilda_40, Gisselle_25, Glamour_40, Glenn_29, Gmala1_55, GodonK_184, GoldenEssence_87, Golden_39, Goodman_34, GordDuk1_59, GordTnk2_60, Gorko_58, GourdThymes_59, Graynor_30, GreenHearts_29, Greenlvy_40, Greenbelt_68, Greenhouse_29, Gretellyn_60, GrootJr_74, Guetzie_40, Guillaume_57, Hail2Pitt_56, HairyMan_37, Harambe_57, Hasitha_40, Haunter_40, Hawkeye_56, HayZem_62, Hello_57, Henoccus_42, Herb_26, HerculesXL_40, Hollow_57, HomeFry_80, Hotorobo_59, Htur_33, HubbaBubba_67, HunterDalle_26, Huntingdon_29, IDyn_69, IndiRoo_33, Indlulamithi_65, Intolerant_41, Ixel_41, JackieB_42, Jalebi_59, Jamemuya19_59, Jams_57, Jellybones_61, Jemerald_42, Jenos_44, Jera_34, Jifall16_71, Jingles_39, Joann_29, Johann_34, John316_62, Jormungandr_57, Juanyo_39, Juicer_42, Jumbo_57, Jumboset_29, KSunshine22_95, Kabluna_75, Kalizoi_29, Kampe_58, Karate_39, Kaseim_57, KatChan_42, Kate_41, Katyusha_57, Kauala_39, Kavo_39, Kelzog_61, Kharcho_61, KidneyBean_72, Kimchi1738_73, KingBob_26, Kittykat_25,

Koji_39, Konstantine_65, Korra_30, Kovu_95, Kurt_72, Kvothe_56, Labela_35, Labelle_76, Lahirium_57, Lakshmi_29, Lambo_58, Laroye_95, LastNadiia_40, Laure_105, LavAbarElk_60, LazerLemon_42, LeoJr_100, Leopard_64, LiSara_92, Librie_40, Lidong_57, LilStuart_25, LilTerminator_40, Lila22_61, Linayshia_33, Linetti_59, Litotes_29, LittleFella_57, Lizz_70, Lizzo_59, Lollipop1437_76, Lucky3_39, LuckyBarnes_64, LuckyLeo_57, LuckySocke_124, Lucy_25, Luker_58, Luna18_42, MCubed_40, MacGully_81, Madruga_74, Makima_38, Makoto_25, MamaPearl_26, Mandalorian_39, Mareelih_167, Maria1952_26, Marietta_72, Marky_44, Maselop_72, Mbo2_52, McGalleon_43, MeganNoll_29, Megatron06_62, MerCougar_75, Mercedes_36, Microdon_41, Milani_33, Mima20_60, Mimi_101, MiniVolent_38, Minos_58, Mireles_41, Misaeng_29, MoiGyank_63, Moki_25, MontyDev_68, Monty_58, Morrigan_42, MrBoss_30, MrMiyagi_73, MrWormie_57, Msay19_64, NadineRae_71, Nancia_25, NarutoRun_40, NatB6_72, Neoevie_57, Neptune_40, Neuville_38, Newt_58, Niagara_57, Nilo_68, Nimi13_57, NorManre_63, NosilaM_73, NovaSharks_62, NovumRegina_72, Nubia_29, Nucci_39, OMalley_26, Oaker_60, OhDear_40, Olympi_35, Onyinye_65, Orchid_57, Ottawa_61, OtterstedtS21_60, Outis_73, OverHedge_40, Oxynfrius_29, P1201_75, PHTown_70, PSirce_40, Pajaza_37, Panchaali_92, Papyrus_66, Park1214_131, PartyCup_29, Parvuparticeps_24, ParvusTarda_59, Patbob_100, Patience_76, Patio_74, Patos_63, PatrickStar_58, PauloDiaboli_114, Pemberton_73, Penta_37, PermaG_34, PeteyPab_71, Phanita_41, Pharpay_40, Phendrix_173, Pherbot_39, Philon9_57, Phomeo_71, Phrampa_94, Phreeze_60, PhunaPhoke_40, PierreThree_58, Pikmin_37, PinkFriday_25, PitaDog_25, Pleakley_82, PokyPuppy_58, Poland_64, Polyyuki_72, PotatoChip_72, Potatoes_29, Potty_40, Poultruss_39, Preamble_25, Predator_60, PrincePhergus_39, Puissant_62, Pumancara_25, Pumpnickel_111, QuadZero_39, Quartz_40, RAP15_29, Racecar_102, Rachella_40, Ranch_60, Rasovi_33, RazorC_60, RcigaStruga_29, RedRaider_79, ReginaGlobina_100, RemRem_60, RenegadeRaider_42, Reynauld_56, Riduram_61, Riovina_26, Riparian_68, Riverdale_29, Roberts_38, RobinSparkles_61, Rockabye_105, Rooney_70, Rootkit7_33, Rope_66, Rota_56, RoyalG_59, Rozby_29, Rukungu_63, Rumi_61, SBlackberry_33, SJReid_105, Sadboi_61, Salgado_95, Sam12_58, Sampudon_60, Sansa_39, Sapo_34, Saratos_40, Savage2526_29, Schimmels22_39, Schubert_39, Scissor2024_40, Scuba_83, Scuttle_29, Send513_66, Sergei_26, ShakeNBake_70, Shamu_41, Shelley_57, Shocker_54, Shrooms_93, Shynx_42, Sinatra_40, SirVictor_40, Sixama_168, Skysand_75, Snakehole_40, Sombrero_60, Sparcetus_42, Squibbles_58, Srilacoli3_51, StarStruck_73, SteveFrench_58, Stewart25555_92, Sticker17_57, Stickynote_71, Stormer_61, Studio_40, Stuff_42, Sucha_30, Sukkupi_71, SuperSonics_79, SuperSulley_74, Suppi_29, TMaxx_40, Talia1610_101, Talos_127, TattModd_29, Teal_57, Teatealatte_58, Tedro_40, Teech_58, Temper16_26, Theresita_31, Thumb_62, Tillicus_56, Tinyman4_39, Tongui_40, Tracker_72, Tredge_57, TripleC_38, Trogglehumper_76, TurboVicky_33, Turuncu_75, TwoBits_38, Typher_35, UNTPL_44, Urla_26, Vallejo_29, Virizion_75, Vitaenoi_57, Vulture_26, WaddleDee_88, Waltz_91, Wardwill_41, Wawa_29, Wayne_29, Weiss13_66, Wentworth_70, WestPM_37, Wheelbite_90, Wheezy_72, WhoseManz_71, Wilkos_72, WilliamStrong_40, Woes_57, Wojtek_56, Wollypog_43, WonderBoy_25, Worcestershire_59, Xebius_40, Xenia2_58, Yelo_65, Yikes_62, Yndexa_71, YuuY_40, Zanella_33, Zany_58, Zayuliv_40, Zenitsu_40, Zenon_68, Zepp_40, Zion_72, Zooman_98, Zorro_29,

Summary by start number:

Start 33:

- Found in 15 of 746 (2.0%) of genes in pham
- Manual Annotations of this start: 1 of 640
- Called 6.7% of time when present
- Phage (with cluster) where this start called: TinyMiny_42 (EF),

Start 36:

- Found in 46 of 746 (6.2%) of genes in pham
- Manual Annotations of this start: 34 of 640
- Called 80.4% of time when present
- Phage (with cluster) where this start called: Arti_71 (CR2), Bonum_76 (CR2), Buggaboo_74 (CR2), Commandaria_72 (CR2), Dalilpop_75 (CR1), Emianna_72 (CR2), Ennea_79 (CR3), Flapper_75 (CR1), Float294_74 (CR3), Foxboro_72 (CR2), Fury_82 (CR5), GRU1_61 (CR1), GrootJr_74 (CR2), HomeFry_80 (CR5), HubbaBubba_67 (CR4), IDyn_69 (CR4), Jifall16_71 (CR2), Kabluna_75 (CR2), KidneyBean_72 (CR2), Kurt_72 (CR2), Lollipop1437_76 (CR3), Marietta_72 (CR4), MerCougar_75 (CR2), NadineRae_71 (CR4), NovumRegina_72 (CR2), Outis_73 (CR2), Patio_74 (CR3), Phomeo_71 (CR2), Pleakley_82 (CR5), RedRaider_79 (CR3), Scuba_83 (CR5), Skysand_75 (CR3), StarStruck_73 (CR2), SuperSulley_74 (CR2), Tracker_72 (CR2), Turuncu_75 (CR1), WhoseManz_71 (CR4),

Start 37:

- Found in 9 of 746 (1.2%) of genes in pham
- Manual Annotations of this start: 6 of 640
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Apiary_72 (CR6), Braxoaddie_72 (CR6), CoffeeBean_72 (CR6), Gagieri_70 (CR6), Maselop_72 (CR6), Polyuyuki_72 (CR6),

Start 39:

- Found in 1 of 746 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 640
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MacGully_81 (CR7),

Start 40:

- Found in 1 of 746 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 640
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ChewyVIII_83 (singleton),

Start 41:

- Found in 2 of 746 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 640
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kharcho_61 (FM), Ottawa_61 (FM),

Start 45:

- Found in 1 of 746 (0.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SuperheroCarly_54 (D1),

Start 51:

- Found in 1 of 746 (0.1%) of genes in pham

- Manual Annotations of this start: 1 of 640
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Barnyard_65 (H2),

Start 52:

- Found in 1 of 746 (0.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phalaborwa_53 (D1),

Start 53:

- Found in 1 of 746 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 640
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hawkeye_56 (D2),

Start 54:

- Found in 2 of 746 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 640
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DrLupo_67 (H2), Greenbelt_68 (BN),

Start 55:

- Found in 43 of 746 (5.8%) of genes in pham
- Manual Annotations of this start: 13 of 640
- Called 34.9% of time when present
- Phage (with cluster) where this start called: Alyssamiracle_63 (DV), Avian_59 (DV), Genamy16_63 (DV), Gibbin_62 (DV), GretelLyn_60 (DV), Jalebi_59 (DV), Jamemuya19_59 (DV), LuckyLeo_57 (DV), NovaSharks_62 (DV), ParvusTarda_59 (DV), Rota_56 (DV), Sampudon_60 (DV), Stormer_61 (DV), Wojtek_56 (DV), Zany_58 (DV),

Start 56:

- Found in 77 of 746 (10.3%) of genes in pham
- Manual Annotations of this start: 54 of 640
- Called 77.9% of time when present
- Phage (with cluster) where this start called: Adjutor_52 (D1), Aikoy_65 (AE), Alephilan_60 (DV), Apeppi_55 (DV), Astralis_60 (DV), Beckerton_60 (H1), BigMama_51 (D1), BirthdayBoy_62 (DV), BobtimousPrime_59 (H1), Butterscotch_52 (D1), Cborch11_63 (H1), Charminar_60 (DV), Chill_55 (D1), Damien_61 (H1), DaviePasture_60 (DV), Delton_54 (D1), DoobyDoo_59 (DV), Erk16_52 (D1), Erutan_60 (DV), Fulcrum_60 (DV), GOATification_60 (DV), Giuseppe_53 (D1), Gumball_52 (D1), Helpful_56 (D1), KandZ_52 (D1), Konstantine_65 (H1), Lambo_58 (DV), LavAbarElk_60 (DV), Leopard_64 (AE), Lila22_61 (DV), Megatron06_62 (H1), Mima20_60 (DV), MoiGyank_63 (DV), Mopey_54 (D1), NorManre_63 (DV), Nova_52 (D1), Oaker_60 (H1), Onyinye_65 (AE), OtterstedtS21_60 (DV), PBI1_50 (D1), PLOT_53 (D1), Patos_63 (DV), Penelope2018_53 (D1), Phreeze_60 (H1), Prager_53 (D1), Predator_60 (H1), Puissant_62 (H1), Ranch_60 (DV), RazorC_60 (DV), Riduram_61 (DV), Rukungu_63 (DV), Rumi_61 (DV), Sadboi_61 (DV), SirHarley_54 (D1), Thoth_53 (D1), Thumb_62 (H1), Troll4_53 (D1), Visconti_54 (D1), WaldoWhy_55 (D1), Yikes_62 (DV),

Start 58:

- Found in 4 of 746 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 640
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Tillicus_56 (DV),

Start 59:

- Found in 1 of 746 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 640
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cece_97 (GD3),

Start 61:

- Found in 11 of 746 (1.5%) of genes in pham
- Manual Annotations of this start: 8 of 640
- Called 90.9% of time when present
- Phage (with cluster) where this start called: Dryad_74 (BN), Gibson_70 (BN), Lizz_70 (BN), PHTowN_70 (BN), Rooney_70 (BN), SassyC_75 (BN), ShakeNBake_70 (BN), Wentworth_70 (BN), Wilkos_72 (BN), Yara_66 (BN),

Start 62:

- Found in 10 of 746 (1.3%) of genes in pham
- Manual Annotations of this start: 8 of 640
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BlueNGold_166 (DS), Boopy_169 (DS), Demikore_78 (U), Forza_170 (DS), Labelle_76 (U), Madruga_74 (U), Mareelih_167 (DS), Patience_76 (U), Sixama_168 (DS), SuperSonics_79 (U),

Start 63:

- Found in 28 of 746 (3.8%) of genes in pham
- Manual Annotations of this start: 11 of 640
- Called 92.9% of time when present
- Phage (with cluster) where this start called: Artu_93 (FC), Atuin_95 (FC), Bloom_105 (FC), BooTeria_97 (FC), Chilliams_99 (FC), DunneganBoMo_90 (FC), Ellewin_92 (FC), Emmetator_93 (FC), FloraSnap32_101 (FC), FrostedClock_104 (FC), GMA2_64 (DS), GoldenEssence_87 (FC), KSunshine22_95 (FC), Laure_105 (UNK), LeoJr_100 (FC), Mimi_101 (FC), Panchaali_92 (FC), Patbob_100 (FC), Phrampa_94 (FC), Racecar_102 (FC), ReginaGlobina_100 (FC), Rockabye_105 (FC), SJReid_105 (FC), Stewart25555_92 (FC), Talia1610_101 (FC), WaddleDee_88 (FC),

Start 64:

- Found in 1 of 746 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 640
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Wollypog_43 (singleton),

Start 65:

- Found in 27 of 746 (3.6%) of genes in pham
- Manual Annotations of this start: 9 of 640
- Called 92.6% of time when present
- Phage (with cluster) where this start called: A3Wally_114 (GD1), Agamoto_38 (FR), AnnabelLee_38 (FR), Audell_37 (FR), Big4_103 (GD2), CardboardBox_39 (FR), ChamoyPickle_40 (FR), ChipsNGuac_39 (FR), Dodo_114 (GD1), Erasmago_105 (GD2), Ezurina_37 (FR), Gerri43_39 (FR), GodonK_184 (DK), LastNadiia_40 (FR),

Makima_38 (FR), Mireles_41 (FR), Neuville_38 (FR), PauloDiaboli_114 (GD1), Phendrix_173 (DK), Pumpernickel_111 (GD4), Roberts_38 (FR), Studio_40 (FR), TMaxx_40 (FR), TripleC_38 (FR), Zooman_98 (GD2),

Start 67:

- Found in 1 of 746 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 640
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LittleFella_57 (DG2),

Start 68:

- Found in 38 of 746 (5.1%) of genes in pham
- Manual Annotations of this start: 34 of 640
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aesir_39 (EF), Anakin_40 (EF), AnnaSerena_40 (EF), Annapurna_40 (EF), Artiphact_40 (EF), Chivey_40 (EF), CoolCookie_40 (EF), Crestdrop_40 (EF), Cybele_40 (EF), DannyDe_40 (EF), Dauntless_39 (EF), Erudite_39 (EF), FountainFog_39 (EF), FreddieHg_40 (EF), Gilda_40 (EF), Hager_41 (EF), Haunter_40 (EF), Hiddenleaf_40 (EF), JDawG_39 (EF), JingleBells_40 (EF), Karate_39 (EF), Kate_41 (EF), Krampus_40 (EF), MortySmith_38 (EF), NarutoRun_40 (EF), Neptune_40 (EF), OhDear_40 (EF), OverHedge_40 (EF), Pharpay_40 (EF), PhunaPhoke_40 (EF), Potty_40 (EF), Poultruss_39 (EF), Rachella_40 (EF), Rie18_40 (EF), SilentWarrior_40 (EF), Snakehole_40 (EF), Tedro_40 (EF), Tongui_40 (EF),

Start 69:

- Found in 10 of 746 (1.3%) of genes in pham
- Manual Annotations of this start: 8 of 640
- Called 90.0% of time when present
- Phage (with cluster) where this start called: C3PO_72 (EN), Cruella_72 (EN), Darwin_73 (EN), Kimchi1738_73 (EN), P1201_75 (singleton), PeteyPab_71 (EN), PotatoChip_72 (EN), StickyNote_71 (EN), Zion_72 (EN),

Start 70:

- Found in 69 of 746 (9.2%) of genes in pham
- Manual Annotations of this start: 16 of 640
- Called 24.6% of time when present
- Phage (with cluster) where this start called: Ajin_42 (EF), BeyonCage_50 (DG1), BiteSize_50 (DG1), Bramble_42 (EF), Djokovic_50 (DG1), DumpTruck_58 (DV), Kors_42 (EF), LilyPad_52 (DG1), LordBart_42 (EF), Madi_50 (DG1), RikSengupta_42 (EF), Sienna_50 (DG1), Sparcetus_42 (EF), Suzy_49 (DG1), Terapin_51 (DG1), Virizion_75 (BN), Xenia2_58 (DV),

Start 87:

- Found in 13 of 746 (1.7%) of genes in pham
- Manual Annotations of this start: 2 of 640
- Called 23.1% of time when present
- Phage (with cluster) where this start called: GTE8_60 (CR2), NatB6_72 (CR2), Wheezy_72 (CR2),

Start 95:

- Found in 12 of 746 (1.6%) of genes in pham
- Manual Annotations of this start: 9 of 640

- Called 75.0% of time when present
- Phage (with cluster) where this start called: Benczkowski14_57 (CS4), Hollow_57 (CS4), Katyusha_57 (CS4), Niagara_57 (CS4), Philon9_57 (CS4), Teatealatte_58 (CS4), Teech_58 (CS4), Tredge_57 (CS4), Vitaenoi_57 (CS4),

Start 98:

- Found in 16 of 746 (2.1%) of genes in pham
- Manual Annotations of this start: 3 of 640
- Called 18.8% of time when present
- Phage (with cluster) where this start called: Cuke_73 (AC), Fowlmouth_74 (AC), MrMiyagi_73 (AC),

Start 99:

- Found in 17 of 746 (2.3%) of genes in pham
- Manual Annotations of this start: 2 of 640
- Called 11.8% of time when present
- Phage (with cluster) where this start called: Demosthenes_55 (CS4), Kvothe_56 (CS4),

Start 100:

- Found in 20 of 746 (2.7%) of genes in pham
- Manual Annotations of this start: 1 of 640
- Called 5.0% of time when present
- Phage (with cluster) where this start called: NosilaM_73 (CR2),

Start 106:

- Found in 24 of 746 (3.2%) of genes in pham
- Manual Annotations of this start: 1 of 640
- Called 4.2% of time when present
- Phage (with cluster) where this start called: Indlulamithi_65 (AC),

Start 116:

- Found in 5 of 746 (0.7%) of genes in pham
- Manual Annotations of this start: 3 of 640
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amore2_62 (CS1), Austin_61 (CS1), GMA7_51 (CS1), GTE7_50 (CS1), HayZem_62 (CS1),

Start 126:

- Found in 23 of 746 (3.1%) of genes in pham
- Manual Annotations of this start: 3 of 640
- Called 13.0% of time when present
- Phage (with cluster) where this start called: BiPauneto_74 (CR4), Sukkupi_71 (CR4), Yndexa_71 (CR4),

Start 128:

- Found in 65 of 746 (8.7%) of genes in pham
- No Manual Annotations of this start.
- Called 1.5% of time when present
- Phage (with cluster) where this start called: Pemberton_73 (CR4),

Start 129:

- Found in 9 of 746 (1.2%) of genes in pham

- Manual Annotations of this start: 9 of 640
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ApoKipo_99 (AL), Edmundo_94 (AL), Kovu_95 (AL), Laroye_95 (AL), LiSara_92 (AL), Salgado_95 (AL), Shrooms_93 (AL), Waltz_91 (AL), Wheelbite_90 (AL),

Start 148:

- Found in 5 of 746 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 640
- Called 20.0% of time when present
- Phage (with cluster) where this start called: ASerpRocky_55 (CS4),

Start 158:

- Found in 66 of 746 (8.8%) of genes in pham
- Manual Annotations of this start: 3 of 640
- Called 7.6% of time when present
- Phage (with cluster) where this start called: BillyBobJr_65 (CS2), Charianelly_57 (CS3), CinnamonToast_65 (CS2), Eggsie_57 (CS2), Woes_57 (CS3),

Start 174:

- Found in 3 of 746 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 640
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Luker_58 (CS3),

Start 176:

- Found in 41 of 746 (5.5%) of genes in pham
- Manual Annotations of this start: 28 of 640
- Called 73.2% of time when present
- Phage (with cluster) where this start called: Adgers_62 (CS2), Barbochs_57 (CS2), Beaver_62 (CS2), BigShaq_59 (CS2), BirksAndSocks_64 (CS2), Boneham_63 (CS2), Breezic_59 (CS2), Butterball_62 (CS2), CathyBurgh_59 (CS2), Ekhein_59 (CS2), Exiguo_58 (CS2), FelixAlejandro_64 (CS2), Flakey_58 (CS2), Gorko_58 (CS2), GourdThymes_59 (CS2), Hotorobo_59 (CS2), Jellybones_61 (CS2), John316_62 (CS2), Kelzog_61 (CS2), Lizzo_59 (CS2), Monty_58 (CS2), Msay19_64 (CS2), Poland_64 (CS2), RemRem_60 (CS2), RoyalG_59 (CS2), Sam12_58 (CS2), Sombrero_60 (CS2), Squibbles_58 (CS2), SteveFrench_58 (CS2), Worcestershire_59 (CS2),

Start 180:

- Found in 1 of 746 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 640
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Trogglehumper_76 (singleton),

Start 185:

- Found in 1 of 746 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 640
- Called 100.0% of time when present
- Phage (with cluster) where this start called: PokyPuppy_58 (CS2),

Start 186:

- Found in 3 of 746 (0.4%) of genes in pham

- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gmala1_55 (DF1), GordDuk1_59 (DF1), GordTnk2_60 (DF1),

Start 192:

- Found in 5 of 746 (0.7%) of genes in pham
- Manual Annotations of this start: 5 of 640
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gibbles_56 (CX), Kampe_58 (CX), Orchid_57 (CX), PatrickStar_58 (CX), RobinSparkles_61 (CX),

Start 194:

- Found in 8 of 746 (1.1%) of genes in pham
- Manual Annotations of this start: 3 of 640
- Called 87.5% of time when present
- Phage (with cluster) where this start called: Camerico_63 (DF4), DocB7_048 (singleton), GMA3_58 (DF2), Jumbo_57 (DF3), Mbo2_52 (singleton), Reynauld_56 (CH), Srilaccoli3_51 (CH),

Start 200:

- Found in 10 of 746 (1.3%) of genes in pham
- Manual Annotations of this start: 9 of 640
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Candle_64 (R), MontyDev_68 (R), Nilo_68 (R), Papyrus_66 (R), Riparian_68 (R), Rope_66 (R), Send513_66 (R), Weiss13_66 (R), Yelo_65 (R), Zenon_68 (R),

Start 204:

- Found in 7 of 746 (0.9%) of genes in pham
- Manual Annotations of this start: 4 of 640
- Called 71.4% of time when present
- Phage (with cluster) where this start called: Alone3_128 (BS), BRock_117 (BS), Beleetus_123 (BS), Garnacho_117 (BS), LuckySocke_124 (BS),

Start 205:

- Found in 2 of 746 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 640
- Called 50.0% of time when present
- Phage (with cluster) where this start called: GiJojo_116 (BS),

Start 212:

- Found in 76 of 746 (10.2%) of genes in pham
- Manual Annotations of this start: 74 of 640
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Albanese_29 (AK), Aledel_26 (AK), AppleCider_29 (AK), AustinPowers_26 (AK), Beethoven_29 (AK), Bennie_25 (AK), BigMack_25 (AK), Bodacious_25 (AK), BrotherBLo_29 (AK), Canowicakte_29 (AK), Carpal_29 (AK), ChewChew_25 (AK), Cholula_29 (AK), Chridison_26 (AK), Christian_25 (AK), CristinaYang_25 (AK), Daiboju_26 (AK), DrRobert_25 (AK), DreamTeam_25 (AK), EstebanJulior_26 (AK), Eunoia_26 (AK), FireCastle_33 (EJ), Fluke_29 (AK), Gisselle_25 (AK), Glenn_29 (AK), Graynor_30 (AK), GreenHearts_29 (AK), Greenhouse_29 (AK), Herb_26 (AK), HunterDalle_26 (AK), Huntingdon_29

(AK), Joann_29 (AK), Jumboset_29 (AK), Kalizoi_29 (AK), KingBob_26 (AK), Kittykat_25 (AK), Korra_30 (AK), Lakshmi_29 (AK), LilStuart_25 (AK), Litotes_29 (AK), Lucy_25 (AK), Makoto_25 (AK), MamaPearl_26 (AK), Maria1952_26 (AK), MeganNoll_29 (AK), Misaeng_29 (AK), Moki_25 (AK), MrBoss_30 (AK), Nancia_25 (AK), Nubia_29 (AK), OMalley_26 (AK), Oxynfrius_29 (AK), PartyCup_29 (AK), PinkFriday_25 (AK), PitaDog_25 (AK), Potatoes_29 (AK), Preamble_25 (AK), Pumancara_25 (AK), RAP15_29 (AK), RcigaStruga_29 (AK), Riovina_26 (AK), Riverdale_29 (AK), Rozby_29 (AK), Savage2526_29 (AK), Scuttle_29 (AK), Sergei_26 (AK), Suppi_29 (AK), TattModd_29 (AK), Temper16_26 (AK), Urla_26 (AK), Vallejo_29 (AK), Vulture_26 (AK), Wawa_29 (AK), Wayne_29 (AK), WonderBoy_25 (AK), Zorro_29 (AK),

Start 213:

- Found in 35 of 746 (4.7%) of genes in pham
- No Manual Annotations of this start.
- Called 2.9% of time when present
- Phage (with cluster) where this start called: Parvaparticeps_24 (UNK),

Start 215:

- Found in 4 of 746 (0.5%) of genes in pham
- Manual Annotations of this start: 2 of 640
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Benry_32 (EJ), Milani_33 (EJ),

Start 217:

- Found in 20 of 746 (2.7%) of genes in pham
- Manual Annotations of this start: 16 of 640
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alove_33 (EJ), AyoTeo_35 (EJ), Cicada_35 (EJ), Goodman_34 (EJ), Htur_33 (EJ), IndiRoo_33 (EJ), Jera_34 (EJ), Johann_34 (EJ), Labella_35 (EJ), Linayshia_33 (EJ), Olympi_35 (EJ), PermaG_34 (EJ), Rasovi_33 (EJ), Rootkit7_33 (EJ), SBlackberry_33 (EJ), Sucha_30 (EJ), Theresita_31 (EA7), TurboVicky_33 (EJ), Typher_35 (EJ), Zanella_33 (EJ),

Start 218:

- Found in 13 of 746 (1.7%) of genes in pham
- Manual Annotations of this start: 13 of 640
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Araceli_42 (BH), Archimedes_37 (DA), Bogota_43 (BH), Crosby_42 (BH), Henoccus_42 (BH), Intolerant_41 (BH), JackieB_42 (BH), LazerLemon_42 (BH), Microdon_41 (BH), Sapo_34 (DA), Shynx_42 (BH), Stuff_42 (BH), UNTPL_44 (BH),

Start 219:

- Found in 13 of 746 (1.7%) of genes in pham
- Manual Annotations of this start: 3 of 640
- Called 23.1% of time when present
- Phage (with cluster) where this start called: Frizzle_34 (DA), Ghobes_35 (DA), Marky_44 (BH),

Start 227:

- Found in 67 of 746 (9.0%) of genes in pham
- Manual Annotations of this start: 28 of 640

- Called 43.3% of time when present
- Phage (with cluster) where this start called: Anamika_57 (CS3), BenoitCattle_59 (CS2), Berries_57 (CS3), Bianmat_57 (CS3), Chelms_59 (CS2), Crete_60 (CS2), Dakiti_60 (CS2), Damp_57 (CS3), Diabla_63 (CS2), GalacticEye_57 (CS3), Guillaume_57 (CS3), Hail2Pitt_56 (CS3), Harambe_57 (CS3), Hello_57 (CS3), Jams_57 (CS3), Jormungandr_57 (CS3), Kaseim_57 (CS3), Lahirium_57 (CS3), Lidong_57 (CS3), Linetti_59 (CS2), Minos_58 (CS3), MrWormie_57 (CS3), Neoevie_57 (CS3), Newt_58 (CS3), Nimi13_57 (CS3), PierreThree_58 (CS2), Shelley_57 (CS3), Sticker17_57 (CS3), Teal_57 (CS3),

Start 237:

- Found in 14 of 746 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 640
- Called 7.1% of time when present
- Phage (with cluster) where this start called: Talos_127 (BS),

Start 238:

- Found in 9 of 746 (1.2%) of genes in pham
- No Manual Annotations of this start.
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Park1214_131 (BS),

Start 243:

- Found in 27 of 746 (3.6%) of genes in pham
- No Manual Annotations of this start.
- Called 3.7% of time when present
- Phage (with cluster) where this start called: Fudan_126 (BS),

Start 249:

- Found in 4 of 746 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 640
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Shocker_54 (singleton),

Start 306:

- Found in 169 of 746 (22.7%) of genes in pham
- No Manual Annotations of this start.
- Called 0.6% of time when present
- Phage (with cluster) where this start called: GTE5_60 (CR1),

Start 316:

- Found in 21 of 746 (2.8%) of genes in pham
- No Manual Annotations of this start.
- Called 4.8% of time when present
- Phage (with cluster) where this start called: Anilorac_41 (EA1),

Start 326:

- Found in 14 of 746 (1.9%) of genes in pham
- No Manual Annotations of this start.
- Called 7.1% of time when present
- Phage (with cluster) where this start called: CarisSwetlik_44 (EA1),

Start 366:

- Found in 5 of 746 (0.7%) of genes in pham
- Manual Annotations of this start: 2 of 640
- Called 60.0% of time when present
- Phage (with cluster) where this start called: BouleyBill_39 (EA4), Jingles_39 (EA4), Kauala_39 (EA4),

Start 368:

- Found in 3 of 746 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 640
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kav0_39 (EA11), Penta_37 (EA11), WestPM_37 (EA11),

Start 369:

- Found in 1 of 746 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 640
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Schubert_39 (EA8),

Start 370:

- Found in 207 of 746 (27.7%) of genes in pham
- Manual Annotations of this start: 138 of 640
- Called 72.0% of time when present
- Phage (with cluster) where this start called: Acosta_42 (EA1), Adelaide_46 (EP), Agente005_41 (EA1), Alakazam_40 (EA5), AlexAdler_41 (EA1), Alyxandracam_41 (EA1), Antoinette_41 (EA1), AranulaLuti_40 (EA1), Asta_40 (EA1), Aubergine_40 (EA1), AxiPup_41 (EA1), Baines_40 (EA1), Balsa_40 (EA1), Bandik_41 (EA1), BeautPeep30_41 (EA1), BeeBee8_41 (EA1), Benjalauen_41 (EA1), BigRedClifford_41 (EA1), Blage_41 (EA1), BonesMcCoy_41 (EA1), Bonino_40 (EA1), Byron23_42 (EA1), Calix_40 (EA1), Chako_40 (EA1), Chamuel_40 (EA1), Cheeto1_42 (EA9), ChickenKing_40 (EA9), Christoph_40 (EA1), Clancy_40 (EA1), Clock_40 (EA5), Convict_41 (EA1), CoraRita_42 (EA1), Dave_41 (EA1), Delphidian_41 (EA1), Den3_41 (EA1), Dina_47 (EP), Dothraki_41 (EA1), Duocatuli_40 (EA1), Endor_41 (EA1), Erla_40 (EA1), Espinosa_40 (EA1), Etna_40 (EA1), Etta_40 (EA1), Exploradora_40 (EA1), FarmerDoug_40 (EA1), Figueroism_41 (EA1), GaeCe0_42 (EA9), GardenB_40 (EA1), Garey24_41 (EA1), Gargoyle_41 (EA1), Gelo_40 (EA1), Gershwin_40 (EA1), GoingMerry_42 (EA1), GoneGirl_41 (EA1), Greys_41 (EA1), Gubbabump_40 (EA1), Hamlet_40 (EA1), HanSolo_40 (EA1), HankSprout_41 (EA1), HavenFinLeoSun_42 (EA1), HungryHenry_40 (EA1), Ilzat_40 (EA1), Inventa_41 (EA1), Ioannes_41 (EA1), Janus167_40 (EA1), JasonD_43 (EA1), JasperRussell_40 (EA1), Jerbirus_42 (EA1), JeriBeth_42 (EA1), Kale_40 (EA1), KannH_40 (EA1), KellyGreen_42 (EA1), KingJulien_40 (EA1), Klimt_41 (EA1), Knox_41 (EA1), Kouch_41 (EA1), Kurt1_41 (EA1), Leafus_40 (EA1), Lederberg_45 (EP), Lovelyunicorn_41 (EA1), Ludgate_41 (EA1), MaeLinda_41 (EA1), ManRay_40 (EA1), Martin_42 (EA1), Merida02_43 (EA1), MillyPhilly_41 (EA1), MonChoix_39 (EA1), MrWorldwide_41 (EA1), Nagem_41 (EA1), Nattles_40 (EA1), Nebulous_39 (EA5), Neferthena_41 (EA5), NickSell_41 (EA1), Oats_40 (EA1), OldNelly_42 (EA1), Oxtober96_42 (EA1), Papafritta_40 (EA1), ParleG_41 (EA1), Peep_41 (EA1), Peppino_40 (EA1), Pherferi_41 (EA1), Phiderman_41 (EA1), Phireproof_41 (EA1), PhredFlintston_41 (EA1), Phriends_41 (EA1), Pocket_40 (EA1), PorkBelly_54 (FJ), PuppyEggo_41 (EA1), Raccoon_40 (EA1), Rapphep_41 (EA1), Raptor_41 (EA1), Redfield_40 (EA1), Renzie_41 (EA1), Rihhil_41 (EA1), Robinson_41 (EA1), Rog141_40 (EA1), RosieMae_40 (EA1), SJay_41 (EA1),

SamW_45 (EP), Schnapsidee_40 (EA1), Sedgewig_40 (EA1), ShaiHulud_41 (EA1), Shee_41 (EA1), SoilGremlin_42 (EA1), SolidSnake_43 (EA1), SonOfLevi_41 (EA1), Soror1_40 (EA1), StAB_50 (EP), Stanktossa_41 (EA1), Stiles_49 (EP), StingRay_40 (EA1), StirfryIV_40 (EA1), Stormbreaker8_40 (EA1), Strathdee_41 (EA1), Superfresh_41 (EA1), Symere_40 (EA1), TatarkaPM_41 (EA1), Teagan_41 (EA1), TeddyBear_40 (EA1), Tenda_40 (EA1), Thompsone_41 (EA1), Thorongil_41 (EA1), TinSulphur_42 (EA1), Troy_45 (EP), Velene_41 (EA1), Vispistious_41 (EA1), WildNOut_41 (EA1), Winzigespinne_40 (EA1), Zada_42 (EA1),

Start 372:

- Found in 27 of 746 (3.6%) of genes in pham
- Manual Annotations of this start: 8 of 640
- Called 29.6% of time when present
- Phage (with cluster) where this start called: Bustleton_39 (EA4), Golden_39 (EA4), Koji_39 (EA4), Lucky3_39 (EA4), Phanita_41 (EA2), Pherbot_39 (EA4), PrincePhergus_39 (EA4), Sinatra_40 (EA4),

Start 373:

- Found in 28 of 746 (3.8%) of genes in pham
- Manual Annotations of this start: 21 of 640
- Called 82.1% of time when present
- Phage (with cluster) where this start called: CaptainRex_40 (EA5), Chepli_42 (EA6), Fulton_40 (EA5), Greenlvy_40 (EA5), Hasitha_40 (EA5), HerculesXL_40 (EA11), Jemerald_42 (EA6), Jenos_44 (EA1), Juicer_42 (EA6), KatChan_42 (EA6), Librie_40 (EA5), LilTerminator_40 (EA5), Luna18_42 (EA6), McGalleon_43 (EA1), Mercedes_36 (EA), QuadZero_39 (EA5), Schimmels22_39 (EA11), Scissor2024_40 (EA11), Tinyman4_39 (EA11), Wardwill_41 (EA5), WilliamStrong_40 (EA6), Zayuliv_40 (EA5), Zepp_40 (EA5),

Start 374:

- Found in 1 of 746 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 640
- Called 100.0% of time when present
- Phage (with cluster) where this start called: HairyMan_37 (EA10),

Start 375:

- Found in 1 of 746 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 640
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Morrigan_42 (EA6),

Start 376:

- Found in 41 of 746 (5.5%) of genes in pham
- Manual Annotations of this start: 23 of 640
- Called 61.0% of time when present
- Phage (with cluster) where this start called: Andromedas_40 (EA2), Carostasia_39 (EA10), Casey_37 (EA3), ChikPic_40 (EA2), ColaCorta_40 (EA2), Eleri_40 (EA2), Glamour_40 (EA2), Guetzie_40 (EA4), Juanyo_39 (EA10), LuckyBarnes_64 (singleton), MCubed_40 (EA2), Mandalorian_39 (EA10), MiniVolent_38 (EA10), Nucci_39 (EA10), PSirce_40 (EA2), Pajaza_37 (EA3), Pikmin_37 (EA3), Quartz_40 (EA10), Sansa_39 (EA2), Saratos_40 (EA2), Shamu_41 (EA2), SirVictor_40 (EA4), Xebius_40 (EA2), YuuY_40 (EA10), Zenitsu_40 (EA2),

Start 385:

- Found in 160 of 746 (21.4%) of genes in pham
- No Manual Annotations of this start.
- Called 0.6% of time when present
- Phage (with cluster) where this start called: BaronJohn_41 (EA5),

Start 387:

- Found in 80 of 746 (10.7%) of genes in pham
- Manual Annotations of this start: 1 of 640
- Called 1.2% of time when present
- Phage (with cluster) where this start called: Finny_41 (EA2),

Start 409:

- Found in 6 of 746 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 640
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Ixel_41 (EA11), TwoBits_38 (EA5),

Start 419:

- Found in 173 of 746 (23.2%) of genes in pham
- No Manual Annotations of this start.
- Called 1.2% of time when present
- Phage (with cluster) where this start called: PhillyPhantom_40 (EA1), RenegadeRaider_42 (EA4),

Summary by clusters:

There are 62 clusters represented in this pham: GD1, GD2, GD3, GD4, DK, EA9, FJ, BN, BH, singleton, DA, FC, BS, DV, DG1, DS, UNK, CH, FR, EP, DF1, DF3, DF2, FM, CS4, CS1, CS3, CS2, AC, EN, AE, EJ, AK, EF, EA, AL, DG2, EA8, R, U, EA1, EA11, EA3, EA2, EA5, EA4, EA7, EA6, CR2, CR3, CR1, CR6, EA10, CR4, CR5, H2, CR7, H1, CX, DF4, D2, D1,

Info for manual annotations of cluster AC:

- Start number 98 was manually annotated 3 times for cluster AC.
- Start number 106 was manually annotated 1 time for cluster AC.

Info for manual annotations of cluster AE:

- Start number 56 was manually annotated 3 times for cluster AE.

Info for manual annotations of cluster AK:

- Start number 212 was manually annotated 73 times for cluster AK.

Info for manual annotations of cluster AL:

- Start number 129 was manually annotated 9 times for cluster AL.

Info for manual annotations of cluster BH:

- Start number 218 was manually annotated 11 times for cluster BH.
- Start number 219 was manually annotated 1 time for cluster BH.

Info for manual annotations of cluster BN:

- Start number 54 was manually annotated 1 time for cluster BN.
- Start number 61 was manually annotated 8 times for cluster BN.

Info for manual annotations of cluster BS:

- Start number 204 was manually annotated 4 times for cluster BS.
- Start number 205 was manually annotated 1 time for cluster BS.
- Start number 237 was manually annotated 1 time for cluster BS.

Info for manual annotations of cluster CH:

- Start number 194 was manually annotated 1 time for cluster CH.

Info for manual annotations of cluster CR1:

- Start number 36 was manually annotated 3 times for cluster CR1.

Info for manual annotations of cluster CR2:

- Start number 36 was manually annotated 18 times for cluster CR2.
- Start number 87 was manually annotated 2 times for cluster CR2.
- Start number 100 was manually annotated 1 time for cluster CR2.

Info for manual annotations of cluster CR3:

- Start number 36 was manually annotated 6 times for cluster CR3.

Info for manual annotations of cluster CR4:

- Start number 36 was manually annotated 5 times for cluster CR4.
- Start number 126 was manually annotated 3 times for cluster CR4.

Info for manual annotations of cluster CR5:

- Start number 36 was manually annotated 2 times for cluster CR5.

Info for manual annotations of cluster CR6:

- Start number 37 was manually annotated 6 times for cluster CR6.

Info for manual annotations of cluster CR7:

- Start number 39 was manually annotated 1 time for cluster CR7.

Info for manual annotations of cluster CS1:

- Start number 116 was manually annotated 3 times for cluster CS1.

Info for manual annotations of cluster CS2:

- Start number 158 was manually annotated 1 time for cluster CS2.
- Start number 176 was manually annotated 28 times for cluster CS2.
- Start number 185 was manually annotated 1 time for cluster CS2.
- Start number 227 was manually annotated 6 times for cluster CS2.

Info for manual annotations of cluster CS3:

- Start number 158 was manually annotated 2 times for cluster CS3.
- Start number 174 was manually annotated 1 time for cluster CS3.
- Start number 227 was manually annotated 22 times for cluster CS3.

Info for manual annotations of cluster CS4:

- Start number 95 was manually annotated 9 times for cluster CS4.
- Start number 99 was manually annotated 2 times for cluster CS4.
- Start number 148 was manually annotated 1 time for cluster CS4.

Info for manual annotations of cluster CX:

- Start number 192 was manually annotated 5 times for cluster CX.

Info for manual annotations of cluster D1:

- Start number 56 was manually annotated 21 times for cluster D1.

Info for manual annotations of cluster D2:

- Start number 53 was manually annotated 1 time for cluster D2.

Info for manual annotations of cluster DA:

- Start number 218 was manually annotated 2 times for cluster DA.
- Start number 219 was manually annotated 2 times for cluster DA.

Info for manual annotations of cluster DF3:

- Start number 194 was manually annotated 1 time for cluster DF3.

Info for manual annotations of cluster DF4:

- Start number 194 was manually annotated 1 time for cluster DF4.

Info for manual annotations of cluster DG1:

- Start number 70 was manually annotated 8 times for cluster DG1.

Info for manual annotations of cluster DG2:

- Start number 67 was manually annotated 1 time for cluster DG2.

Info for manual annotations of cluster DK:

- Start number 65 was manually annotated 2 times for cluster DK.

Info for manual annotations of cluster DS:

- Start number 62 was manually annotated 5 times for cluster DS.

Info for manual annotations of cluster DV:

- Start number 55 was manually annotated 13 times for cluster DV.
- Start number 56 was manually annotated 21 times for cluster DV.
- Start number 58 was manually annotated 1 time for cluster DV.
- Start number 70 was manually annotated 2 times for cluster DV.

Info for manual annotations of cluster EA:

- Start number 373 was manually annotated 1 time for cluster EA.

Info for manual annotations of cluster EA1:

- Start number 370 was manually annotated 124 times for cluster EA1.
- Start number 373 was manually annotated 2 times for cluster EA1.

Info for manual annotations of cluster EA10:

- Start number 374 was manually annotated 1 time for cluster EA10.
- Start number 376 was manually annotated 6 times for cluster EA10.

Info for manual annotations of cluster EA11:

- Start number 368 was manually annotated 1 time for cluster EA11.
- Start number 373 was manually annotated 3 times for cluster EA11.
- Start number 409 was manually annotated 1 time for cluster EA11.

Info for manual annotations of cluster EA2:

- Start number 372 was manually annotated 1 time for cluster EA2.
- Start number 376 was manually annotated 11 times for cluster EA2.
- Start number 387 was manually annotated 1 time for cluster EA2.

Info for manual annotations of cluster EA3:

- Start number 376 was manually annotated 3 times for cluster EA3.

Info for manual annotations of cluster EA4:

- Start number 366 was manually annotated 2 times for cluster EA4.
- Start number 372 was manually annotated 7 times for cluster EA4.
- Start number 376 was manually annotated 2 times for cluster EA4.

Info for manual annotations of cluster EA5:

- Start number 370 was manually annotated 4 times for cluster EA5.
- Start number 373 was manually annotated 9 times for cluster EA5.

Info for manual annotations of cluster EA6:

- Start number 373 was manually annotated 6 times for cluster EA6.
- Start number 375 was manually annotated 1 time for cluster EA6.

Info for manual annotations of cluster EA7:

- Start number 217 was manually annotated 1 time for cluster EA7.

Info for manual annotations of cluster EA8:

- Start number 369 was manually annotated 1 time for cluster EA8.

Info for manual annotations of cluster EA9:

- Start number 370 was manually annotated 3 times for cluster EA9.

Info for manual annotations of cluster EF:

- Start number 33 was manually annotated 1 time for cluster EF.
- Start number 68 was manually annotated 34 times for cluster EF.
- Start number 70 was manually annotated 6 times for cluster EF.

Info for manual annotations of cluster EJ:

- Start number 212 was manually annotated 1 time for cluster EJ.
- Start number 215 was manually annotated 2 times for cluster EJ.
- Start number 217 was manually annotated 15 times for cluster EJ.

Info for manual annotations of cluster EN:

- Start number 69 was manually annotated 8 times for cluster EN.

Info for manual annotations of cluster EP:

- Start number 370 was manually annotated 7 times for cluster EP.

Info for manual annotations of cluster FC:

- Start number 63 was manually annotated 11 times for cluster FC.

Info for manual annotations of cluster FM:

- Start number 41 was manually annotated 2 times for cluster FM.

Info for manual annotations of cluster FR:

- Start number 65 was manually annotated 2 times for cluster FR.

Info for manual annotations of cluster GD1:

- Start number 65 was manually annotated 2 times for cluster GD1.

Info for manual annotations of cluster GD2:

- Start number 65 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:

- Start number 59 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:

- Start number 65 was manually annotated 1 time for cluster GD4.

Info for manual annotations of cluster H1:

- Start number 56 was manually annotated 9 times for cluster H1.

Info for manual annotations of cluster H2:

- Start number 51 was manually annotated 1 time for cluster H2.
- Start number 54 was manually annotated 1 time for cluster H2.

Info for manual annotations of cluster R:

- Start number 200 was manually annotated 9 times for cluster R.

Info for manual annotations of cluster U:

- Start number 62 was manually annotated 3 times for cluster U.

Gene Information:

Gene: A3Wally_114 Start: 79188, Stop: 77338, Start Num: 65

Candidate Starts for A3Wally_114:

(42, 79257), (44, 79251), (Start: 65 @79188 has 9 MA's), (83, 79143), (88, 79131), (150, 79005), (178, 78942), (Start: 227 @78867 has 28 MA's), (268, 78759), (275, 78741), (298, 78672), (315, 78645), (382, 78585), (427, 78420), (476, 78276), (507, 78189), (517, 78162), (532, 78126), (536, 78117), (575, 78060), (577, 78054), (590, 78009), (595, 77997), (605, 77976), (618, 77952), (635, 77916), (670, 77871), (702, 77787), (703, 77784), (704, 77778), (730, 77715), (762, 77613), (782, 77526), (792, 77484), (810, 77433),

Gene: ASerpRocky_55 Start: 52672, Stop: 51098, Start Num: 148

Candidate Starts for ASerpRocky_55:

(Start: 95 @52804 has 9 MA's), (Start: 99 @52792 has 2 MA's), (140, 52693), (Start: 148 @52672 has 1 MA's), (178, 52606), (229, 52507), (239, 52471), (243, 52447), (248, 52438), (251, 52429), (272, 52381), (282, 52357), (296, 52315), (308, 52300), (388, 52225), (419, 52165), (420, 52162), (441, 52096), (445, 52093), (465, 52057), (466, 52054), (475, 52027), (478, 52015), (493, 51967), (511, 51934), (519, 51910), (532, 51886), (544, 51862), (583, 51796), (624, 51697), (668, 51598), (683, 51565), (684, 51562), (743, 51445), (744, 51442), (761, 51385), (765, 51367), (791, 51250), (792, 51247), (798, 51235), (845, 51136), (855, 51115),

Gene: Acosta_42 Start: 31547, Stop: 30141, Start Num: 370

Candidate Starts for Acosta_42:

(262, 31790), (324, 31649), (326, 31646), (328, 31643), (Start: 370 @31547 has 138 MA's), (419, 31400), (421, 31394), (463, 31277), (474, 31250), (490, 31190), (499, 31163), (501, 31160), (503, 31157), (538, 31064), (550, 31022), (590, 30860), (594, 30851), (601, 30830), (603, 30824), (658, 30731), (670, 30695), (680, 30671), (703, 30596), (743, 30482), (755, 30422), (762, 30398), (764, 30392), (766, 30380), (802, 30257), (810, 30230), (820, 30203),

Gene: Adelaide_46 Start: 37262, Stop: 38638, Start Num: 370

Candidate Starts for Adelaide_46:

(Start: 370 @37262 has 138 MA's), (400, 37331), (406, 37349), (426, 37442), (448, 37502), (451, 37508), (453, 37511), (486, 37631), (492, 37649), (543, 37766), (579, 37904), (590, 37943), (601, 37976), (603, 37982), (610, 37997), (626, 38036), (665, 38096), (675, 38120), (690, 38156), (715, 38225), (719, 38231), (748, 38312), (769, 38408), (772, 38420), (775, 38432), (787, 38489), (789, 38495), (796, 38507), (806, 38537), (825, 38588),

Gene: Adgers_62 Start: 52192, Stop: 50660, Start Num: 176

Candidate Starts for Adgers_62:

(72, 52447), (89, 52396), (133, 52291), (145, 52261), (Start: 158 @52228 has 3 MA's), (164, 52219), (Start: 176 @52192 has 28 MA's), (239, 52024), (251, 51982), (259, 51964), (272, 51934), (277, 51922), (282, 51910), (283, 51904), (288, 51883), (421, 51715), (462, 51628), (465, 51613), (470, 51601), (478, 51571), (532, 51442), (548, 51400), (574, 51382), (575, 51379), (578, 51370), (583, 51352), (624, 51265), (684, 51130), (688, 51115), (694, 51094), (743, 51013), (744, 51010), (761, 50953), (762, 50947), (765, 50935), (777, 50884), (782, 50860), (791, 50821), (797, 50809), (798, 50806), (837, 50713), (845, 50698),

Gene: Adjutor_52 Start: 39669, Stop: 41612, Start Num: 56

Candidate Starts for Adjutor_52:

(Start: 56 @39669 has 54 MA's), (74, 39696), (Start: 106 @39768 has 1 MA's), (127, 39822), (151, 39882), (159, 39900), (163, 39909), (187, 39960), (208, 40002), (226, 40038), (251, 40125), (291, 40218), (299, 40233), (313, 40254), (Start: 370 @40356 has 138 MA's), (385, 40389), (394, 40413), (422, 40473), (455, 40560), (476, 40635), (511, 40725), (532, 40776), (534, 40779), (569, 40869), (577, 40887), (586, 40920), (610, 40974), (616, 40986), (626, 41004), (662, 41067), (700, 41151), (743, 41268), (753, 41316), (769, 41379), (787, 41463),

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

Candidate Starts for Aesir_39:

(17, 25417), (Start: 68 @25591 has 34 MA's), (96, 25654), (109, 25675), (128, 25729), (191, 25864), (216, 25906), (231, 25951), (298, 26125), (306, 26134), (355, 26224), (Start: 370 @26266 has 138 MA's), (378, 26281), (443, 26467), (490, 26602), (493, 26614), (510, 26647), (547, 26740), (577, 26776), (611, 26866), (626, 26893), (753, 27202), (754, 27205), (768, 27265), (788, 27355), (802, 27385), (815, 27427), (840, 27478),

Gene: Agamotto_38 Start: 29155, Stop: 27347, Start Num: 65

Candidate Starts for Agamotto_38:

(47, 29200), (Start: 65 @29155 has 9 MA's), (88, 29095), (124, 29032), (187, 28894), (Start: 237 @28777 has 1 MA's), (239, 28765), (276, 28681), (385, 28543), (433, 28357), (465, 28264), (473, 28243), (536, 28072), (542, 28057), (577, 28009), (622, 27940), (625, 27934), (631, 27919), (655, 27880), (665, 27871), (676, 27853), (687, 27817), (688, 27814), (695, 27796), (701, 27778), (702, 27775), (756, 27622), (765, 27589), (771, 27562), (776, 27541), (782, 27514), (809, 27424), (831, 27373),

Gene: Agente005_41 Start: 31381, Stop: 29990, Start Num: 370

Candidate Starts for Agente005_41:

(Start: 370 @31381 has 138 MA's), (419, 31234), (421, 31228), (422, 31225), (463, 31111), (490, 31024), (499, 30997), (501, 30994), (538, 30898), (550, 30856), (594, 30685), (601, 30664), (612, 30637), (632, 30589), (670, 30529), (743, 30316), (747, 30298), (762, 30232), (764, 30226), (766, 30214), (789, 30118), (810, 30064), (811, 30061), (836, 30007),

Gene: Aikoy_65 Start: 45786, Stop: 47714, Start Num: 56

Candidate Starts for Aikoy_65:

(Start: 56 @45786 has 54 MA's), (71, 45807), (82, 45837), (Start: 126 @45936 has 3 MA's), (151, 45999), (184, 46071), (188, 46080), (216, 46128), (299, 46344), (313, 46365), (330, 46386), (333, 46389), (340, 46401), (353, 46428), (404, 46551), (422, 46587), (446, 46659), (451, 46668), (462, 46701), (478, 46758), (481, 46770), (511, 46839), (514, 46848), (522, 46866), (532, 46890), (573, 46986), (577, 46998), (586, 47031), (604, 47073), (635, 47136), (692, 47241), (764, 47457), (768, 47481), (769, 47484), (780, 47526), (785, 47556), (794, 47580), (848, 47697),

Gene: Ajin_42 Start: 26641, Stop: 28575, Start Num: 70

Candidate Starts for Ajin_42:

(14, 26401), (Start: 33 @26545 has 1 MA's), (66, 26635), (Start: 70 @26641 has 16 MA's), (128, 26788), (135, 26806), (138, 26815), (216, 26965), (259, 27091), (298, 27181), (306, 27190), (355, 27280), (Start: 370 @27322 has 138 MA's), (382, 27352), (427, 27484), (493, 27670), (502, 27688), (510, 27703), (532, 27760), (573, 27820), (599, 27892), (667, 28030), (692, 28096), (701, 28126), (731, 28204), (754, 28282), (768, 28342), (779, 28381), (788, 28432), (799, 28450), (842, 28558),

Gene: Alakazam_40 Start: 30804, Stop: 29374, Start Num: 370

Candidate Starts for Alakazam_40:

(Start: 370 @30804 has 138 MA's), (383, 30771), (421, 30651), (422, 30648), (441, 30588), (461, 30537), (469, 30516), (473, 30504), (499, 30411), (501, 30408), (548, 30276), (576, 30153), (594, 30096), (601, 30075), (612, 30048), (615, 30036), (626, 30015), (653, 29958), (658, 29937), (670, 29901), (676, 29889), (689, 29847), (696, 29820), (702, 29805), (725, 29742), (731, 29730), (753, 29634), (756, 29625), (761, 29610), (762, 29604), (764, 29598), (794, 29481), (802, 29463), (805, 29451), (820, 29409),

Gene: Albanese_29 Start: 22144, Stop: 23535, Start Num: 212

Candidate Starts for Albanese_29:

(Start: 212 @22144 has 74 MA's), (240, 22231), (279, 22303), (280, 22306), (303, 22369), (306, 22372), (320, 22390), (323, 22396), (385, 22423), (422, 22480), (435, 22531), (462, 22570), (473, 22606), (477, 22624), (489, 22660), (495, 22681), (508, 22699), (523, 22732), (545, 22771), (577, 22813), (585, 22840), (593, 22864), (610, 22900), (612, 22906), (627, 22939), (633, 22954), (637, 22963), (659, 23008), (670, 23041), (671, 23044), (702, 23128), (708, 23149), (712, 23161), (721, 23179), (753, 23269), (760, 23290), (761, 23293), (766, 23317), (767, 23326), (789, 23413), (823, 23503), (834, 23527),

Gene: Aledel_26 Start: 21745, Stop: 23139, Start Num: 212

Candidate Starts for Aledel_26:

(Start: 212 @21745 has 74 MA's), (232, 21802), (269, 21889), (279, 21907), (280, 21910), (320, 21994), (385, 22027), (420, 22078), (422, 22084), (441, 22144), (462, 22174), (473, 22210), (477, 22228), (495, 22285), (508, 22303), (510, 22309), (523, 22336), (577, 22417), (585, 22444), (593, 22468), (601, 22483), (612, 22510), (627, 22543), (633, 22558), (690, 22690), (700, 22726), (708, 22753), (712, 22765), (721, 22783), (753, 22873), (755, 22879), (760, 22894), (761, 22897), (767, 22930), (782, 22990), (789, 23017), (809, 23074), (823, 23107), (834, 23131),

Gene: Alephilan_60 Start: 40725, Stop: 42638, Start Num: 56

Candidate Starts for Alephilan_60:

(19, 40599), (22, 40608), (23, 40620), (34, 40653), (Start: 55 @40722 has 13 MA's), (Start: 56 @40725 has 54 MA's), (Start: 70 @40737 has 16 MA's), (86, 40785), (105, 40818), (171, 40977), (184, 41004), (188, 41013), (226, 41085), (271, 41202), (273, 41205), (295, 41268), (312, 41295), (350, 41358), (361, 41385), (420, 41514), (427, 41538), (441, 41580), (460, 41628), (465, 41649), (473, 41670), (490, 41727), (495, 41745), (511, 41781), (529, 41823), (549, 41883), (586, 41979), (587, 41982), (708, 42210), (743, 42300), (753, 42336), (755, 42342), (768, 42396), (779, 42435), (808, 42537), (813, 42552), (822, 42573),

Gene: AlexAdler_41 Start: 31109, Stop: 29721, Start Num: 370

Candidate Starts for AlexAdler_41:

(274, 31331), (Start: 370 @31109 has 138 MA's), (419, 30965), (421, 30959), (422, 30956), (463, 30842), (474, 30815), (490, 30755), (499, 30728), (501, 30725), (538, 30629), (550, 30587), (594, 30416), (601, 30395), (606, 30380), (612, 30368), (632, 30320), (670, 30260), (702, 30164), (725, 30101), (743, 30047), (762, 29963), (764, 29957), (766, 29945), (789, 29849), (810, 29795), (811, 29792), (820, 29768),

Gene: Alone3_128 Start: 69071, Stop: 70642, Start Num: 204

Candidate Starts for Alone3_128:

(Start: 204 @69071 has 4 MA's), (238, 69152), (243, 69176), (277, 69242), (313, 69323), (350, 69389), (390, 69455), (393, 69464), (425, 69542), (442, 69593), (476, 69695), (482, 69716), (483, 69719), (500, 69770), (503, 69779), (509, 69794), (513, 69806), (533, 69854), (539, 69869), (685, 70139), (693, 70151), (700, 70175), (733, 70262), (766, 70367), (799, 70487), (802, 70499), (822, 70556), (826, 70568), (830, 70574), (855, 70622),

Gene: Alove_33 Start: 23258, Stop: 24685, Start Num: 217

Candidate Starts for Alove_33:

(191, 23216), (Start: 217 @23258 has 16 MA's), (397, 23576), (465, 23723), (473, 23744), (591, 24011), (612, 24059), (622, 24080), (648, 24137), (661, 24170), (677, 24206), (702, 24284), (708, 24305), (743, 24386), (744, 24389), (767, 24476), (771, 24488), (781, 24527), (789, 24563), (791, 24569), (797, 24581), (818, 24644),

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

Candidate Starts for Alyssamiracle_63:

(Start: 55 @39828 has 13 MA's), (Start: 56 @39831 has 54 MA's), (Start: 70 @39843 has 16 MA's), (86, 39891), (105, 39924), (171, 40083), (184, 40110), (188, 40119), (226, 40191), (273, 40311), (295, 40374), (350, 40464), (361, 40491), (420, 40620), (427, 40644), (441, 40686), (446, 40698), (455, 40713), (460, 40734), (465, 40755), (473, 40776), (490, 40833), (495, 40851), (511, 40887), (529, 40929), (549, 40989), (586, 41085), (587, 41088), (685, 41265), (708, 41316), (743, 41406), (753, 41442), (755, 41448), (768, 41502), (779, 41541), (808, 41643), (813, 41658), (822, 41679),

Gene: Alyxandracam_41 Start: 31119, Stop: 29731, Start Num: 370

Candidate Starts for Alyxandracam_41:

(120, 31770), (242, 31416), (274, 31341), (Start: 370 @31119 has 138 MA's), (419, 30975), (421, 30969), (422, 30966), (463, 30852), (474, 30825), (490, 30765), (499, 30738), (501, 30735), (538, 30639), (550, 30597), (594, 30426), (606, 30390), (612, 30378), (626, 30345), (632, 30330), (670, 30270), (702, 30174), (725, 30111), (743, 30057), (762, 29973), (764, 29967), (766, 29955), (789, 29859), (810, 29805), (811, 29802), (820, 29778),

Gene: Amore2_62 Start: 52713, Stop: 51082, Start Num: 116

Candidate Starts for Amore2_62:

(Start: 116 @52713 has 3 MA's), (121, 52701), (141, 52650), (143, 52644), (170, 52587), (239, 52446), (251, 52404), (256, 52392), (272, 52356), (273, 52353), (283, 52326), (296, 52290), (306, 52278), (317, 52263), (406, 52155), (462, 52050), (465, 52035), (511, 51912), (532, 51864), (544, 51840),

(548, 51822), (583, 51774), (602, 51723), (624, 51687), (631, 51669), (684, 51552), (713, 51501), (733, 51459), (753, 51399), (765, 51357), (777, 51306), (782, 51282), (845, 51120), (855, 51099),

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

Candidate Starts for Anakin_40:

(Start: 68 @25911 has 34 MA's), (96, 25974), (109, 25995), (128, 26049), (216, 26226), (231, 26271), (298, 26445), (306, 26454), (355, 26544), (378, 26601), (443, 26787), (490, 26922), (493, 26934), (510, 26967), (577, 27096), (626, 27213), (676, 27288), (753, 27522), (754, 27525), (768, 27585), (788, 27675), (802, 27705), (815, 27747), (840, 27798),

Gene: Anamika_57 Start: 52887, Stop: 51475, Start Num: 227

Candidate Starts for Anamika_57:

(72, 53235), (123, 53106), (156, 53019), (Start: 158 @53016 has 3 MA's), (Start: 227 @52887 has 28 MA's), (239, 52842), (272, 52752), (273, 52749), (276, 52743), (283, 52722), (317, 52659), (406, 52551), (421, 52533), (462, 52446), (465, 52431), (478, 52389), (511, 52308), (532, 52260), (548, 52218), (574, 52200), (575, 52197), (583, 52170), (602, 52119), (624, 52083), (646, 52032), (684, 51948), (690, 51927), (761, 51771), (762, 51765), (765, 51753), (797, 51627), (845, 51513),

Gene: Andromedas_40 Start: 31099, Stop: 29687, Start Num: 376

Candidate Starts for Andromedas_40:

(Start: 376 @31099 has 23 MA's), (385, 31069), (Start: 387 @31063 has 1 MA's), (400, 31030), (463, 30838), (474, 30811), (490, 30751), (499, 30724), (501, 30721), (516, 30679), (538, 30625), (550, 30583), (576, 30469), (594, 30412), (601, 30391), (606, 30376), (612, 30364), (615, 30352), (617, 30349), (626, 30331), (658, 30250), (670, 30214), (689, 30160), (701, 30118), (710, 30088), (722, 30064), (724, 30058), (739, 30016), (753, 29947), (761, 29923), (762, 29917), (764, 29911), (766, 29899), (789, 29803), (794, 29794), (802, 29776), (805, 29764), (822, 29719),

Gene: Anilorac_41 Start: 31339, Stop: 29834, Start Num: 316

Candidate Starts for Anilorac_41:

(300, 31363), (316, 31339), (332, 31318), (359, 31255), (Start: 370 @31225 has 138 MA's), (419, 31078), (421, 31072), (422, 31069), (463, 30955), (490, 30868), (499, 30841), (501, 30838), (538, 30742), (550, 30700), (594, 30529), (601, 30508), (612, 30481), (632, 30433), (670, 30373), (743, 30160), (747, 30142), (761, 30082), (762, 30076), (764, 30070), (766, 30058), (789, 29962), (810, 29908), (811, 29905), (836, 29851),

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

Candidate Starts for AnnaSerena_40:

(Start: 68 @25946 has 34 MA's), (96, 26009), (109, 26030), (128, 26084), (216, 26261), (231, 26306), (298, 26480), (306, 26489), (355, 26579), (378, 26636), (443, 26822), (490, 26957), (493, 26969), (510, 27002), (577, 27131), (626, 27248), (676, 27323), (753, 27557), (754, 27560), (768, 27620), (788, 27710), (802, 27740), (815, 27782), (840, 27833),

Gene: AnnabelLee_38 Start: 26373, Stop: 24541, Start Num: 65

Candidate Starts for AnnabelLee_38:

(Start: 65 @26373 has 9 MA's), (88, 26316), (187, 26115), (239, 25980), (292, 25845), (306, 25818), (385, 25761), (390, 25746), (408, 25692), (427, 25596), (429, 25590), (433, 25575), (452, 25530), (465, 25482), (473, 25461), (477, 25443), (493, 25392), (531, 25299), (536, 25287), (577, 25224), (609, 25152), (638, 25092), (655, 25071), (688, 25005), (695, 24987), (701, 24969), (702, 24966), (713, 24930), (753, 24822), (756, 24813), (771, 24753), (782, 24705),

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

Candidate Starts for Annapurna_40:

(17, 25046), (Start: 68 @25220 has 34 MA's), (96, 25283), (109, 25304), (128, 25358), (191, 25493), (216, 25535), (231, 25580), (298, 25754), (306, 25763), (355, 25853), (Start: 370 @25895 has 138 MA's), (378, 25910), (443, 26096), (490, 26231), (493, 26243), (510, 26276), (577, 26405), (626, 26522), (743, 26795), (754, 26834), (768, 26894), (788, 26984), (802, 27014), (815, 27056), (840, 27107),

Gene: Antoinette_41 Start: 31109, Stop: 29721, Start Num: 370

Candidate Starts for Antoinette_41:

(274, 31331), (Start: 370 @31109 has 138 MA's), (419, 30965), (421, 30959), (422, 30956), (463, 30842), (474, 30815), (490, 30755), (499, 30728), (501, 30725), (538, 30629), (550, 30587), (594, 30416), (601, 30395), (606, 30380), (612, 30368), (632, 30320), (670, 30260), (702, 30164), (725, 30101), (743, 30047), (762, 29963), (764, 29957), (766, 29945), (783, 29870), (789, 29849), (810, 29795), (811, 29792), (820, 29768),

Gene: Apeppi_55 Start: 40047, Stop: 41966, Start Num: 56

Candidate Starts for Apeppi_55:

(20, 39927), (24, 39948), (31, 39969), (44, 39999), (50, 40032), (Start: 55 @40044 has 13 MA's), (Start: 56 @40047 has 54 MA's), (Start: 70 @40062 has 16 MA's), (75, 40077), (86, 40110), (105, 40143), (107, 40146), (Start: 126 @40194 has 3 MA's), (132, 40212), (171, 40302), (179, 40320), (184, 40329), (188, 40338), (226, 40410), (273, 40530), (275, 40533), (295, 40593), (307, 40611), (350, 40683), (361, 40710), (422, 40845), (427, 40863), (441, 40905), (451, 40926), (455, 40932), (465, 40974), (473, 40995), (478, 41016), (490, 41052), (529, 41151), (531, 41160), (549, 41211), (586, 41307), (587, 41310), (659, 41421), (685, 41487), (700, 41511), (708, 41538), (765, 41706), (768, 41724), (774, 41748), (779, 41763), (780, 41769), (787, 41811), (794, 41826), (808, 41865), (813, 41880), (822, 41901), (853, 41958),

Gene: Apiary_72 Start: 53146, Stop: 51110, Start Num: 37

Candidate Starts for Apiary_72:

(12, 53314), (Start: 37 @53146 has 6 MA's), (60, 53080), (79, 53038), (213, 52753), (236, 52696), (251, 52645), (259, 52630), (298, 52540), (306, 52528), (355, 52435), (390, 52363), (422, 52294), (446, 52222), (465, 52165), (532, 51985), (542, 51961), (565, 51898), (577, 51862), (610, 51775), (676, 51643), (688, 51604), (689, 51601), (702, 51556), (753, 51409), (769, 51346), (780, 51304), (787, 51265), (800, 51241),

Gene: ApoKipo_99 Start: 56676, Stop: 58337, Start Num: 129

Candidate Starts for ApoKipo_99:

(Start: 129 @56676 has 9 MA's), (154, 56736), (179, 56796), (196, 56823), (257, 56997), (262, 57009), (316, 57129), (380, 57165), (388, 57189), (405, 57234), (424, 57270), (426, 57276), (444, 57324), (466, 57366), (513, 57486), (544, 57549), (574, 57582), (583, 57612), (588, 57630), (589, 57633), (603, 57666), (624, 57699), (651, 57756), (681, 57825), (697, 57882), (733, 57954), (744, 57981), (750, 58008), (771, 58083), (778, 58110), (789, 58158), (802, 58191), (804, 58200), (805, 58203), (816, 58236), (845, 58290), (850, 58302), (852, 58305), (855, 58311),

Gene: AppleCider_29 Start: 22130, Stop: 23524, Start Num: 212

Candidate Starts for AppleCider_29:

(Start: 212 @22130 has 74 MA's), (232, 22187), (279, 22292), (320, 22379), (420, 22463), (421, 22466), (422, 22469), (462, 22559), (473, 22595), (475, 22604), (495, 22670), (508, 22688), (523, 22721), (531, 22733), (577, 22802), (585, 22829), (593, 22853), (610, 22889), (612, 22895), (627, 22928), (633, 22943), (637, 22952), (678, 23042), (700, 23111), (708, 23138), (714, 23156), (721, 23168), (753, 23258), (755, 23264), (758, 23273), (760, 23279), (767, 23315), (789, 23402), (807, 23453), (823, 23492), (834, 23516),

Gene: Araceli_42 Start: 30875, Stop: 32269, Start Num: 218

Candidate Starts for Araceli_42:

(Start: 218 @30875 has 13 MA's), (Start: 219 @30878 has 3 MA's), (239, 30953), (248, 30977), (272, 31007), (273, 31010), (279, 31022), (287, 31055), (329, 31112), (Start: 387 @31136 has 1 MA's), (420, 31181), (422, 31187), (441, 31247), (458, 31268), (475, 31322), (513, 31421), (524, 31448), (529, 31457), (591, 31583), (612, 31631), (622, 31652), (627, 31664), (633, 31679), (648, 31709), (661, 31742), (664, 31751), (682, 31793), (701, 31859), (702, 31862), (708, 31883), (714, 31901), (724, 31919), (744, 31973), (753, 32003), (767, 32060), (768, 32063), (781, 32111), (797, 32165), (821, 32234), (829, 32252),

Gene: AranulaLuti_40 Start: 30803, Stop: 29415, Start Num: 370

Candidate Starts for AranulaLuti_40:

(48, 31619), (120, 31454), (242, 31100), (274, 31025), (Start: 370 @30803 has 138 MA's), (419, 30659), (421, 30653), (422, 30650), (463, 30536), (474, 30509), (490, 30449), (499, 30422), (501, 30419), (538, 30323), (550, 30281), (594, 30110), (601, 30089), (606, 30074), (632, 30014), (670, 29954), (702, 29858), (725, 29795), (743, 29741), (762, 29657), (764, 29651), (766, 29639), (789, 29543), (810, 29489), (811, 29486), (820, 29462),

Gene: Archimedes_37 Start: 33084, Stop: 31684, Start Num: 218

Candidate Starts for Archimedes_37:

(Start: 218 @33084 has 13 MA's), (229, 33042), (239, 33006), (245, 32988), (248, 32982), (272, 32952), (279, 32937), (280, 32934), (320, 32850), (474, 32628), (477, 32616), (524, 32502), (591, 32376), (596, 32364), (605, 32343), (606, 32340), (612, 32328), (627, 32295), (633, 32280), (645, 32256), (661, 32220), (664, 32211), (700, 32112), (721, 32055), (728, 32043), (730, 32037), (758, 31950), (764, 31929), (767, 31908), (791, 31815), (835, 31689),

Gene: Arti_71 Start: 55496, Stop: 53430, Start Num: 36

Candidate Starts for Arti_71:

(8, 55700), (9, 55688), (11, 55670), (Start: 36 @55496 has 34 MA's), (Start: 87 @55358 has 2 MA's), (Start: 98 @55334 has 3 MA's), (188, 55130), (213, 55085), (251, 54977), (303, 54863), (306, 54860), (355, 54770), (357, 54767), (Start: 387 @54707 has 1 MA's), (441, 54569), (450, 54551), (458, 54527), (495, 54404), (532, 54299), (577, 54173), (594, 54119), (660, 53993), (662, 53984), (671, 53960), (700, 53888), (702, 53882), (710, 53852), (733, 53795), (753, 53735), (769, 53672), (787, 53591),

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

Candidate Starts for Artiphact_40:

(Start: 68 @25935 has 34 MA's), (96, 25998), (109, 26019), (128, 26073), (216, 26250), (231, 26295), (298, 26469), (306, 26478), (355, 26568), (378, 26625), (443, 26811), (490, 26946), (493, 26958), (510, 26991), (577, 27120), (626, 27237), (676, 27312), (753, 27546), (754, 27549), (768, 27609), (788, 27699), (802, 27729), (815, 27771), (840, 27822),

Gene: Artu_93 Start: 77224, Stop: 79068, Start Num: 63

Candidate Starts for Artu_93:

(Start: 63 @77224 has 11 MA's), (181, 77497), (239, 77605), (269, 77671), (292, 77740), (296, 77749), (385, 77824), (478, 78133), (492, 78178), (509, 78217), (517, 78238), (536, 78283), (575, 78340), (577, 78346), (586, 78379), (590, 78391), (595, 78403), (665, 78520), (667, 78526), (701, 78616), (710, 78649), (744, 78733), (769, 78826), (775, 78850), (829, 79018), (831, 79021),

Gene: Asta_40 Start: 30816, Stop: 29428, Start Num: 370

Candidate Starts for Asta_40:

(274, 31038), (Start: 370 @30816 has 138 MA's), (419, 30672), (421, 30666), (422, 30663), (463, 30549), (474, 30522), (490, 30462), (499, 30435), (501, 30432), (537, 30339), (538, 30336), (550, 30294), (594, 30123), (601, 30102), (606, 30087), (612, 30075), (632, 30027), (670, 29967), (702, 29871), (725, 29808), (743, 29754), (762, 29670), (764, 29664), (766, 29652), (783, 29577), (789,

29556), (810, 29502), (811, 29499), (820, 29475),

Gene: Astralis_60 Start: 39409, Stop: 41322, Start Num: 56

Candidate Starts for Astralis_60:

(Start: 55 @39406 has 13 MA's), (Start: 56 @39409 has 54 MA's), (Start: 70 @39421 has 16 MA's), (86, 39469), (105, 39502), (171, 39661), (184, 39688), (188, 39697), (226, 39769), (273, 39889), (295, 39952), (350, 40042), (361, 40069), (420, 40198), (427, 40222), (441, 40264), (446, 40276), (455, 40291), (460, 40312), (465, 40333), (473, 40354), (490, 40411), (495, 40429), (511, 40465), (529, 40507), (549, 40567), (586, 40663), (587, 40666), (685, 40843), (708, 40894), (743, 40984), (753, 41020), (755, 41026), (768, 41080), (779, 41119), (808, 41221), (813, 41236), (822, 41257),

Gene: Atuin_95 Start: 80621, Stop: 82477, Start Num: 63

Candidate Starts for Atuin_95:

(Start: 63 @80621 has 11 MA's), (181, 80894), (239, 80999), (287, 81122), (292, 81134), (296, 81143), (392, 81239), (414, 81314), (427, 81374), (478, 81527), (492, 81572), (517, 81632), (536, 81677), (575, 81734), (577, 81740), (586, 81773), (590, 81785), (595, 81797), (665, 81914), (666, 81917), (688, 81974), (701, 82010), (704, 82022), (710, 82043), (744, 82127), (769, 82220), (775, 82244), (829, 82412), (831, 82415),

Gene: Aubergine_40 Start: 30816, Stop: 29428, Start Num: 370

Candidate Starts for Aubergine_40:

(274, 31038), (Start: 370 @30816 has 138 MA's), (419, 30672), (421, 30666), (422, 30663), (463, 30549), (474, 30522), (490, 30462), (499, 30435), (501, 30432), (538, 30336), (550, 30294), (594, 30123), (601, 30102), (606, 30087), (632, 30027), (670, 29967), (702, 29871), (725, 29808), (743, 29754), (762, 29670), (764, 29664), (766, 29652), (789, 29556), (810, 29502), (811, 29499), (820, 29475),

Gene: Audell_37 Start: 28742, Stop: 26934, Start Num: 65

Candidate Starts for Audell_37:

(Start: 65 @28742 has 9 MA's), (88, 28682), (124, 28619), (184, 28487), (187, 28481), (Start: 237 @28364 has 1 MA's), (239, 28352), (276, 28268), (385, 28130), (433, 27944), (465, 27851), (473, 27830), (476, 27818), (536, 27659), (542, 27644), (552, 27614), (577, 27596), (622, 27527), (625, 27521), (631, 27506), (650, 27479), (655, 27467), (665, 27458), (676, 27440), (687, 27404), (688, 27401), (695, 27383), (701, 27365), (702, 27362), (756, 27209), (765, 27176), (771, 27149), (776, 27128), (782, 27101), (809, 27011), (831, 26960),

Gene: Austin_61 Start: 52711, Stop: 51080, Start Num: 116

Candidate Starts for Austin_61:

(Start: 116 @52711 has 3 MA's), (121, 52699), (141, 52648), (143, 52642), (170, 52585), (239, 52444), (251, 52402), (256, 52390), (272, 52354), (273, 52351), (283, 52324), (296, 52288), (306, 52276), (317, 52261), (406, 52153), (462, 52048), (465, 52033), (511, 51910), (532, 51862), (544, 51838), (548, 51820), (583, 51772), (602, 51721), (624, 51685), (631, 51667), (684, 51550), (713, 51499), (733, 51457), (753, 51397), (765, 51355), (777, 51304), (782, 51280), (845, 51118), (855, 51097),

Gene: AustinPowers_26 Start: 21746, Stop: 23140, Start Num: 212

Candidate Starts for AustinPowers_26:

(Start: 212 @21746 has 74 MA's), (232, 21803), (269, 21890), (279, 21908), (280, 21911), (320, 21995), (385, 22028), (420, 22079), (422, 22085), (441, 22145), (462, 22175), (473, 22211), (477, 22229), (489, 22265), (495, 22286), (508, 22304), (510, 22310), (523, 22337), (577, 22418), (585, 22445), (593, 22469), (601, 22484), (612, 22511), (627, 22544), (633, 22559), (700, 22727), (708, 22754), (712, 22766), (721, 22784), (753, 22874), (755, 22880), (760, 22895), (761, 22898), (782, 22991), (789, 23018), (809, 23075), (823, 23108), (834, 23132),

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

Candidate Starts for Avian_59:

(Start: 55 @39556 has 13 MA's), (Start: 56 @39559 has 54 MA's), (Start: 70 @39571 has 16 MA's), (86, 39619), (105, 39652), (171, 39811), (184, 39838), (188, 39847), (226, 39919), (273, 40039), (295, 40102), (350, 40192), (361, 40219), (420, 40348), (427, 40372), (441, 40414), (446, 40426), (455, 40441), (460, 40462), (465, 40483), (473, 40504), (490, 40561), (495, 40579), (511, 40615), (529, 40657), (549, 40717), (586, 40813), (587, 40816), (685, 40993), (708, 41044), (743, 41134), (753, 41170), (755, 41176), (768, 41230), (779, 41269), (808, 41371), (813, 41386), (822, 41407),

Gene: AxiPup_41 Start: 31088, Stop: 29700, Start Num: 370

Candidate Starts for AxiPup_41:

(120, 31739), (242, 31385), (274, 31310), (Start: 370 @31088 has 138 MA's), (419, 30944), (421, 30938), (422, 30935), (463, 30821), (474, 30794), (490, 30734), (499, 30707), (501, 30704), (538, 30608), (550, 30566), (594, 30395), (601, 30374), (612, 30347), (632, 30299), (670, 30239), (725, 30080), (743, 30026), (762, 29942), (764, 29936), (766, 29924), (789, 29828), (810, 29774), (811, 29771), (820, 29747),

Gene: AyoTeo_35 Start: 23382, Stop: 24809, Start Num: 217

Candidate Starts for AyoTeo_35:

(191, 23340), (Start: 217 @23382 has 16 MA's), (397, 23700), (441, 23802), (465, 23847), (473, 23868), (591, 24135), (612, 24183), (622, 24204), (648, 24261), (661, 24294), (677, 24330), (702, 24408), (708, 24429), (743, 24510), (744, 24513), (767, 24600), (771, 24612), (781, 24651), (789, 24687), (797, 24705), (818, 24768),

Gene: BRock_117 Start: 63285, Stop: 64868, Start Num: 204

Candidate Starts for BRock_117:

(Start: 204 @63285 has 4 MA's), (209, 63294), (Start: 237 @63360 has 1 MA's), (238, 63366), (273, 63447), (277, 63456), (299, 63519), (301, 63522), (303, 63525), (313, 63540), (350, 63606), (389, 63669), (390, 63672), (393, 63681), (418, 63735), (425, 63759), (442, 63810), (470, 63891), (478, 63921), (483, 63936), (487, 63948), (500, 63987), (513, 64023), (522, 64044), (533, 64071), (539, 64086), (545, 64107), (577, 64149), (629, 64257), (663, 64305), (682, 64347), (685, 64356), (710, 64428), (727, 64461), (733, 64479), (764, 64572), (766, 64584), (785, 64671), (787, 64683), (799, 64704), (815, 64758), (820, 64770), (849, 64827),

Gene: Baines_40 Start: 30809, Stop: 29421, Start Num: 370

Candidate Starts for Baines_40:

(274, 31031), (Start: 370 @30809 has 138 MA's), (419, 30665), (421, 30659), (422, 30656), (463, 30542), (474, 30515), (490, 30455), (499, 30428), (501, 30425), (538, 30329), (550, 30287), (594, 30116), (601, 30095), (606, 30080), (612, 30068), (632, 30020), (670, 29960), (702, 29864), (725, 29801), (743, 29747), (762, 29663), (764, 29657), (766, 29645), (783, 29570), (789, 29549), (810, 29495), (811, 29492), (820, 29468),

Gene: Balsa_40 Start: 31258, Stop: 29867, Start Num: 370

Candidate Starts for Balsa_40:

(316, 31372), (359, 31288), (Start: 370 @31258 has 138 MA's), (419, 31111), (421, 31105), (422, 31102), (463, 30988), (474, 30961), (490, 30901), (499, 30874), (501, 30871), (538, 30775), (550, 30733), (594, 30562), (601, 30541), (612, 30514), (670, 30406), (702, 30310), (743, 30193), (747, 30175), (762, 30109), (764, 30103), (789, 29995), (810, 29941), (811, 29938), (820, 29914), (836, 29884),

Gene: Bandik_41 Start: 31114, Stop: 29726, Start Num: 370

Candidate Starts for Bandik_41:

(120, 31765), (242, 31411), (274, 31336), (Start: 370 @31114 has 138 MA's), (419, 30970), (421, 30964), (422, 30961), (463, 30847), (474, 30820), (490, 30760), (499, 30733), (501, 30730), (538, 30634), (550, 30592), (575, 30481), (594, 30421), (606, 30385), (612, 30373), (626, 30340), (632, 30325), (670, 30265), (702, 30169), (725, 30106), (743, 30052), (762, 29968), (764, 29962), (766, 29950), (789, 29854), (810, 29800), (811, 29797), (820, 29773),

Gene: Barbochs_57 Start: 51736, Stop: 50204, Start Num: 176

Candidate Starts for Barbochs_57:

(72, 51991), (89, 51940), (114, 51889), (133, 51835), (145, 51805), (Start: 158 @51772 has 3 MA's), (164, 51763), (Start: 176 @51736 has 28 MA's), (239, 51568), (251, 51526), (272, 51478), (277, 51466), (282, 51454), (283, 51448), (288, 51427), (306, 51400), (421, 51259), (462, 51172), (465, 51157), (470, 51145), (478, 51115), (494, 51064), (510, 51037), (532, 50986), (544, 50962), (548, 50944), (574, 50926), (575, 50923), (583, 50896), (599, 50854), (624, 50809), (684, 50674), (688, 50659), (694, 50638), (733, 50581), (743, 50557), (761, 50497), (762, 50491), (764, 50485), (765, 50479), (777, 50428), (782, 50404), (791, 50365), (797, 50353), (798, 50350), (837, 50257), (845, 50242), (855, 50221),

Gene: Barnyard_65 Start: 45144, Stop: 47105, Start Num: 51

Candidate Starts for Barnyard_65:

(Start: 51 @45144 has 1 MA's), (66, 45171), (Start: 70 @45177 has 16 MA's), (71, 45183), (97, 45249), (115, 45282), (122, 45297), (Start: 126 @45312 has 3 MA's), (128, 45318), (138, 45345), (155, 45387), (181, 45447), (191, 45468), (210, 45504), (216, 45513), (236, 45576), (240, 45597), (246, 45615), (252, 45630), (256, 45636), (273, 45660), (299, 45735), (303, 45741), (398, 45924), (403, 45936), (410, 45954), (420, 45969), (446, 46047), (495, 46200), (509, 46233), (553, 46368), (569, 46395), (573, 46401), (575, 46407), (591, 46461), (616, 46527), (618, 46530), (659, 46572), (702, 46656), (712, 46689), (752, 46800), (753, 46803), (754, 46806), (756, 46812), (765, 46845), (769, 46866), (770, 46869), (780, 46908), (794, 46962), (807, 46998), (810, 47007), (835, 47064), (846, 47082),

Gene: BaronJohn_41 Start: 29646, Stop: 28255, Start Num: 385

Candidate Starts for BaronJohn_41:

(354, 29724), (Start: 373 @29682 has 21 MA's), (383, 29652), (385, 29646), (421, 29532), (422, 29529), (423, 29526), (499, 29292), (501, 29289), (576, 29034), (591, 28983), (594, 28977), (612, 28929), (626, 28896), (670, 28782), (675, 28773), (689, 28728), (691, 28722), (698, 28695), (702, 28686), (725, 28623), (747, 28551), (753, 28515), (756, 28506), (761, 28491), (762, 28485), (766, 28467), (776, 28425), (794, 28362), (820, 28290),

Gene: BeautPeep30_41 Start: 31120, Stop: 29732, Start Num: 370

Candidate Starts for BeautPeep30_41:

(274, 31342), (Start: 370 @31120 has 138 MA's), (419, 30976), (421, 30970), (422, 30967), (463, 30853), (474, 30826), (490, 30766), (499, 30739), (501, 30736), (538, 30640), (550, 30598), (590, 30436), (594, 30427), (601, 30406), (606, 30391), (612, 30379), (632, 30331), (670, 30271), (702, 30175), (725, 30112), (743, 30058), (762, 29974), (764, 29968), (766, 29956), (789, 29860), (810, 29806), (811, 29803), (820, 29779),

Gene: Beaver_62 Start: 53506, Stop: 51974, Start Num: 176

Candidate Starts for Beaver_62:

(72, 53761), (89, 53710), (114, 53659), (133, 53605), (145, 53575), (Start: 158 @53542 has 3 MA's), (164, 53533), (Start: 176 @53506 has 28 MA's), (239, 53338), (251, 53296), (272, 53248), (277, 53236), (282, 53224), (283, 53218), (288, 53197), (306, 53170), (421, 53029), (462, 52942), (465, 52927), (470, 52915), (478, 52885), (494, 52834), (510, 52807), (532, 52756), (548, 52714), (574, 52696), (575, 52693), (583, 52666), (599, 52624), (624, 52579), (631, 52561), (684, 52444), (688, 52429), (694, 52408), (733, 52351), (743, 52327), (761, 52267), (762, 52261), (764, 52255), (765, 52249), (777, 52198), (782, 52174), (791, 52135), (797, 52123), (837, 52027), (845, 52012), (855,

51991),

Gene: Beckerton_60 Start: 46572, Stop: 48629, Start Num: 56

Candidate Starts for Beckerton_60:

(Start: 56 @46572 has 54 MA's), (84, 46632), (85, 46635), (Start: 126 @46728 has 3 MA's), (130, 46740), (138, 46761), (191, 46884), (193, 46887), (197, 46896), (216, 46929), (222, 46950), (229, 46998), (240, 47040), (273, 47103), (282, 47124), (283, 47130), (303, 47184), (398, 47370), (403, 47382), (410, 47400), (420, 47415), (422, 47421), (532, 47739), (534, 47742), (549, 47787), (573, 47838), (577, 47850), (610, 47940), (616, 47952), (632, 47985), (649, 48009), (653, 48018), (702, 48108), (712, 48141), (752, 48252), (753, 48255), (754, 48258), (755, 48261), (765, 48297), (768, 48315), (783, 48381), (787, 48399), (857, 48576),

Gene: BeeBee8_41 Start: 31426, Stop: 30035, Start Num: 370

Candidate Starts for BeeBee8_41:

(314, 31528), (316, 31525), (317, 31522), (Start: 370 @31426 has 138 MA's), (419, 31279), (421, 31273), (422, 31270), (463, 31156), (474, 31129), (490, 31069), (499, 31042), (501, 31039), (538, 30943), (550, 30901), (594, 30730), (601, 30709), (612, 30682), (632, 30634), (670, 30574), (702, 30478), (743, 30361), (747, 30343), (762, 30277), (764, 30271), (789, 30163), (810, 30109), (811, 30106), (820, 30082), (836, 30052),

Gene: Beethoven_29 Start: 22100, Stop: 23500, Start Num: 212

Candidate Starts for Beethoven_29:

(Start: 212 @22100 has 74 MA's), (232, 22163), (279, 22268), (280, 22271), (320, 22355), (385, 22388), (420, 22439), (422, 22445), (458, 22526), (459, 22529), (462, 22535), (473, 22571), (477, 22589), (478, 22592), (489, 22625), (495, 22646), (508, 22664), (523, 22697), (577, 22778), (585, 22805), (596, 22835), (601, 22844), (612, 22871), (627, 22904), (633, 22919), (659, 22973), (666, 22994), (670, 23006), (678, 23018), (755, 23240), (758, 23249), (760, 23255), (767, 23291), (782, 23351), (789, 23378), (823, 23468),

Gene: Beleetus_123 Start: 66657, Stop: 68228, Start Num: 204

Candidate Starts for Beleetus_123:

(Start: 204 @66657 has 4 MA's), (238, 66738), (239, 66744), (243, 66762), (269, 66807), (275, 66822), (277, 66828), (299, 66891), (313, 66909), (350, 66975), (390, 67041), (393, 67050), (425, 67128), (442, 67179), (476, 67281), (482, 67302), (483, 67305), (500, 67356), (503, 67365), (509, 67380), (513, 67392), (533, 67440), (539, 67455), (685, 67725), (693, 67737), (700, 67761), (702, 67767), (712, 67800), (733, 67848), (766, 67953), (802, 68085), (822, 68142), (826, 68154), (830, 68160), (855, 68208),

Gene: Benczkowski14_57 Start: 53319, Stop: 51616, Start Num: 95

Candidate Starts for Benczkowski14_57:

(Start: 95 @53319 has 9 MA's), (Start: 99 @53307 has 2 MA's), (178, 53124), (Start: 227 @53034 has 28 MA's), (229, 53025), (239, 52989), (243, 52965), (248, 52956), (251, 52947), (272, 52899), (282, 52875), (317, 52803), (320, 52800), (331, 52782), (388, 52743), (441, 52614), (465, 52575), (466, 52572), (473, 52554), (475, 52545), (478, 52533), (493, 52485), (511, 52452), (532, 52404), (544, 52380), (583, 52314), (624, 52215), (668, 52116), (671, 52107), (683, 52083), (684, 52080), (733, 51987), (743, 51963), (744, 51960), (761, 51903), (765, 51885), (791, 51768), (792, 51765), (798, 51753), (845, 51654), (855, 51633),

Gene: Benjalauren_41 Start: 30819, Stop: 29431, Start Num: 370

Candidate Starts for Benjalauren_41:

(120, 31470), (242, 31116), (274, 31041), (Start: 370 @30819 has 138 MA's), (419, 30675), (421, 30669), (422, 30666), (463, 30552), (474, 30525), (490, 30465), (499, 30438), (501, 30435), (538, 30339), (550, 30297), (594, 30126), (601, 30105), (606, 30090), (632, 30030), (670, 29970), (702,

29874), (725, 29811), (743, 29757), (762, 29673), (764, 29667), (766, 29655), (789, 29559), (810, 29505), (811, 29502), (820, 29478),

Gene: Bennie_25 Start: 20566, Stop: 21960, Start Num: 212

Candidate Starts for Bennie_25:

(Start: 212 @20566 has 74 MA's), (232, 20623), (279, 20728), (280, 20731), (320, 20815), (385, 20848), (420, 20899), (422, 20905), (462, 20995), (473, 21031), (477, 21049), (478, 21052), (489, 21085), (495, 21106), (577, 21238), (585, 21265), (596, 21295), (601, 21304), (612, 21331), (627, 21364), (633, 21379), (648, 21406), (659, 21433), (671, 21469), (690, 21511), (708, 21574), (714, 21592), (744, 21664), (749, 21688), (753, 21694), (754, 21697), (760, 21715), (761, 21718), (766, 21742), (767, 21751), (789, 21838), (807, 21889), (823, 21928),

Gene: BenoitCattle_59 Start: 52020, Stop: 50611, Start Num: 227

Candidate Starts for BenoitCattle_59:

(72, 52398), (89, 52347), (114, 52296), (133, 52242), (145, 52212), (Start: 158 @52179 has 3 MA's), (164, 52170), (Start: 176 @52143 has 28 MA's), (Start: 227 @52020 has 28 MA's), (239, 51975), (251, 51933), (272, 51885), (273, 51882), (276, 51876), (277, 51873), (282, 51861), (283, 51855), (306, 51807), (308, 51804), (406, 51684), (421, 51666), (441, 51603), (462, 51579), (465, 51564), (478, 51522), (494, 51471), (532, 51393), (574, 51333), (575, 51330), (578, 51321), (583, 51303), (599, 51261), (624, 51216), (684, 51081), (688, 51066), (694, 51045), (743, 50964), (744, 50961), (761, 50904), (762, 50898), (765, 50886), (777, 50835), (782, 50811), (791, 50772), (797, 50760), (837, 50664), (845, 50649),

Gene: Benry_32 Start: 21495, Stop: 22922, Start Num: 215

Candidate Starts for Benry_32:

(Start: 215 @21495 has 2 MA's), (420, 21849), (421, 21852), (427, 21873), (465, 21960), (478, 22002), (606, 22284), (612, 22296), (622, 22317), (633, 22344), (646, 22371), (648, 22374), (659, 22401), (661, 22407), (677, 22443), (708, 22542), (733, 22605), (743, 22623), (744, 22626), (761, 22680), (767, 22713), (771, 22725), (781, 22764), (789, 22800), (791, 22806), (797, 22818), (807, 22851), (818, 22881),

Gene: Berries_57 Start: 52859, Stop: 51447, Start Num: 227

Candidate Starts for Berries_57:

(72, 53207), (123, 53078), (Start: 158 @52988 has 3 MA's), (Start: 227 @52859 has 28 MA's), (239, 52814), (272, 52724), (273, 52721), (276, 52715), (283, 52694), (317, 52631), (406, 52523), (421, 52505), (462, 52418), (465, 52403), (478, 52361), (511, 52280), (532, 52232), (548, 52190), (574, 52172), (575, 52169), (583, 52142), (602, 52091), (624, 52055), (646, 52004), (684, 51920), (690, 51899), (761, 51743), (762, 51737), (765, 51725), (797, 51599), (845, 51485),

Gene: Beyoncage_50 Start: 36615, Stop: 38669, Start Num: 70

Candidate Starts for Beyoncage_50:

(Start: 70 @36615 has 16 MA's), (78, 36639), (108, 36702), (139, 36786), (155, 36828), (250, 37050), (273, 37086), (301, 37161), (326, 37200), (351, 37242), (363, 37260), (Start: 370 @37281 has 138 MA's), (378, 37293), (402, 37353), (407, 37368), (420, 37386), (446, 37464), (455, 37479), (456, 37482), (465, 37521), (473, 37542), (510, 37644), (532, 37701), (541, 37722), (542, 37725), (547, 37737), (556, 37785), (557, 37791), (563, 37839), (566, 37872), (573, 37896), (580, 37914), (587, 37944), (635, 38067), (649, 38100), (654, 38112), (662, 38127), (680, 38166), (700, 38211), (708, 38238), (741, 38322), (759, 38385), (768, 38427), (771, 38436), (773, 38445), (783, 38493), (785, 38502), (787, 38514), (794, 38529), (809, 38571),

Gene: BiPauneto_74 Start: 54628, Stop: 52772, Start Num: 126

Candidate Starts for BiPauneto_74:

(9, 55045), (11, 55027), (16, 54952), (Start: 36 @54853 has 34 MA's), (Start: 126 @54628 has 3 MA's), (251, 54334), (273, 54301), (282, 54280), (299, 54226), (303, 54220), (306, 54217), (355, 54127), (357, 54124), (Start: 387 @54064 has 1 MA's), (450, 53908), (495, 53761), (532, 53653), (542, 53629), (577, 53527), (594, 53473), (602, 53458), (641, 53377), (662, 53338), (687, 53275), (700, 53236), (702, 53230), (710, 53200), (753, 53083), (769, 53020), (783, 52957), (787, 52939), (819, 52855),

Gene: Bianmat_57 Start: 52899, Stop: 51487, Start Num: 227

Candidate Starts for Bianmat_57:

(72, 53247), (123, 53118), (Start: 158 @53028 has 3 MA's), (Start: 227 @52899 has 28 MA's), (239, 52854), (272, 52764), (273, 52761), (276, 52755), (283, 52734), (317, 52671), (394, 52593), (406, 52563), (421, 52545), (462, 52458), (465, 52443), (478, 52401), (511, 52320), (532, 52272), (548, 52230), (574, 52212), (575, 52209), (583, 52182), (602, 52131), (624, 52095), (646, 52044), (684, 51960), (690, 51939), (761, 51783), (762, 51777), (765, 51765), (797, 51639), (845, 51525),

Gene: Big4_103 Start: 78367, Stop: 76427, Start Num: 65

Candidate Starts for Big4_103:

(Start: 65 @78367 has 9 MA's), (134, 78214), (178, 78121), (Start: 227 @78046 has 28 MA's), (251, 77965), (266, 77941), (383, 77665), (476, 77359), (508, 77269), (532, 77209), (536, 77200), (575, 77143), (577, 77137), (586, 77104), (590, 77092), (594, 77083), (605, 77059), (635, 76999), (703, 76867), (704, 76861), (730, 76798), (735, 76777), (738, 76771), (762, 76696), (764, 76690), (767, 76669), (782, 76609), (792, 76567), (802, 76543), (805, 76531),

Gene: BigMack_25 Start: 20560, Stop: 21960, Start Num: 212

Candidate Starts for BigMack_25:

(Start: 212 @20560 has 74 MA's), (232, 20623), (279, 20728), (280, 20731), (320, 20815), (385, 20848), (420, 20899), (422, 20905), (458, 20986), (459, 20989), (462, 20995), (473, 21031), (477, 21049), (478, 21052), (489, 21085), (495, 21106), (508, 21124), (577, 21238), (585, 21265), (596, 21295), (601, 21304), (612, 21331), (627, 21364), (633, 21379), (648, 21406), (661, 21439), (690, 21511), (708, 21574), (714, 21592), (731, 21625), (753, 21694), (755, 21700), (760, 21715), (761, 21718), (767, 21751), (782, 21811), (789, 21838), (823, 21928),

Gene: BigMama_51 Start: 39745, Stop: 41688, Start Num: 56

Candidate Starts for BigMama_51:

(Start: 56 @39745 has 54 MA's), (74, 39772), (Start: 106 @39844 has 1 MA's), (127, 39898), (151, 39958), (159, 39976), (163, 39985), (187, 40036), (208, 40078), (226, 40114), (251, 40201), (291, 40294), (299, 40309), (313, 40330), (Start: 370 @40432 has 138 MA's), (385, 40465), (394, 40489), (422, 40549), (455, 40636), (476, 40711), (511, 40801), (532, 40852), (534, 40855), (569, 40945), (577, 40963), (586, 40996), (610, 41050), (616, 41062), (626, 41080), (662, 41143), (700, 41227), (743, 41344), (753, 41392), (769, 41455), (787, 41539),

Gene: BigRedClifford_41 Start: 31118, Stop: 29730, Start Num: 370

Candidate Starts for BigRedClifford_41:

(Start: 370 @31118 has 138 MA's), (419, 30974), (421, 30968), (422, 30965), (463, 30851), (474, 30824), (490, 30764), (499, 30737), (501, 30734), (538, 30638), (550, 30596), (594, 30425), (601, 30404), (612, 30377), (632, 30329), (670, 30269), (725, 30110), (743, 30056), (762, 29972), (764, 29966), (766, 29954), (789, 29858), (810, 29804), (811, 29801), (820, 29777),

Gene: BigShaq_59 Start: 52148, Stop: 50616, Start Num: 176

Candidate Starts for BigShaq_59:

(72, 52403), (89, 52352), (114, 52301), (133, 52247), (145, 52217), (Start: 158 @52184 has 3 MA's), (164, 52175), (Start: 176 @52148 has 28 MA's), (Start: 227 @52025 has 28 MA's), (239, 51980), (251, 51938), (272, 51890), (273, 51887), (276, 51881), (277, 51878), (282, 51866), (283, 51860), (296, 51824), (306, 51812), (308, 51809), (406, 51689), (421, 51671), (462, 51584), (465, 51569), (478,

51527), (494, 51476), (510, 51449), (532, 51398), (574, 51338), (575, 51335), (578, 51326), (583, 51308), (599, 51266), (624, 51221), (684, 51086), (688, 51071), (694, 51050), (743, 50969), (744, 50966), (761, 50909), (762, 50903), (765, 50891), (777, 50840), (781, 50825), (782, 50816), (791, 50777), (797, 50765), (837, 50669), (845, 50654),

Gene: BillyBobJr_65 Start: 53852, Stop: 52284, Start Num: 158

Candidate Starts for BillyBobJr_65:

(72, 54071), (89, 54020), (123, 53942), (133, 53915), (145, 53885), (Start: 158 @53852 has 3 MA's), (164, 53843), (Start: 176 @53816 has 28 MA's), (239, 53648), (251, 53606), (259, 53588), (272, 53558), (277, 53546), (283, 53528), (306, 53480), (421, 53339), (462, 53252), (465, 53237), (470, 53225), (478, 53195), (494, 53144), (532, 53066), (544, 53042), (548, 53024), (574, 53006), (575, 53003), (578, 52994), (583, 52976), (624, 52889), (684, 52754), (688, 52739), (694, 52718), (733, 52661), (743, 52637), (744, 52634), (761, 52577), (762, 52571), (765, 52559), (777, 52508), (782, 52484), (791, 52445), (797, 52433), (798, 52430), (837, 52337), (845, 52322), (855, 52301),

Gene: BirksAndSocks_64 Start: 53856, Stop: 52324, Start Num: 176

Candidate Starts for BirksAndSocks_64:

(72, 54111), (89, 54060), (133, 53955), (145, 53925), (Start: 158 @53892 has 3 MA's), (164, 53883), (Start: 176 @53856 has 28 MA's), (239, 53688), (251, 53646), (259, 53628), (272, 53598), (277, 53586), (282, 53574), (283, 53568), (288, 53547), (421, 53379), (462, 53292), (465, 53277), (470, 53265), (478, 53235), (532, 53106), (544, 53082), (548, 53064), (574, 53046), (575, 53043), (578, 53034), (583, 53016), (624, 52929), (684, 52794), (688, 52779), (694, 52758), (743, 52677), (744, 52674), (761, 52617), (762, 52611), (765, 52599), (777, 52548), (782, 52524), (791, 52485), (797, 52473), (798, 52470), (837, 52377), (845, 52362),

Gene: BirthdayBoy_62 Start: 41143, Stop: 43056, Start Num: 56

Candidate Starts for BirthdayBoy_62:

(19, 41017), (22, 41026), (23, 41038), (34, 41071), (Start: 55 @41140 has 13 MA's), (Start: 56 @41143 has 54 MA's), (Start: 70 @41155 has 16 MA's), (86, 41203), (105, 41236), (132, 41305), (171, 41395), (184, 41422), (188, 41431), (226, 41503), (273, 41623), (295, 41686), (350, 41776), (361, 41803), (420, 41932), (427, 41956), (441, 41998), (460, 42046), (465, 42067), (473, 42088), (490, 42145), (511, 42199), (529, 42241), (549, 42301), (586, 42397), (587, 42400), (685, 42577), (708, 42628), (743, 42718), (753, 42754), (755, 42760), (768, 42814), (779, 42853), (808, 42955), (813, 42970), (822, 42991),

Gene: BiteSize_50 Start: 36701, Stop: 38755, Start Num: 70

Candidate Starts for BiteSize_50:

(Start: 70 @36701 has 16 MA's), (78, 36725), (108, 36788), (139, 36872), (155, 36914), (250, 37136), (273, 37172), (301, 37247), (326, 37286), (351, 37328), (363, 37346), (Start: 370 @37367 has 138 MA's), (378, 37379), (402, 37439), (407, 37454), (420, 37472), (446, 37550), (455, 37565), (456, 37568), (465, 37607), (473, 37628), (510, 37730), (532, 37787), (541, 37808), (542, 37811), (547, 37823), (556, 37871), (557, 37877), (563, 37925), (566, 37958), (573, 37982), (580, 38000), (587, 38030), (635, 38153), (649, 38186), (654, 38198), (662, 38213), (680, 38252), (700, 38297), (708, 38324), (741, 38408), (759, 38471), (768, 38513), (771, 38522), (773, 38531), (783, 38579), (785, 38588), (787, 38600), (794, 38615), (809, 38657),

Gene: Blage_41 Start: 31118, Stop: 29730, Start Num: 370

Candidate Starts for Blage_41:

(Start: 370 @31118 has 138 MA's), (419, 30974), (421, 30968), (422, 30965), (463, 30851), (474, 30824), (490, 30764), (499, 30737), (501, 30734), (538, 30638), (550, 30596), (594, 30425), (601, 30404), (612, 30377), (632, 30329), (670, 30269), (725, 30110), (743, 30056), (762, 29972), (764, 29966), (766, 29954), (789, 29858), (810, 29804), (811, 29801), (820, 29777),

Gene: Bloom_105 Start: 80738, Stop: 82576, Start Num: 63

Candidate Starts for Bloom_105:

(Start: 63 @80738 has 11 MA's), (96, 80819), (135, 80897), (181, 80993), (Start: 227 @81053 has 28 MA's), (236, 81083), (283, 81203), (301, 81254), (384, 81314), (486, 81653), (509, 81710), (517, 81731), (536, 81776), (575, 81833), (577, 81839), (586, 81872), (590, 81884), (595, 81896), (616, 81941), (635, 81980), (676, 82037), (678, 82043), (688, 82076), (710, 82145), (744, 82229), (775, 82346), (832, 82520), (854, 82562),

Gene: BlueNGold_166 Start: 96830, Stop: 94920, Start Num: 62

Candidate Starts for BlueNGold_166:

(Start: 62 @96830 has 8 MA's), (155, 96626), (178, 96578), (207, 96533), (229, 96452), (234, 96440), (273, 96335), (283, 96308), (382, 96203), (390, 96179), (434, 96014), (532, 95747), (536, 95738), (547, 95711), (586, 95642), (688, 95393), (708, 95327), (718, 95303), (764, 95168), (778, 95108), (797, 95036),

Gene: BobtimousPrime_59 Start: 46536, Stop: 48593, Start Num: 56

Candidate Starts for BobtimousPrime_59:

(Start: 56 @46536 has 54 MA's), (84, 46596), (85, 46599), (Start: 126 @46692 has 3 MA's), (130, 46704), (138, 46725), (191, 46848), (193, 46851), (197, 46860), (216, 46893), (222, 46914), (229, 46962), (240, 47004), (273, 47067), (282, 47088), (283, 47094), (303, 47148), (398, 47334), (403, 47346), (410, 47364), (420, 47379), (422, 47385), (532, 47703), (534, 47706), (549, 47751), (573, 47802), (577, 47814), (610, 47904), (616, 47916), (632, 47949), (649, 47973), (653, 47982), (702, 48072), (712, 48105), (752, 48216), (753, 48219), (754, 48222), (755, 48225), (765, 48261), (768, 48279), (783, 48345), (787, 48363), (857, 48540),

Gene: Bodacious_25 Start: 20580, Stop: 21974, Start Num: 212

Candidate Starts for Bodacious_25:

(Start: 212 @20580 has 74 MA's), (232, 20637), (279, 20742), (280, 20745), (320, 20829), (385, 20862), (420, 20913), (422, 20919), (458, 21000), (459, 21003), (462, 21009), (473, 21045), (477, 21063), (478, 21066), (489, 21099), (495, 21120), (577, 21252), (585, 21279), (601, 21318), (610, 21339), (612, 21345), (627, 21378), (633, 21393), (637, 21402), (659, 21447), (671, 21483), (690, 21525), (708, 21588), (714, 21606), (753, 21708), (754, 21711), (760, 21729), (761, 21732), (766, 21756), (767, 21765), (789, 21852), (823, 21942), (834, 21966),

Gene: Bogota_43 Start: 31399, Stop: 32793, Start Num: 218

Candidate Starts for Bogota_43:

(Start: 218 @31399 has 13 MA's), (Start: 219 @31402 has 3 MA's), (239, 31477), (248, 31501), (272, 31531), (279, 31546), (329, 31636), (391, 31672), (441, 31771), (445, 31780), (476, 31849), (524, 31972), (591, 32107), (603, 32134), (612, 32155), (622, 32176), (648, 32233), (661, 32266), (664, 32275), (682, 32317), (701, 32383), (708, 32407), (714, 32425), (724, 32443), (744, 32497), (753, 32527), (767, 32584), (768, 32587), (781, 32635), (790, 32674), (797, 32689), (821, 32758), (829, 32776), (834, 32785),

Gene: Boneham_63 Start: 53757, Stop: 52225, Start Num: 176

Candidate Starts for Boneham_63:

(72, 54012), (89, 53961), (133, 53856), (145, 53826), (Start: 158 @53793 has 3 MA's), (164, 53784), (Start: 176 @53757 has 28 MA's), (239, 53589), (251, 53547), (259, 53529), (272, 53499), (277, 53487), (282, 53475), (283, 53469), (288, 53448), (421, 53280), (462, 53193), (465, 53178), (470, 53166), (478, 53136), (532, 53007), (544, 52983), (548, 52965), (574, 52947), (575, 52944), (578, 52935), (583, 52917), (624, 52830), (684, 52695), (688, 52680), (694, 52659), (743, 52578), (744, 52575), (761, 52518), (762, 52512), (765, 52500), (777, 52449), (782, 52425), (791, 52386), (797, 52374), (798, 52371), (837, 52278), (845, 52263),

Gene: BonesMcCoy_41 Start: 31118, Stop: 29730, Start Num: 370

Candidate Starts for BonesMcCoy_41:

(120, 31769), (242, 31415), (274, 31340), (Start: 370 @31118 has 138 MA's), (419, 30974), (421, 30968), (422, 30965), (463, 30851), (474, 30824), (490, 30764), (499, 30737), (501, 30734), (538, 30638), (550, 30596), (594, 30425), (601, 30404), (612, 30377), (632, 30329), (670, 30269), (725, 30110), (743, 30056), (762, 29972), (764, 29966), (766, 29954), (789, 29858), (810, 29804), (811, 29801), (820, 29777),

Gene: Bonino_40 Start: 30795, Stop: 29407, Start Num: 370

Candidate Starts for Bonino_40:

(274, 31017), (Start: 370 @30795 has 138 MA's), (419, 30651), (421, 30645), (422, 30642), (463, 30528), (474, 30501), (490, 30441), (499, 30414), (501, 30411), (538, 30315), (550, 30273), (594, 30102), (601, 30081), (606, 30066), (612, 30054), (632, 30006), (670, 29946), (702, 29850), (725, 29787), (743, 29733), (762, 29649), (764, 29643), (766, 29631), (783, 29556), (789, 29535), (810, 29481), (811, 29478), (820, 29454),

Gene: Bonum_76 Start: 56632, Stop: 54545, Start Num: 36

Candidate Starts for Bonum_76:

(Start: 36 @56632 has 34 MA's), (79, 56512), (Start: 100 @56467 has 1 MA's), (103, 56464), (213, 56209), (251, 56101), (282, 56047), (306, 55984), (355, 55894), (357, 55891), (364, 55867), (Start: 387 @55831 has 1 MA's), (441, 55693), (450, 55675), (455, 55666), (458, 55651), (495, 55528), (521, 55444), (532, 55417), (542, 55393), (577, 55294), (594, 55240), (623, 55186), (641, 55144), (662, 55105), (689, 55036), (700, 55003), (710, 54967), (731, 54922), (733, 54910), (753, 54850), (769, 54787), (819, 54622), (831, 54598),

Gene: BooTeria_97 Start: 77289, Stop: 79133, Start Num: 63

Candidate Starts for BooTeria_97:

(Start: 63 @77289 has 11 MA's), (181, 77562), (239, 77670), (269, 77736), (292, 77805), (296, 77814), (385, 77889), (478, 78198), (492, 78243), (509, 78282), (517, 78303), (536, 78348), (575, 78405), (577, 78411), (586, 78444), (590, 78456), (595, 78468), (665, 78585), (667, 78591), (701, 78681), (710, 78714), (744, 78798), (769, 78891), (775, 78915), (829, 79083), (831, 79086),

Gene: Boopy_169 Start: 96841, Stop: 94931, Start Num: 62

Candidate Starts for Boopy_169:

(Start: 62 @96841 has 8 MA's), (155, 96637), (178, 96589), (207, 96544), (229, 96463), (234, 96451), (273, 96346), (283, 96319), (382, 96214), (390, 96190), (434, 96025), (532, 95758), (536, 95749), (547, 95722), (586, 95653), (688, 95404), (708, 95338), (718, 95314), (764, 95179), (778, 95119), (797, 95047),

Gene: BouleyBill_39 Start: 30564, Stop: 29158, Start Num: 366

Candidate Starts for BouleyBill_39:

(294, 30711), (321, 30666), (337, 30636), (360, 30582), (Start: 366 @30564 has 2 MA's), (Start: 372 @30552 has 8 MA's), (Start: 376 @30546 has 23 MA's), (385, 30516), (419, 30408), (421, 30402), (422, 30399), (426, 30384), (490, 30198), (492, 30189), (501, 30168), (516, 30126), (538, 30072), (594, 29859), (601, 29838), (606, 29823), (612, 29811), (617, 29796), (635, 29760), (640, 29751), (658, 29736), (670, 29700), (702, 29601), (725, 29538), (734, 29511), (751, 29436), (753, 29430), (756, 29421), (761, 29406), (762, 29400), (764, 29394), (766, 29382), (802, 29259), (805, 29247), (837, 29172),

Gene: Bramble_42 Start: 26601, Stop: 28535, Start Num: 70

Candidate Starts for Bramble_42:

(14, 26361), (Start: 33 @26505 has 1 MA's), (66, 26595), (Start: 70 @26601 has 16 MA's), (128, 26748), (135, 26766), (138, 26775), (216, 26925), (259, 27051), (298, 27141), (306, 27150), (355,

27240), (Start: 370 @27282 has 138 MA's), (382, 27312), (427, 27444), (493, 27630), (502, 27648), (510, 27663), (532, 27720), (573, 27780), (599, 27852), (667, 27990), (692, 28056), (701, 28086), (702, 28089), (731, 28164), (754, 28242), (768, 28302), (788, 28392), (799, 28410),

Gene: Braxoaddie_72 Start: 53132, Stop: 51096, Start Num: 37

Candidate Starts for Braxoaddie_72:

(12, 53300), (Start: 37 @53132 has 6 MA's), (60, 53066), (79, 53024), (128, 52919), (213, 52739), (236, 52682), (251, 52631), (259, 52616), (298, 52526), (306, 52514), (355, 52421), (390, 52349), (422, 52280), (446, 52208), (465, 52151), (532, 51971), (542, 51947), (565, 51884), (577, 51848), (610, 51761), (676, 51629), (688, 51590), (689, 51587), (702, 51542), (753, 51395), (769, 51332), (780, 51290), (787, 51251), (800, 51227),

Gene: Breezic_59 Start: 51749, Stop: 50217, Start Num: 176

Candidate Starts for Breezic_59:

(72, 52004), (89, 51953), (114, 51902), (133, 51848), (145, 51818), (Start: 158 @51785 has 3 MA's), (164, 51776), (Start: 176 @51749 has 28 MA's), (239, 51581), (251, 51539), (272, 51491), (277, 51479), (282, 51467), (283, 51461), (288, 51440), (306, 51413), (421, 51272), (462, 51185), (465, 51170), (470, 51158), (478, 51128), (494, 51077), (510, 51050), (532, 50999), (574, 50939), (575, 50936), (583, 50909), (599, 50867), (624, 50822), (684, 50687), (688, 50672), (694, 50651), (733, 50594), (743, 50570), (744, 50567), (761, 50510), (762, 50504), (764, 50498), (765, 50492), (777, 50441), (782, 50417), (791, 50378), (797, 50366), (798, 50363), (837, 50270), (845, 50255), (855, 50234),

Gene: BrotherBLo_29 Start: 22106, Stop: 23506, Start Num: 212

Candidate Starts for BrotherBLo_29:

(Start: 212 @22106 has 74 MA's), (232, 22169), (279, 22274), (320, 22361), (385, 22394), (420, 22445), (422, 22451), (458, 22532), (459, 22535), (462, 22541), (473, 22577), (477, 22595), (478, 22598), (489, 22631), (495, 22652), (508, 22670), (577, 22784), (585, 22811), (596, 22841), (601, 22850), (612, 22877), (627, 22910), (633, 22925), (659, 22979), (666, 23000), (670, 23012), (678, 23024), (753, 23240), (754, 23243), (755, 23246), (758, 23255), (760, 23261), (767, 23297), (782, 23357), (789, 23384), (823, 23474),

Gene: Buggaboo_74 Start: 57198, Stop: 55111, Start Num: 36

Candidate Starts for Buggaboo_74:

(Start: 36 @57198 has 34 MA's), (79, 57078), (Start: 100 @57033 has 1 MA's), (103, 57030), (213, 56775), (251, 56667), (282, 56613), (306, 56550), (355, 56460), (357, 56457), (364, 56433), (Start: 387 @56397 has 1 MA's), (441, 56259), (450, 56241), (455, 56232), (458, 56217), (495, 56094), (521, 56010), (532, 55983), (542, 55959), (577, 55860), (594, 55806), (623, 55752), (641, 55710), (662, 55671), (689, 55602), (700, 55569), (710, 55533), (731, 55488), (733, 55476), (753, 55416), (755, 55410), (769, 55353), (819, 55188), (831, 55164),

Gene: Bustleton_39 Start: 30567, Stop: 29185, Start Num: 372

Candidate Starts for Bustleton_39:

(360, 30594), (Start: 372 @30567 has 8 MA's), (Start: 376 @30564 has 23 MA's), (385, 30534), (419, 30426), (421, 30420), (422, 30417), (426, 30402), (490, 30216), (492, 30207), (501, 30186), (516, 30144), (538, 30090), (594, 29877), (601, 29856), (606, 29841), (612, 29829), (617, 29814), (635, 29778), (640, 29769), (658, 29754), (670, 29718), (702, 29619), (725, 29556), (734, 29529), (751, 29454), (753, 29448), (756, 29439), (761, 29424), (762, 29418), (764, 29412), (766, 29400), (802, 29277), (805, 29265),

Gene: Butterball_62 Start: 53762, Stop: 52230, Start Num: 176

Candidate Starts for Butterball_62:

(72, 54017), (89, 53966), (133, 53861), (145, 53831), (Start: 158 @53798 has 3 MA's), (164, 53789), (Start: 176 @53762 has 28 MA's), (239, 53594), (251, 53552), (259, 53534), (272, 53504), (277, 53492), (282, 53480), (283, 53474), (288, 53453), (421, 53285), (462, 53198), (465, 53183), (470, 53171), (478, 53141), (532, 53012), (544, 52988), (548, 52970), (574, 52952), (575, 52949), (578, 52940), (583, 52922), (624, 52835), (684, 52700), (688, 52685), (694, 52664), (743, 52583), (744, 52580), (761, 52523), (762, 52517), (765, 52505), (777, 52454), (782, 52430), (791, 52391), (797, 52379), (798, 52376), (837, 52283), (845, 52268),

Gene: Butterscotch_52 Start: 39729, Stop: 41672, Start Num: 56

Candidate Starts for Butterscotch_52:

(Start: 56 @39729 has 54 MA's), (74, 39756), (Start: 106 @39828 has 1 MA's), (127, 39882), (151, 39942), (159, 39960), (163, 39969), (187, 40020), (208, 40062), (226, 40098), (251, 40185), (291, 40278), (299, 40293), (313, 40314), (Start: 370 @40416 has 138 MA's), (385, 40449), (394, 40473), (422, 40533), (455, 40620), (476, 40695), (511, 40785), (532, 40836), (534, 40839), (569, 40929), (577, 40947), (586, 40980), (610, 41034), (616, 41046), (626, 41064), (662, 41127), (700, 41211), (743, 41328), (753, 41376), (769, 41439), (787, 41523),

Gene: Byron23_42 Start: 31117, Stop: 29729, Start Num: 370

Candidate Starts for Byron23_42:

(120, 31768), (242, 31414), (274, 31339), (Start: 370 @31117 has 138 MA's), (419, 30973), (421, 30967), (422, 30964), (463, 30850), (474, 30823), (490, 30763), (499, 30736), (501, 30733), (538, 30637), (550, 30595), (575, 30484), (594, 30424), (606, 30388), (612, 30376), (626, 30343), (632, 30328), (670, 30268), (702, 30172), (725, 30109), (743, 30055), (762, 29971), (764, 29965), (766, 29953), (789, 29857), (810, 29803), (811, 29800), (820, 29776),

Gene: C3PO_72 Start: 52724, Stop: 50799, Start Num: 69

Candidate Starts for C3PO_72:

(Start: 33 @52817 has 1 MA's), (Start: 69 @52724 has 8 MA's), (144, 52553), (167, 52499), (189, 52445), (251, 52295), (331, 52139), (355, 52088), (357, 52085), (421, 51956), (422, 51953), (446, 51881), (451, 51872), (577, 51515), (586, 51482), (676, 51296), (755, 51077), (759, 51065), (764, 51047), (769, 51020), (783, 50957), (794, 50924), (820, 50852),

Gene: Calix_40 Start: 30802, Stop: 29414, Start Num: 370

Candidate Starts for Calix_40:

(274, 31024), (Start: 370 @30802 has 138 MA's), (419, 30658), (421, 30652), (422, 30649), (463, 30535), (474, 30508), (490, 30448), (499, 30421), (501, 30418), (538, 30322), (550, 30280), (594, 30109), (601, 30088), (606, 30073), (612, 30061), (632, 30013), (670, 29953), (702, 29857), (725, 29794), (743, 29740), (762, 29656), (764, 29650), (766, 29638), (783, 29563), (789, 29542), (810, 29488), (811, 29485), (820, 29461),

Gene: Camerico_63 Start: 54751, Stop: 53234, Start Num: 194

Candidate Starts for Camerico_63:

(Start: 194 @54751 has 3 MA's), (Start: 227 @54673 has 28 MA's), (232, 54655), (236, 54643), (239, 54628), (261, 54574), (272, 54556), (275, 54550), (293, 54496), (303, 54478), (381, 54418), (389, 54394), (426, 54313), (438, 54274), (461, 54247), (466, 54226), (475, 54199), (477, 54190), (532, 54058), (544, 54034), (548, 54016), (574, 53998), (577, 53989), (676, 53773), (678, 53767), (683, 53752), (697, 53701), (716, 53647), (765, 53506), (781, 53440), (782, 53431), (789, 53398),

Gene: Candle_64 Start: 47961, Stop: 49721, Start Num: 200

Candidate Starts for Candle_64:

(Start: 200 @47961 has 9 MA's), (230, 48030), (270, 48126), (275, 48135), (305, 48216), (334, 48261), (420, 48462), (434, 48510), (458, 48570), (462, 48582), (480, 48648), (522, 48771), (532, 48795), (542, 48819), (577, 49023), (586, 49056), (591, 49071), (610, 49110), (611, 49113), (616, 49122),

(662, 49191), (671, 49215), (718, 49323), (753, 49446), (754, 49449), (762, 49476), (768, 49506), (770, 49512), (771, 49515), (775, 49533), (779, 49545), (822, 49680), (839, 49710),

Gene: Canowicakte_29 Start: 22165, Stop: 23559, Start Num: 212

Candidate Starts for Canowicakte_29:

(Start: 212 @22165 has 74 MA's), (232, 22222), (279, 22327), (320, 22414), (420, 22498), (421, 22501), (422, 22504), (462, 22594), (473, 22630), (475, 22639), (477, 22648), (495, 22705), (508, 22723), (523, 22756), (531, 22768), (577, 22837), (585, 22864), (593, 22888), (612, 22930), (627, 22963), (633, 22978), (637, 22987), (678, 23077), (700, 23146), (708, 23173), (714, 23191), (721, 23203), (753, 23293), (755, 23299), (758, 23308), (760, 23314), (767, 23350), (789, 23437), (807, 23488), (823, 23527), (834, 23551),

Gene: CaptainRex_40 Start: 29071, Stop: 27644, Start Num: 373

Candidate Starts for CaptainRex_40:

(Start: 373 @29071 has 21 MA's), (383, 29041), (385, 29035), (421, 28921), (422, 28918), (499, 28681), (501, 28678), (576, 28423), (591, 28372), (594, 28366), (612, 28318), (626, 28285), (632, 28270), (661, 28198), (670, 28171), (675, 28162), (689, 28117), (691, 28111), (698, 28084), (725, 28012), (747, 27940), (753, 27904), (756, 27895), (761, 27880), (762, 27874), (766, 27856), (776, 27814), (794, 27751), (816, 27688), (820, 27679),

Gene: CardboardBox_39 Start: 26376, Stop: 24544, Start Num: 65

Candidate Starts for CardboardBox_39:

(Start: 65 @26376 has 9 MA's), (88, 26319), (187, 26118), (239, 25983), (292, 25848), (306, 25821), (385, 25764), (390, 25749), (408, 25695), (427, 25599), (429, 25593), (433, 25578), (452, 25533), (465, 25485), (473, 25464), (477, 25446), (493, 25395), (531, 25302), (536, 25290), (577, 25227), (609, 25155), (638, 25095), (655, 25074), (688, 25008), (695, 24990), (701, 24972), (702, 24969), (713, 24933), (753, 24825), (756, 24816), (771, 24756), (782, 24708),

Gene: CarisSwetlik_44 Start: 32154, Stop: 30658, Start Num: 326

Candidate Starts for CarisSwetlik_44:

(263, 32295), (283, 32244), (288, 32223), (313, 32172), (326, 32154), (Start: 373 @32061 has 21 MA's), (419, 31917), (421, 31911), (441, 31848), (463, 31794), (474, 31767), (490, 31707), (499, 31680), (501, 31677), (538, 31581), (550, 31539), (590, 31377), (594, 31368), (601, 31347), (612, 31320), (635, 31269), (670, 31212), (689, 31158), (702, 31116), (718, 31071), (755, 30939), (762, 30915), (764, 30909), (766, 30897), (789, 30801), (802, 30774), (810, 30747), (837, 30690),

Gene: Carostasia_39 Start: 30625, Stop: 29213, Start Num: 376

Candidate Starts for Carostasia_39:

(Start: 372 @30628 has 8 MA's), (Start: 376 @30625 has 23 MA's), (385, 30595), (Start: 387 @30589 has 1 MA's), (400, 30556), (421, 30481), (423, 30475), (463, 30364), (474, 30337), (486, 30286), (490, 30277), (499, 30250), (501, 30247), (516, 30205), (538, 30151), (576, 29995), (591, 29944), (594, 29938), (601, 29917), (603, 29911), (606, 29902), (612, 29890), (615, 29878), (652, 29800), (670, 29740), (673, 29734), (689, 29686), (701, 29644), (725, 29581), (731, 29569), (737, 29545), (739, 29542), (753, 29473), (756, 29464), (761, 29449), (762, 29443), (764, 29437), (766, 29425), (794, 29320), (802, 29302), (805, 29290), (822, 29245),

Gene: Carpal_29 Start: 22107, Stop: 23507, Start Num: 212

Candidate Starts for Carpal_29:

(Start: 212 @22107 has 74 MA's), (232, 22170), (279, 22275), (280, 22278), (320, 22362), (385, 22395), (420, 22446), (422, 22452), (458, 22533), (459, 22536), (462, 22542), (473, 22578), (477, 22596), (478, 22599), (489, 22632), (495, 22653), (508, 22671), (523, 22704), (577, 22785), (585, 22812), (596, 22842), (601, 22851), (612, 22878), (627, 22911), (633, 22926), (659, 22980), (666, 23001), (670, 23013), (678, 23025), (755, 23247), (758, 23256), (760, 23262), (767, 23298), (782,

23358), (789, 23385), (823, 23475),

Gene: Casey_37 Start: 29766, Stop: 28396, Start Num: 376

Candidate Starts for Casey_37:

(Start: 376 @29766 has 23 MA's), (417, 29637), (423, 29616), (463, 29505), (464, 29502), (488, 29418), (490, 29412), (493, 29400), (501, 29382), (509, 29361), (538, 29286), (548, 29253), (590, 29082), (591, 29079), (594, 29073), (595, 29070), (606, 29037), (632, 28977), (670, 28917), (673, 28911), (675, 28908), (676, 28905), (701, 28821), (746, 28689), (753, 28650), (761, 28626), (762, 28620), (766, 28602), (789, 28506), (802, 28479), (805, 28467), (816, 28434), (822, 28422),

Gene: CathyBurgh_59 Start: 52326, Stop: 50794, Start Num: 176

Candidate Starts for CathyBurgh_59:

(72, 52581), (89, 52530), (114, 52479), (133, 52425), (145, 52395), (Start: 158 @52362 has 3 MA's), (164, 52353), (Start: 176 @52326 has 28 MA's), (239, 52158), (251, 52116), (272, 52068), (277, 52056), (282, 52044), (283, 52038), (288, 52017), (306, 51990), (421, 51849), (462, 51762), (465, 51747), (470, 51735), (478, 51705), (494, 51654), (510, 51627), (532, 51576), (544, 51552), (548, 51534), (574, 51516), (575, 51513), (583, 51486), (599, 51444), (624, 51399), (684, 51264), (688, 51249), (694, 51228), (733, 51171), (743, 51147), (761, 51087), (762, 51081), (764, 51075), (765, 51069), (777, 51018), (782, 50994), (791, 50955), (797, 50943), (798, 50940), (837, 50847), (845, 50832), (855, 50811),

Gene: Cborch11_63 Start: 46091, Stop: 48148, Start Num: 56

Candidate Starts for Cborch11_63:

(Start: 56 @46091 has 54 MA's), (84, 46151), (85, 46154), (Start: 126 @46247 has 3 MA's), (130, 46259), (138, 46280), (191, 46403), (193, 46406), (197, 46415), (216, 46448), (222, 46469), (229, 46517), (240, 46559), (273, 46622), (282, 46643), (283, 46649), (303, 46703), (398, 46889), (403, 46901), (410, 46919), (420, 46934), (422, 46940), (532, 47258), (534, 47261), (549, 47306), (573, 47357), (577, 47369), (610, 47459), (616, 47471), (632, 47504), (649, 47528), (653, 47537), (702, 47627), (712, 47660), (752, 47771), (753, 47774), (754, 47777), (755, 47780), (765, 47816), (768, 47834), (783, 47900), (787, 47918), (857, 48095),

Gene: Cece_97 Start: 81318, Stop: 79462, Start Num: 59

Candidate Starts for Cece_97:

(Start: 59 @81318 has 1 MA's), (88, 81255), (124, 81186), (172, 81078), (Start: 227 @80991 has 28 MA's), (255, 80901), (273, 80868), (276, 80862), (301, 80790), (382, 80709), (384, 80703), (427, 80544), (476, 80400), (494, 80340), (508, 80310), (532, 80250), (536, 80241), (575, 80184), (577, 80178), (586, 80145), (590, 80133), (605, 80100), (635, 80040), (702, 79911), (703, 79908), (710, 79881), (730, 79839), (735, 79818), (764, 79731), (782, 79650), (792, 79608), (802, 79584), (822, 79527),

Gene: Chako_40 Start: 30803, Stop: 29415, Start Num: 370

Candidate Starts for Chako_40:

(120, 31454), (242, 31100), (274, 31025), (Start: 370 @30803 has 138 MA's), (419, 30659), (421, 30653), (422, 30650), (463, 30536), (474, 30509), (490, 30449), (499, 30422), (501, 30419), (538, 30323), (550, 30281), (594, 30110), (601, 30089), (606, 30074), (632, 30014), (670, 29954), (702, 29858), (725, 29795), (743, 29741), (762, 29657), (764, 29651), (766, 29639), (789, 29543), (810, 29489), (811, 29486), (820, 29462),

Gene: ChamoyPickle_40 Start: 26916, Stop: 25084, Start Num: 65

Candidate Starts for ChamoyPickle_40:

(Start: 65 @26916 has 9 MA's), (88, 26859), (187, 26658), (239, 26523), (292, 26388), (306, 26361), (385, 26304), (390, 26289), (408, 26235), (427, 26139), (429, 26133), (433, 26118), (452, 26073), (465, 26025), (473, 26004), (477, 25986), (493, 25935), (531, 25842), (536, 25830), (577, 25767),

(609, 25695), (638, 25635), (655, 25614), (688, 25548), (695, 25530), (701, 25512), (702, 25509), (713, 25473), (753, 25365), (756, 25356), (771, 25296), (782, 25248),

Gene: Chamuel_40 Start: 30828, Stop: 29407, Start Num: 370

Candidate Starts for Chamuel_40:

(274, 31050), (Start: 370 @30828 has 138 MA's), (419, 30684), (421, 30678), (422, 30675), (463, 30561), (474, 30534), (490, 30474), (499, 30447), (501, 30444), (538, 30348), (550, 30306), (590, 30144), (594, 30135), (601, 30114), (612, 30087), (626, 30054), (632, 30039), (664, 29964), (670, 29946), (702, 29850), (725, 29787), (743, 29733), (762, 29649), (764, 29643), (766, 29631), (783, 29556), (789, 29535), (810, 29481), (811, 29478), (820, 29454),

Gene: Charianelly_57 Start: 52738, Stop: 51197, Start Num: 158

Candidate Starts for Charianelly_57:

(72, 52957), (123, 52828), (Start: 158 @52738 has 3 MA's), (Start: 227 @52609 has 28 MA's), (239, 52564), (272, 52474), (273, 52471), (276, 52465), (283, 52444), (317, 52381), (394, 52303), (406, 52273), (421, 52255), (462, 52168), (465, 52153), (478, 52111), (511, 52030), (532, 51982), (548, 51940), (574, 51922), (575, 51919), (583, 51892), (602, 51841), (624, 51805), (646, 51754), (684, 51670), (690, 51649), (761, 51493), (762, 51487), (765, 51475), (797, 51349), (845, 51235),

Gene: Charminar_60 Start: 39177, Stop: 41090, Start Num: 56

Candidate Starts for Charminar_60:

(Start: 55 @39174 has 13 MA's), (Start: 56 @39177 has 54 MA's), (Start: 70 @39189 has 16 MA's), (86, 39237), (105, 39270), (171, 39429), (184, 39456), (188, 39465), (226, 39537), (273, 39657), (295, 39720), (350, 39810), (361, 39837), (420, 39966), (427, 39990), (441, 40032), (446, 40044), (455, 40059), (460, 40080), (465, 40101), (473, 40122), (490, 40179), (495, 40197), (511, 40233), (529, 40275), (549, 40335), (586, 40431), (587, 40434), (685, 40611), (708, 40662), (743, 40752), (753, 40788), (755, 40794), (768, 40848), (779, 40887), (808, 40989), (813, 41004), (822, 41025),

Gene: Cheeto1_42 Start: 31179, Stop: 29788, Start Num: 370

Candidate Starts for Cheeto1_42:

(Start: 370 @31179 has 138 MA's), (419, 31035), (421, 31029), (441, 30966), (474, 30885), (490, 30825), (499, 30798), (501, 30795), (538, 30699), (550, 30657), (575, 30546), (594, 30486), (601, 30465), (612, 30438), (635, 30387), (661, 30357), (670, 30330), (676, 30318), (702, 30231), (725, 30168), (731, 30156), (747, 30096), (753, 30060), (755, 30054), (761, 30036), (762, 30030), (764, 30024), (776, 29970), (789, 29916), (802, 29889), (805, 29877),

Gene: Chelms_59 Start: 52169, Stop: 50760, Start Num: 227

Candidate Starts for Chelms_59:

(72, 52547), (89, 52496), (114, 52445), (133, 52391), (145, 52361), (Start: 158 @52328 has 3 MA's), (164, 52319), (Start: 176 @52292 has 28 MA's), (Start: 227 @52169 has 28 MA's), (239, 52124), (251, 52082), (272, 52034), (273, 52031), (276, 52025), (277, 52022), (282, 52010), (283, 52004), (306, 51956), (308, 51953), (406, 51833), (421, 51815), (441, 51752), (462, 51728), (465, 51713), (478, 51671), (494, 51620), (510, 51593), (532, 51542), (574, 51482), (575, 51479), (578, 51470), (583, 51452), (599, 51410), (624, 51365), (625, 51362), (684, 51230), (688, 51215), (694, 51194), (743, 51113), (744, 51110), (761, 51053), (762, 51047), (765, 51035), (777, 50984), (781, 50969), (782, 50960), (791, 50921), (797, 50909), (837, 50813), (845, 50798),

Gene: Chepli_42 Start: 30524, Stop: 29118, Start Num: 373

Candidate Starts for Chepli_42:

(Start: 373 @30524 has 21 MA's), (383, 30494), (420, 30377), (421, 30374), (422, 30371), (430, 30344), (441, 30311), (451, 30290), (463, 30248), (474, 30221), (499, 30134), (501, 30131), (516, 30089), (536, 30038), (576, 29876), (594, 29819), (615, 29759), (621, 29750), (626, 29738), (658, 29699), (659, 29696), (667, 29672), (668, 29669), (670, 29663), (698, 29576), (702, 29567), (703,

29564), (753, 29396), (756, 29387), (761, 29372), (762, 29366), (764, 29360), (766, 29348), (802, 29225), (809, 29201), (820, 29171),

Gene: ChewChew_25 Start: 20575, Stop: 21969, Start Num: 212

Candidate Starts for ChewChew_25:

(Start: 212 @20575 has 74 MA's), (232, 20632), (279, 20737), (280, 20740), (320, 20824), (385, 20857), (420, 20908), (422, 20914), (458, 20995), (459, 20998), (462, 21004), (473, 21040), (477, 21058), (478, 21061), (489, 21094), (495, 21115), (577, 21247), (585, 21274), (601, 21313), (610, 21334), (612, 21340), (627, 21373), (633, 21388), (637, 21397), (659, 21442), (671, 21478), (690, 21520), (708, 21583), (714, 21601), (753, 21703), (754, 21706), (760, 21724), (761, 21727), (766, 21751), (767, 21760), (789, 21847), (823, 21937), (834, 21961),

Gene: ChewyVIII_83 Start: 61890, Stop: 59662, Start Num: 40

Candidate Starts for ChewyVIII_83:

(Start: 40 @61890 has 1 MA's), (167, 61581), (188, 61530), (213, 61485), (251, 61377), (282, 61323), (289, 61293), (299, 61269), (322, 61233), (335, 61212), (352, 61173), (355, 61167), (413, 60918), (446, 60777), (451, 60768), (462, 60735), (465, 60720), (481, 60666), (497, 60621), (509, 60597), (565, 60450), (569, 60432), (577, 60414), (587, 60378), (611, 60324), (623, 60306), (676, 60195), (689, 60153), (718, 60063), (753, 59958), (759, 59940), (780, 59853), (785, 59823), (787, 59814), (807, 59763), (815, 59739), (819, 59730), (831, 59706), (840, 59688),

Gene: ChickenKing_40 Start: 31093, Stop: 29702, Start Num: 370

Candidate Starts for ChickenKing_40:

(Start: 370 @31093 has 138 MA's), (419, 30949), (421, 30943), (441, 30880), (474, 30799), (490, 30739), (499, 30712), (501, 30709), (506, 30703), (538, 30613), (550, 30571), (594, 30400), (601, 30379), (606, 30364), (612, 30352), (635, 30301), (670, 30244), (676, 30232), (725, 30082), (731, 30070), (747, 30010), (753, 29974), (755, 29968), (761, 29950), (762, 29944), (764, 29938), (776, 29884), (783, 29851), (789, 29830), (805, 29791),

Gene: ChikPic_40 Start: 30953, Stop: 29541, Start Num: 376

Candidate Starts for ChikPic_40:

(Start: 372 @30956 has 8 MA's), (Start: 376 @30953 has 23 MA's), (385, 30923), (Start: 387 @30917 has 1 MA's), (400, 30884), (463, 30692), (474, 30665), (490, 30605), (499, 30578), (501, 30575), (516, 30533), (538, 30479), (550, 30437), (576, 30323), (594, 30266), (601, 30245), (606, 30230), (612, 30218), (615, 30206), (617, 30203), (626, 30185), (658, 30104), (670, 30068), (689, 30014), (701, 29972), (710, 29942), (722, 29918), (724, 29912), (739, 29870), (753, 29801), (761, 29777), (762, 29771), (764, 29765), (766, 29753), (789, 29657), (794, 29648), (802, 29630), (805, 29618), (822, 29573),

Gene: Chill_55 Start: 39836, Stop: 41779, Start Num: 56

Candidate Starts for Chill_55:

(Start: 56 @39836 has 54 MA's), (74, 39863), (Start: 106 @39935 has 1 MA's), (127, 39989), (151, 40049), (159, 40067), (163, 40076), (187, 40127), (208, 40169), (226, 40205), (251, 40292), (291, 40385), (299, 40400), (313, 40421), (Start: 370 @40523 has 138 MA's), (385, 40556), (394, 40580), (422, 40640), (455, 40727), (476, 40802), (511, 40892), (532, 40943), (534, 40946), (569, 41036), (577, 41054), (586, 41087), (610, 41141), (616, 41153), (626, 41171), (662, 41234), (700, 41318), (743, 41435), (753, 41483), (769, 41546), (787, 41630),

Gene: Chilliams_99 Start: 73536, Stop: 75392, Start Num: 63

Candidate Starts for Chilliams_99:

(Start: 63 @73536 has 11 MA's), (161, 73752), (181, 73794), (184, 73800), (222, 73833), (236, 73902), (239, 73917), (251, 73953), (272, 73992), (301, 74073), (384, 74133), (420, 74268), (517, 74550), (536, 74595), (577, 74658), (586, 74691), (590, 74703), (611, 74751), (623, 74769), (652, 74814),

(665, 74835), (676, 74856), (688, 74895), (700, 74928), (710, 74964), (718, 74979), (730, 75006), (742, 75042), (744, 75048), (775, 75165), (782, 75195), (831, 75336),

Gene: ChipsNGuac_39 Start: 26376, Stop: 24544, Start Num: 65

Candidate Starts for ChipsNGuac_39:

(Start: 65 @26376 has 9 MA's), (88, 26319), (187, 26118), (239, 25983), (292, 25848), (306, 25821), (385, 25764), (390, 25749), (408, 25695), (427, 25599), (429, 25593), (433, 25578), (452, 25533), (465, 25485), (473, 25464), (477, 25446), (493, 25395), (531, 25302), (536, 25290), (577, 25227), (609, 25155), (638, 25095), (655, 25074), (688, 25008), (695, 24990), (701, 24972), (702, 24969), (713, 24933), (753, 24825), (756, 24816), (771, 24756), (782, 24708),

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

Candidate Starts for Chivey_40:

(17, 24995), (Start: 68 @25169 has 34 MA's), (96, 25232), (109, 25253), (128, 25307), (191, 25442), (216, 25484), (231, 25529), (298, 25703), (306, 25712), (355, 25802), (Start: 370 @25844 has 138 MA's), (378, 25859), (443, 26045), (490, 26180), (493, 26192), (510, 26225), (577, 26354), (626, 26471), (743, 26744), (754, 26783), (768, 26843), (788, 26933), (802, 26963), (815, 27005), (840, 27056),

Gene: Cholula_29 Start: 22153, Stop: 23553, Start Num: 212

Candidate Starts for Cholula_29:

(Start: 212 @22153 has 74 MA's), (232, 22216), (279, 22321), (280, 22324), (320, 22408), (385, 22441), (420, 22492), (422, 22498), (458, 22579), (459, 22582), (462, 22588), (473, 22624), (477, 22642), (478, 22645), (495, 22699), (523, 22750), (577, 22831), (585, 22858), (596, 22888), (601, 22897), (612, 22924), (627, 22957), (633, 22972), (659, 23026), (666, 23047), (670, 23059), (678, 23071), (755, 23293), (758, 23302), (760, 23308), (767, 23344), (782, 23404), (789, 23431), (823, 23521),

Gene: Chridison_26 Start: 21746, Stop: 23140, Start Num: 212

Candidate Starts for Chridison_26:

(Start: 212 @21746 has 74 MA's), (232, 21803), (269, 21890), (279, 21908), (280, 21911), (320, 21995), (385, 22028), (420, 22079), (422, 22085), (441, 22145), (462, 22175), (473, 22211), (477, 22229), (495, 22286), (508, 22304), (510, 22310), (523, 22337), (577, 22418), (585, 22445), (593, 22469), (601, 22484), (612, 22511), (627, 22544), (633, 22559), (648, 22586), (700, 22727), (708, 22754), (712, 22766), (721, 22784), (736, 22826), (753, 22874), (755, 22880), (760, 22895), (761, 22898), (767, 22931), (782, 22991), (789, 23018), (809, 23075), (823, 23108), (834, 23132),

Gene: Christian_25 Start: 20576, Stop: 21970, Start Num: 212

Candidate Starts for Christian_25:

(Start: 212 @20576 has 74 MA's), (232, 20633), (279, 20738), (280, 20741), (320, 20825), (385, 20858), (422, 20915), (458, 20996), (459, 20999), (462, 21005), (473, 21041), (477, 21059), (478, 21062), (489, 21095), (495, 21116), (577, 21248), (585, 21275), (601, 21314), (610, 21335), (612, 21341), (627, 21374), (633, 21389), (637, 21398), (659, 21443), (671, 21479), (690, 21521), (708, 21584), (714, 21602), (753, 21704), (754, 21707), (760, 21725), (761, 21728), (766, 21752), (767, 21761), (789, 21848), (823, 21938), (834, 21962),

Gene: Christoph_40 Start: 30815, Stop: 29427, Start Num: 370

Candidate Starts for Christoph_40:

(274, 31037), (Start: 370 @30815 has 138 MA's), (419, 30671), (421, 30665), (422, 30662), (463, 30548), (474, 30521), (490, 30461), (499, 30434), (501, 30431), (538, 30335), (550, 30293), (594, 30122), (601, 30101), (606, 30086), (632, 30026), (670, 29966), (702, 29870), (725, 29807), (743, 29753), (762, 29669), (764, 29663), (766, 29651), (789, 29555), (810, 29501), (811, 29498), (820, 29474),

Gene: Cicada_35 Start: 23458, Stop: 24885, Start Num: 217

Candidate Starts for Cicada_35:

(Start: 217 @23458 has 16 MA's), (397, 23776), (421, 23815), (441, 23878), (465, 23923), (473, 23944), (510, 24043), (591, 24211), (612, 24259), (622, 24280), (633, 24307), (646, 24334), (659, 24364), (660, 24367), (661, 24370), (677, 24406), (702, 24484), (733, 24568), (743, 24586), (744, 24589), (767, 24676), (771, 24688), (781, 24727), (789, 24763), (791, 24769), (807, 24814), (818, 24844),

Gene: CinnamonToast_65 Start: 53852, Stop: 52284, Start Num: 158

Candidate Starts for CinnamonToast_65:

(72, 54071), (89, 54020), (123, 53942), (133, 53915), (145, 53885), (Start: 158 @53852 has 3 MA's), (164, 53843), (Start: 176 @53816 has 28 MA's), (239, 53648), (251, 53606), (259, 53588), (272, 53558), (277, 53546), (283, 53528), (306, 53480), (421, 53339), (462, 53252), (465, 53237), (470, 53225), (478, 53195), (494, 53144), (532, 53066), (544, 53042), (548, 53024), (574, 53006), (575, 53003), (578, 52994), (583, 52976), (624, 52889), (684, 52754), (688, 52739), (694, 52718), (733, 52661), (743, 52637), (744, 52634), (761, 52577), (762, 52571), (765, 52559), (777, 52508), (782, 52484), (791, 52445), (797, 52433), (798, 52430), (837, 52337), (845, 52322), (855, 52301),

Gene: Clancy_40 Start: 30848, Stop: 29460, Start Num: 370

Candidate Starts for Clancy_40:

(120, 31499), (242, 31145), (274, 31070), (Start: 370 @30848 has 138 MA's), (419, 30704), (421, 30698), (422, 30695), (463, 30581), (474, 30554), (490, 30494), (499, 30467), (501, 30464), (538, 30368), (550, 30326), (594, 30155), (601, 30134), (606, 30119), (632, 30059), (670, 29999), (702, 29903), (725, 29840), (743, 29786), (762, 29702), (764, 29696), (766, 29684), (789, 29588), (810, 29534), (811, 29531), (820, 29507),

Gene: Clock_40 Start: 31950, Stop: 30520, Start Num: 370

Candidate Starts for Clock_40:

(Start: 370 @31950 has 138 MA's), (383, 31917), (400, 31872), (421, 31797), (422, 31794), (469, 31662), (473, 31650), (499, 31557), (501, 31554), (591, 31248), (594, 31242), (601, 31221), (612, 31194), (615, 31182), (617, 31179), (626, 31161), (653, 31104), (670, 31047), (676, 31035), (689, 30993), (698, 30960), (702, 30951), (709, 30927), (725, 30888), (743, 30834), (753, 30780), (756, 30771), (761, 30756), (762, 30750), (794, 30627), (802, 30609), (809, 30585),

Gene: CoffeeBean_72 Start: 53090, Stop: 51054, Start Num: 37

Candidate Starts for CoffeeBean_72:

(12, 53258), (Start: 37 @53090 has 6 MA's), (60, 53024), (79, 52982), (128, 52877), (213, 52697), (236, 52640), (251, 52589), (259, 52574), (298, 52484), (306, 52472), (355, 52379), (390, 52307), (422, 52238), (446, 52166), (465, 52109), (532, 51929), (542, 51905), (565, 51842), (577, 51806), (610, 51719), (676, 51587), (688, 51548), (689, 51545), (702, 51500), (753, 51353), (769, 51290), (780, 51248), (787, 51209), (800, 51185),

Gene: ColaCorta_40 Start: 31099, Stop: 29687, Start Num: 376

Candidate Starts for ColaCorta_40:

(Start: 376 @31099 has 23 MA's), (385, 31069), (Start: 387 @31063 has 1 MA's), (400, 31030), (463, 30838), (474, 30811), (490, 30751), (499, 30724), (501, 30721), (516, 30679), (538, 30625), (550, 30583), (576, 30469), (594, 30412), (601, 30391), (606, 30376), (612, 30364), (615, 30352), (617, 30349), (626, 30331), (658, 30250), (670, 30214), (689, 30160), (701, 30118), (710, 30088), (722, 30064), (724, 30058), (739, 30016), (753, 29947), (761, 29923), (762, 29917), (764, 29911), (766, 29899), (789, 29803), (794, 29794), (802, 29776), (805, 29764), (822, 29719),

Gene: Commandaria_72 Start: 56463, Stop: 54385, Start Num: 36

Candidate Starts for Commandaria_72:

(Start: 36 @56463 has 34 MA's), (Start: 63 @56391 has 11 MA's), (111, 56277), (208, 56058), (213, 56049), (216, 56046), (251, 55941), (282, 55887), (306, 55824), (355, 55734), (Start: 387 @55671 has 1 MA's), (389, 55665), (441, 55533), (450, 55515), (532, 55260), (542, 55236), (577, 55134), (594, 55080), (602, 55065), (604, 55059), (641, 54984), (662, 54945), (689, 54876), (701, 54840), (702, 54837), (710, 54807), (730, 54765), (753, 54690), (769, 54627), (787, 54546), (819, 54462), (831, 54438),

Gene: Convict_41 Start: 31118, Stop: 29730, Start Num: 370

Candidate Starts for Convict_41:

(120, 31769), (242, 31415), (274, 31340), (Start: 370 @31118 has 138 MA's), (419, 30974), (421, 30968), (422, 30965), (463, 30851), (474, 30824), (490, 30764), (499, 30737), (501, 30734), (538, 30638), (550, 30596), (594, 30425), (601, 30404), (612, 30377), (632, 30329), (670, 30269), (725, 30110), (743, 30056), (762, 29972), (764, 29966), (766, 29954), (789, 29858), (810, 29804), (811, 29801), (820, 29777),

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

Candidate Starts for CoolCookie_40:

(Start: 68 @25941 has 34 MA's), (96, 26004), (109, 26025), (128, 26079), (216, 26256), (231, 26301), (298, 26475), (306, 26484), (355, 26574), (378, 26631), (443, 26817), (490, 26952), (493, 26964), (510, 26997), (577, 27126), (626, 27243), (676, 27318), (753, 27552), (754, 27555), (768, 27615), (788, 27705), (802, 27735), (815, 27777), (840, 27828),

Gene: CoraRita_42 Start: 30818, Stop: 29430, Start Num: 370

Candidate Starts for CoraRita_42:

(120, 31469), (242, 31115), (274, 31040), (Start: 370 @30818 has 138 MA's), (419, 30674), (421, 30668), (422, 30665), (463, 30551), (474, 30524), (490, 30464), (499, 30437), (501, 30434), (538, 30338), (550, 30296), (594, 30125), (601, 30104), (606, 30089), (632, 30029), (670, 29969), (702, 29873), (725, 29810), (743, 29756), (762, 29672), (764, 29666), (766, 29654), (789, 29558), (810, 29504), (811, 29501), (820, 29477),

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

Candidate Starts for Crestdrop_40:

(17, 25029), (Start: 68 @25203 has 34 MA's), (96, 25266), (109, 25287), (128, 25341), (191, 25476), (216, 25518), (231, 25563), (298, 25737), (306, 25746), (355, 25836), (Start: 370 @25878 has 138 MA's), (378, 25893), (443, 26079), (490, 26214), (493, 26226), (510, 26259), (577, 26388), (626, 26505), (743, 26778), (754, 26817), (768, 26877), (788, 26967), (802, 26997), (815, 27039), (840, 27090),

Gene: Crete_60 Start: 52291, Stop: 50882, Start Num: 227

Candidate Starts for Crete_60:

(72, 52669), (89, 52618), (114, 52567), (133, 52513), (145, 52483), (Start: 158 @52450 has 3 MA's), (164, 52441), (Start: 176 @52414 has 28 MA's), (Start: 227 @52291 has 28 MA's), (239, 52246), (251, 52204), (272, 52156), (273, 52153), (276, 52147), (277, 52144), (282, 52132), (283, 52126), (306, 52078), (308, 52075), (406, 51955), (421, 51937), (441, 51874), (462, 51850), (465, 51835), (478, 51793), (494, 51742), (510, 51715), (532, 51664), (574, 51604), (575, 51601), (578, 51592), (583, 51574), (599, 51532), (624, 51487), (631, 51469), (684, 51352), (688, 51337), (694, 51316), (743, 51235), (744, 51232), (761, 51175), (762, 51169), (765, 51157), (777, 51106), (781, 51091), (782, 51082), (791, 51043), (797, 51031), (837, 50935), (845, 50920),

Gene: CristinaYang_25 Start: 20580, Stop: 21974, Start Num: 212

Candidate Starts for CristinaYang_25:

(Start: 212 @20580 has 74 MA's), (232, 20637), (279, 20742), (280, 20745), (320, 20829), (385, 20862), (420, 20913), (422, 20919), (458, 21000), (459, 21003), (462, 21009), (473, 21045), (477, 21063), (478, 21066), (489, 21099), (495, 21120), (577, 21252), (585, 21279), (601, 21318), (610, 21339), (612, 21345), (627, 21378), (633, 21393), (637, 21402), (659, 21447), (671, 21483), (690, 21525), (708, 21588), (714, 21606), (753, 21708), (754, 21711), (760, 21729), (761, 21732), (766, 21756), (767, 21765), (789, 21852), (823, 21942), (834, 21966),

Gene: Crosby_42 Start: 31144, Stop: 32538, Start Num: 218

Candidate Starts for Crosby_42:

(Start: 218 @31144 has 13 MA's), (Start: 219 @31147 has 3 MA's), (239, 31222), (248, 31246), (250, 31252), (272, 31276), (279, 31291), (280, 31294), (311, 31366), (329, 31381), (391, 31417), (441, 31516), (476, 31594), (524, 31717), (591, 31852), (603, 31879), (612, 31900), (648, 31978), (661, 32011), (664, 32020), (682, 32062), (701, 32128), (702, 32131), (708, 32152), (714, 32170), (724, 32188), (744, 32242), (753, 32272), (767, 32329), (768, 32332), (781, 32380), (790, 32419), (797, 32434), (821, 32503), (829, 32521), (834, 32530),

Gene: Cruella_72 Start: 52724, Stop: 50799, Start Num: 69

Candidate Starts for Cruella_72:

(Start: 33 @52817 has 1 MA's), (Start: 69 @52724 has 8 MA's), (144, 52553), (167, 52499), (189, 52445), (251, 52295), (331, 52139), (355, 52088), (357, 52085), (421, 51956), (422, 51953), (446, 51881), (451, 51872), (577, 51515), (586, 51482), (676, 51296), (755, 51077), (759, 51065), (764, 51047), (769, 51020), (783, 50957), (794, 50924), (820, 50852),

Gene: Cuke_73 Start: 42303, Stop: 44156, Start Num: 98

Candidate Starts for Cuke_73:

(Start: 98 @42303 has 3 MA's), (152, 42423), (197, 42516), (216, 42549), (243, 42642), (248, 42651), (251, 42660), (271, 42690), (273, 42693), (291, 42750), (310, 42786), (318, 42798), (335, 42825), (343, 42849), (363, 42888), (385, 42942), (395, 42972), (403, 42990), (407, 43002), (462, 43143), (505, 43269), (529, 43326), (532, 43338), (577, 43440), (586, 43473), (591, 43488), (603, 43512), (604, 43515), (616, 43539), (635, 43578), (731, 43773), (753, 43863), (755, 43869), (764, 43899), (785, 43998), (806, 44058), (812, 44076), (816, 44088), (841, 44133), (846, 44139),

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

Candidate Starts for Cybele_40:

(Start: 68 @25911 has 34 MA's), (96, 25974), (109, 25995), (128, 26049), (216, 26226), (231, 26271), (298, 26445), (306, 26454), (355, 26544), (443, 26787), (490, 26922), (493, 26934), (510, 26967), (577, 27096), (626, 27213), (676, 27288), (753, 27522), (754, 27525), (768, 27585), (788, 27675), (802, 27705), (815, 27747), (840, 27798),

Gene: Daiboju_26 Start: 21732, Stop: 23129, Start Num: 212

Candidate Starts for Daiboju_26:

(Start: 212 @21732 has 74 MA's), (232, 21792), (269, 21879), (279, 21897), (280, 21900), (320, 21984), (323, 21990), (385, 22017), (420, 22068), (422, 22074), (435, 22125), (441, 22134), (458, 22155), (462, 22164), (473, 22200), (478, 22221), (489, 22254), (495, 22275), (508, 22293), (510, 22299), (523, 22326), (531, 22338), (537, 22353), (577, 22407), (593, 22458), (596, 22464), (601, 22473), (603, 22479), (612, 22500), (627, 22533), (633, 22548), (637, 22557), (690, 22680), (701, 22719), (708, 22743), (712, 22755), (753, 22863), (755, 22869), (758, 22878), (760, 22884), (767, 22920), (789, 23007), (823, 23097), (834, 23121),

Gene: Dakiti_60 Start: 53037, Stop: 51628, Start Num: 227

Candidate Starts for Dakiti_60:

(72, 53415), (89, 53364), (114, 53313), (133, 53259), (145, 53229), (Start: 158 @53196 has 3 MA's), (164, 53187), (Start: 176 @53160 has 28 MA's), (Start: 227 @53037 has 28 MA's), (239, 52992), (251,

52950), (272, 52902), (273, 52899), (276, 52893), (277, 52890), (282, 52878), (283, 52872), (306, 52824), (308, 52821), (406, 52701), (421, 52683), (441, 52620), (462, 52596), (465, 52581), (478, 52539), (494, 52488), (510, 52461), (532, 52410), (574, 52350), (575, 52347), (578, 52338), (583, 52320), (599, 52278), (624, 52233), (625, 52230), (684, 52098), (688, 52083), (694, 52062), (743, 51981), (744, 51978), (761, 51921), (762, 51915), (765, 51903), (777, 51852), (781, 51837), (782, 51828), (791, 51789), (797, 51777), (837, 51681), (845, 51666),

Gene: Dalilpop_75 Start: 57466, Stop: 55409, Start Num: 36

Candidate Starts for Dalilpop_75:

(Start: 36 @57466 has 34 MA's), (251, 56953), (282, 56899), (303, 56839), (306, 56836), (355, 56746), (362, 56728), (Start: 387 @56683 has 1 MA's), (389, 56677), (404, 56638), (428, 56584), (450, 56527), (495, 56380), (508, 56347), (518, 56317), (521, 56311), (532, 56284), (534, 56281), (577, 56161), (602, 56092), (610, 56074), (662, 55969), (666, 55960), (689, 55900), (702, 55861), (710, 55831), (733, 55774), (753, 55714), (762, 55684), (769, 55651), (780, 55609), (835, 55453),

Gene: Damien_61 Start: 46053, Stop: 48110, Start Num: 56

Candidate Starts for Damien_61:

(Start: 56 @46053 has 54 MA's), (84, 46113), (85, 46116), (Start: 126 @46209 has 3 MA's), (130, 46221), (138, 46242), (191, 46365), (193, 46368), (197, 46377), (216, 46410), (222, 46431), (229, 46479), (240, 46521), (273, 46584), (282, 46605), (283, 46611), (303, 46665), (398, 46851), (403, 46863), (410, 46881), (420, 46896), (422, 46902), (532, 47220), (534, 47223), (549, 47268), (573, 47319), (577, 47331), (610, 47421), (616, 47433), (632, 47466), (649, 47490), (653, 47499), (702, 47589), (712, 47622), (752, 47733), (753, 47736), (754, 47739), (755, 47742), (765, 47778), (768, 47796), (783, 47862), (787, 47880), (857, 48057),

Gene: Damp_57 Start: 51773, Stop: 50361, Start Num: 227

Candidate Starts for Damp_57:

(72, 52121), (123, 51992), (156, 51905), (Start: 158 @51902 has 3 MA's), (Start: 227 @51773 has 28 MA's), (239, 51728), (272, 51638), (273, 51635), (276, 51629), (283, 51608), (317, 51545), (406, 51437), (421, 51419), (462, 51332), (465, 51317), (478, 51275), (511, 51194), (532, 51146), (548, 51104), (574, 51086), (575, 51083), (583, 51056), (602, 51005), (624, 50969), (646, 50918), (684, 50834), (690, 50813), (761, 50657), (762, 50651), (765, 50639), (797, 50513), (845, 50399),

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

Candidate Starts for DannyDe_40:

(17, 25001), (Start: 68 @25175 has 34 MA's), (96, 25238), (128, 25313), (191, 25448), (216, 25490), (231, 25535), (298, 25709), (306, 25718), (355, 25808), (Start: 370 @25850 has 138 MA's), (378, 25865), (443, 26051), (490, 26186), (493, 26198), (510, 26231), (577, 26360), (626, 26477), (743, 26750), (754, 26789), (768, 26849), (788, 26939), (802, 26969), (815, 27011), (840, 27062),

Gene: Darwin_73 Start: 51965, Stop: 50040, Start Num: 69

Candidate Starts for Darwin_73:

(Start: 33 @52058 has 1 MA's), (Start: 69 @51965 has 8 MA's), (144, 51794), (167, 51740), (251, 51536), (331, 51380), (355, 51329), (357, 51326), (379, 51284), (421, 51197), (422, 51194), (446, 51122), (451, 51113), (577, 50756), (586, 50723), (611, 50666), (733, 50384), (755, 50318), (759, 50306), (764, 50288), (765, 50282), (769, 50261), (783, 50198), (794, 50165), (808, 50126),

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

Candidate Starts for Dauntless_39:

(17, 25323), (Start: 68 @25497 has 34 MA's), (96, 25560), (109, 25581), (128, 25635), (191, 25770), (207, 25797), (216, 25812), (231, 25857), (298, 26031), (306, 26040), (355, 26130), (Start: 370 @26172 has 138 MA's), (378, 26187), (443, 26373), (490, 26508), (493, 26520), (510, 26553), (577, 26682), (610, 26769), (626, 26799), (743, 27072), (754, 27111), (768, 27171), (788, 27261), (802,

27291), (815, 27333), (840, 27384),

Gene: Dave_41 Start: 31109, Stop: 29721, Start Num: 370

Candidate Starts for Dave_41:

(274, 31331), (Start: 370 @31109 has 138 MA's), (419, 30965), (421, 30959), (422, 30956), (463, 30842), (474, 30815), (490, 30755), (499, 30728), (501, 30725), (538, 30629), (550, 30587), (594, 30416), (601, 30395), (606, 30380), (612, 30368), (632, 30320), (670, 30260), (702, 30164), (725, 30101), (743, 30047), (762, 29963), (764, 29957), (766, 29945), (783, 29870), (789, 29849), (810, 29795), (811, 29792), (820, 29768),

Gene: DaviePasture_60 Start: 40751, Stop: 42664, Start Num: 56

Candidate Starts for DaviePasture_60:

(50, 40736), (Start: 55 @40748 has 13 MA's), (Start: 56 @40751 has 54 MA's), (Start: 70 @40763 has 16 MA's), (86, 40811), (132, 40913), (171, 41003), (184, 41030), (188, 41039), (226, 41111), (251, 41198), (273, 41231), (295, 41294), (307, 41312), (350, 41384), (361, 41411), (420, 41540), (427, 41564), (441, 41606), (460, 41654), (465, 41675), (473, 41696), (490, 41753), (495, 41771), (511, 41807), (529, 41849), (549, 41909), (586, 42005), (587, 42008), (708, 42236), (743, 42326), (753, 42362), (755, 42368), (768, 42422), (779, 42461), (808, 42563), (813, 42578), (822, 42599),

Gene: Delphidian_41 Start: 31117, Stop: 29729, Start Num: 370

Candidate Starts for Delphidian_41:

(274, 31339), (Start: 370 @31117 has 138 MA's), (419, 30973), (421, 30967), (422, 30964), (463, 30850), (474, 30823), (490, 30763), (499, 30736), (501, 30733), (506, 30727), (538, 30637), (550, 30595), (594, 30424), (606, 30388), (612, 30376), (626, 30343), (632, 30328), (670, 30268), (702, 30172), (725, 30109), (743, 30055), (762, 29971), (764, 29965), (766, 29953), (789, 29857), (810, 29803), (811, 29800), (820, 29776),

Gene: Delton_54 Start: 40127, Stop: 42070, Start Num: 56

Candidate Starts for Delton_54:

(32, 40058), (Start: 56 @40127 has 54 MA's), (74, 40154), (82, 40178), (Start: 106 @40226 has 1 MA's), (127, 40280), (151, 40340), (163, 40367), (187, 40418), (188, 40421), (208, 40460), (226, 40496), (251, 40583), (291, 40676), (299, 40691), (313, 40712), (Start: 370 @40814 has 138 MA's), (385, 40847), (394, 40871), (422, 40931), (455, 41018), (476, 41093), (511, 41183), (532, 41234), (534, 41237), (569, 41327), (577, 41345), (586, 41378), (610, 41432), (616, 41444), (626, 41462), (662, 41525), (700, 41609), (743, 41726), (753, 41774), (769, 41837), (787, 41921),

Gene: Demikore_78 Start: 49350, Stop: 51383, Start Num: 62

Candidate Starts for Demikore_78:

(Start: 62 @49350 has 8 MA's), (74, 49374), (Start: 99 @49437 has 2 MA's), (128, 49503), (149, 49554), (150, 49557), (197, 49665), (216, 49698), (229, 49737), (Start: 237 @49761 has 1 MA's), (259, 49824), (273, 49842), (275, 49845), (282, 49863), (283, 49869), (313, 49938), (331, 49965), (339, 49977), (359, 50010), (398, 50112), (446, 50235), (458, 50265), (490, 50370), (495, 50388), (531, 50478), (532, 50481), (559, 50583), (567, 50622), (573, 50649), (577, 50661), (591, 50709), (598, 50727), (610, 50754), (616, 50766), (623, 50775), (702, 50913), (718, 50958), (752, 51063), (783, 51192), (794, 51225), (802, 51243), (820, 51297), (840, 51336),

Gene: Demosthenes_55 Start: 52768, Stop: 51074, Start Num: 99

Candidate Starts for Demosthenes_55:

(Start: 95 @52780 has 9 MA's), (Start: 99 @52768 has 2 MA's), (140, 52669), (Start: 148 @52648 has 1 MA's), (178, 52582), (229, 52483), (239, 52447), (243, 52423), (248, 52414), (251, 52405), (272, 52357), (282, 52333), (296, 52291), (308, 52276), (317, 52261), (Start: 387 @52204 has 1 MA's), (388, 52201), (419, 52141), (420, 52138), (441, 52072), (445, 52069), (465, 52033), (466, 52030), (473, 52012), (475, 52003), (478, 51991), (493, 51943), (511, 51910), (519, 51886), (532, 51862), (544,

51838), (583, 51772), (624, 51673), (683, 51541), (684, 51538), (724, 51472), (743, 51421), (744, 51418), (761, 51361), (765, 51343), (791, 51226), (792, 51223), (798, 51211), (845, 51112), (855, 51091),

Gene: Den3_41 Start: 31123, Stop: 29735, Start Num: 370

Candidate Starts for Den3_41:

(120, 31774), (242, 31420), (274, 31345), (Start: 370 @31123 has 138 MA's), (419, 30979), (421, 30973), (422, 30970), (463, 30856), (474, 30829), (490, 30769), (499, 30742), (501, 30739), (538, 30643), (550, 30601), (594, 30430), (601, 30409), (612, 30382), (632, 30334), (670, 30274), (725, 30115), (743, 30061), (762, 29977), (764, 29971), (766, 29959), (789, 29863), (810, 29809), (811, 29806), (820, 29782),

Gene: Diabla_63 Start: 53692, Stop: 52283, Start Num: 227

Candidate Starts for Diabla_63:

(72, 54070), (89, 54019), (133, 53914), (145, 53884), (Start: 158 @53851 has 3 MA's), (164, 53842), (Start: 176 @53815 has 28 MA's), (Start: 227 @53692 has 28 MA's), (239, 53647), (251, 53605), (272, 53557), (273, 53554), (276, 53548), (277, 53545), (283, 53527), (288, 53506), (306, 53479), (406, 53356), (421, 53338), (462, 53251), (465, 53236), (494, 53143), (532, 53065), (544, 53041), (574, 53005), (575, 53002), (583, 52975), (599, 52933), (624, 52888), (631, 52870), (662, 52804), (684, 52753), (688, 52738), (694, 52717), (733, 52660), (744, 52633), (761, 52576), (762, 52570), (765, 52558), (777, 52507), (782, 52483), (791, 52444), (797, 52432), (798, 52429), (837, 52336), (845, 52321), (855, 52300),

Gene: Dina_47 Start: 36338, Stop: 37714, Start Num: 370

Candidate Starts for Dina_47:

(Start: 370 @36338 has 138 MA's), (400, 36407), (406, 36425), (426, 36518), (448, 36578), (451, 36584), (453, 36587), (486, 36707), (492, 36725), (543, 36842), (579, 36980), (590, 37019), (601, 37052), (603, 37058), (610, 37073), (626, 37112), (665, 37172), (675, 37196), (690, 37232), (715, 37301), (719, 37307), (748, 37388), (769, 37484), (772, 37496), (775, 37508), (787, 37565), (789, 37571), (796, 37583), (806, 37613), (825, 37664),

Gene: Djokovic_50 Start: 36614, Stop: 38668, Start Num: 70

Candidate Starts for Djokovic_50:

(Start: 70 @36614 has 16 MA's), (78, 36638), (108, 36701), (139, 36785), (155, 36827), (250, 37049), (273, 37085), (301, 37160), (326, 37199), (351, 37241), (363, 37259), (Start: 370 @37280 has 138 MA's), (378, 37292), (402, 37352), (407, 37367), (420, 37385), (446, 37463), (455, 37478), (456, 37481), (465, 37520), (473, 37541), (510, 37643), (532, 37700), (541, 37721), (542, 37724), (547, 37736), (556, 37784), (557, 37790), (563, 37838), (566, 37871), (573, 37895), (580, 37913), (587, 37943), (635, 38066), (649, 38099), (654, 38111), (662, 38126), (680, 38165), (700, 38210), (708, 38237), (741, 38321), (759, 38384), (768, 38426), (771, 38435), (773, 38444), (783, 38492), (785, 38501), (787, 38513), (794, 38528), (809, 38570),

Gene: DocB7_048 Start: 43676, Stop: 42174, Start Num: 194

Candidate Starts for DocB7_048:

(Start: 194 @43676 has 3 MA's), (232, 43580), (239, 43553), (248, 43520), (258, 43496), (272, 43466), (303, 43391), (389, 43310), (394, 43295), (441, 43184), (461, 43163), (473, 43124), (526, 42986), (532, 42974), (534, 42971), (544, 42950), (586, 42872), (624, 42812), (683, 42677), (684, 42674), (701, 42623), (707, 42602), (726, 42575), (748, 42509), (757, 42482), (760, 42473), (765, 42452), (773, 42416), (782, 42377), (802, 42311), (843, 42215),

Gene: Dodo_114 Start: 79498, Stop: 77648, Start Num: 65

Candidate Starts for Dodo_114:

(42, 79567), (44, 79561), (Start: 65 @79498 has 9 MA's), (83, 79453), (88, 79441), (150, 79315), (178, 79252), (Start: 227 @79177 has 28 MA's), (268, 79069), (275, 79051), (298, 78982), (315, 78955), (382, 78895), (427, 78730), (476, 78586), (507, 78499), (517, 78472), (532, 78436), (536, 78427), (575, 78370), (577, 78364), (590, 78319), (595, 78307), (605, 78286), (618, 78262), (635, 78226), (670, 78181), (702, 78097), (703, 78094), (704, 78088), (730, 78025), (762, 77923), (782, 77836), (792, 77794), (810, 77743),

Gene: DoobyDoo_59 Start: 39773, Stop: 41686, Start Num: 56

Candidate Starts for DoobyDoo_59:

(Start: 55 @39770 has 13 MA's), (Start: 56 @39773 has 54 MA's), (Start: 70 @39785 has 16 MA's), (86, 39833), (105, 39866), (132, 39935), (171, 40025), (184, 40052), (188, 40061), (226, 40133), (251, 40220), (273, 40253), (295, 40316), (350, 40406), (420, 40562), (427, 40586), (441, 40628), (460, 40676), (465, 40697), (473, 40718), (490, 40775), (511, 40829), (529, 40871), (549, 40931), (586, 41027), (587, 41030), (685, 41207), (708, 41258), (743, 41348), (753, 41384), (755, 41390), (765, 41426), (768, 41444), (779, 41483), (808, 41585), (813, 41600), (822, 41621),

Gene: Dothraki_41 Start: 31114, Stop: 29726, Start Num: 370

Candidate Starts for Dothraki_41:

(120, 31765), (242, 31411), (274, 31336), (Start: 370 @31114 has 138 MA's), (419, 30970), (421, 30964), (422, 30961), (463, 30847), (474, 30820), (490, 30760), (499, 30733), (501, 30730), (538, 30634), (550, 30592), (575, 30481), (594, 30421), (606, 30385), (612, 30373), (626, 30340), (632, 30325), (670, 30265), (702, 30169), (725, 30106), (743, 30052), (762, 29968), (764, 29962), (766, 29950), (789, 29854), (810, 29800), (811, 29797), (820, 29773),

Gene: DrLupo_67 Start: 46291, Stop: 48255, Start Num: 54

Candidate Starts for DrLupo_67:

(15, 46123), (26, 46198), (27, 46204), (Start: 54 @46291 has 2 MA's), (66, 46312), (Start: 70 @46318 has 16 MA's), (71, 46324), (84, 46357), (97, 46390), (122, 46438), (128, 46459), (138, 46486), (149, 46510), (177, 46573), (183, 46591), (191, 46609), (197, 46621), (216, 46654), (229, 46696), (236, 46717), (Start: 237 @46720 has 1 MA's), (240, 46738), (252, 46771), (256, 46777), (273, 46801), (275, 46804), (299, 46876), (410, 47095), (420, 47110), (446, 47188), (473, 47266), (495, 47341), (509, 47374), (569, 47536), (573, 47542), (616, 47668), (618, 47671), (653, 47707), (659, 47713), (702, 47797), (712, 47830), (752, 47941), (753, 47944), (756, 47953), (765, 47986), (769, 48007), (780, 48049), (800, 48112), (807, 48139), (846, 48223),

Gene: DrRobert_25 Start: 20576, Stop: 21970, Start Num: 212

Candidate Starts for DrRobert_25:

(Start: 212 @20576 has 74 MA's), (232, 20633), (279, 20738), (280, 20741), (320, 20825), (385, 20858), (420, 20909), (422, 20915), (458, 20996), (459, 20999), (462, 21005), (473, 21041), (477, 21059), (478, 21062), (489, 21095), (495, 21116), (577, 21248), (585, 21275), (601, 21314), (610, 21335), (612, 21341), (627, 21374), (633, 21389), (637, 21398), (659, 21443), (671, 21479), (690, 21521), (708, 21584), (714, 21602), (753, 21704), (754, 21707), (760, 21725), (761, 21728), (766, 21752), (767, 21761), (789, 21848), (823, 21938), (834, 21962),

Gene: DreamTeam_25 Start: 20615, Stop: 22009, Start Num: 212

Candidate Starts for DreamTeam_25:

(Start: 212 @20615 has 74 MA's), (232, 20672), (279, 20777), (280, 20780), (320, 20864), (385, 20897), (421, 20951), (422, 20954), (462, 21044), (473, 21080), (478, 21101), (489, 21134), (495, 21155), (577, 21287), (585, 21314), (601, 21353), (612, 21380), (627, 21413), (633, 21428), (637, 21437), (659, 21482), (671, 21518), (701, 21599), (708, 21623), (714, 21641), (721, 21653), (744, 21713), (749, 21737), (753, 21743), (754, 21746), (760, 21764), (761, 21767), (766, 21791), (767, 21800), (789, 21887), (807, 21938), (823, 21977),

Gene: Dryad_74 Start: 51068, Stop: 49182, Start Num: 61

Candidate Starts for Dryad_74:

(Start: 37 @51137 has 6 MA's), (42, 51128), (43, 51125), (Start: 61 @51068 has 8 MA's), (96, 50990), (Start: 100 @50981 has 1 MA's), (Start: 126 @50921 has 3 MA's), (134, 50900), (147, 50876), (175, 50813), (216, 50738), (226, 50714), (298, 50516), (306, 50507), (361, 50399), (422, 50243), (460, 50138), (475, 50087), (493, 50027), (531, 49940), (532, 49937), (552, 49883), (586, 49832), (589, 49823), (594, 49811), (610, 49778), (642, 49712), (671, 49685), (676, 49682), (712, 49583), (724, 49556), (754, 49466), (768, 49406), (771, 49397), (774, 49382), (786, 49322), (794, 49307), (808, 49268),

Gene: DumpTruck_58 Start: 39261, Stop: 41165, Start Num: 70

Candidate Starts for DumpTruck_58:

(21, 39126), (25, 39147), (31, 39168), (44, 39198), (Start: 55 @39243 has 13 MA's), (Start: 56 @39246 has 54 MA's), (Start: 70 @39261 has 16 MA's), (86, 39309), (105, 39342), (107, 39345), (149, 39450), (184, 39528), (188, 39537), (226, 39609), (229, 39624), (233, 39633), (271, 39726), (275, 39732), (295, 39792), (403, 40005), (420, 40038), (455, 40131), (458, 40146), (465, 40173), (473, 40194), (511, 40308), (529, 40350), (531, 40359), (547, 40398), (549, 40410), (569, 40455), (573, 40461), (586, 40506), (591, 40521), (654, 40614), (700, 40707), (753, 40860), (765, 40902), (768, 40920), (769, 40923), (808, 41061), (822, 41097), (851, 41151),

Gene: DunneganBoMo_90 Start: 76558, Stop: 78402, Start Num: 63

Candidate Starts for DunneganBoMo_90:

(Start: 63 @76558 has 11 MA's), (181, 76831), (239, 76939), (269, 77005), (292, 77074), (296, 77083), (385, 77158), (478, 77467), (492, 77512), (509, 77551), (517, 77572), (536, 77617), (575, 77674), (577, 77680), (586, 77713), (590, 77725), (595, 77737), (665, 77854), (667, 77860), (701, 77950), (710, 77983), (744, 78067), (769, 78160), (775, 78184), (829, 78352), (831, 78355),

Gene: Duocatuli_40 Start: 30803, Stop: 29415, Start Num: 370

Candidate Starts for Duocatuli_40:

(242, 31100), (274, 31025), (Start: 370 @30803 has 138 MA's), (419, 30659), (421, 30653), (422, 30650), (463, 30536), (474, 30509), (490, 30449), (499, 30422), (501, 30419), (538, 30323), (550, 30281), (594, 30110), (601, 30089), (606, 30074), (632, 30014), (670, 29954), (702, 29858), (725, 29795), (743, 29741), (762, 29657), (764, 29651), (766, 29639), (783, 29564), (789, 29543), (810, 29489), (811, 29486), (820, 29462),

Gene: Edmundo_94 Start: 55295, Stop: 56959, Start Num: 129

Candidate Starts for Edmundo_94:

(Start: 129 @55295 has 9 MA's), (154, 55358), (159, 55367), (201, 55454), (221, 55499), (257, 55619), (293, 55712), (306, 55736), (316, 55748), (386, 55802), (405, 55853), (424, 55889), (431, 55916), (439, 55937), (444, 55943), (466, 55985), (513, 56102), (548, 56180), (574, 56198), (589, 56249), (603, 56282), (624, 56315), (651, 56372), (662, 56399), (681, 56441), (711, 56522), (729, 56552), (733, 56570), (744, 56597), (750, 56624), (771, 56699), (778, 56726), (781, 56738), (802, 56807), (804, 56816), (805, 56819), (816, 56852), (837, 56888), (845, 56903), (852, 56918), (856, 56939),

Gene: Eggsie_57 Start: 51628, Stop: 50060, Start Num: 158

Candidate Starts for Eggsie_57:

(72, 51847), (114, 51745), (123, 51718), (133, 51691), (141, 51670), (145, 51661), (Start: 158 @51628 has 3 MA's), (164, 51619), (Start: 176 @51592 has 28 MA's), (Start: 227 @51469 has 28 MA's), (239, 51424), (251, 51382), (272, 51334), (273, 51331), (276, 51325), (277, 51322), (283, 51304), (288, 51283), (306, 51256), (406, 51133), (421, 51115), (462, 51028), (465, 51013), (494, 50920), (532, 50842), (544, 50818), (574, 50782), (575, 50779), (583, 50752), (599, 50710), (624, 50665), (631, 50647), (662, 50581), (684, 50530), (688, 50515), (694, 50494), (733, 50437), (744, 50410), (761, 50353), (762, 50347), (765, 50335), (777, 50284), (782, 50260), (791, 50221), (797, 50209), (798,

50206), (837, 50113), (845, 50098), (855, 50077),

Gene: Ekhein_59 Start: 51454, Stop: 49922, Start Num: 176

Candidate Starts for Ekhein_59:

(72, 51709), (89, 51658), (114, 51607), (133, 51553), (145, 51523), (Start: 158 @51490 has 3 MA's), (164, 51481), (Start: 176 @51454 has 28 MA's), (239, 51286), (251, 51244), (272, 51196), (277, 51184), (282, 51172), (283, 51166), (288, 51145), (306, 51118), (421, 50977), (462, 50890), (465, 50875), (470, 50863), (478, 50833), (494, 50782), (510, 50755), (532, 50704), (548, 50662), (574, 50644), (575, 50641), (583, 50614), (599, 50572), (624, 50527), (684, 50392), (688, 50377), (694, 50356), (733, 50299), (743, 50275), (744, 50272), (761, 50215), (762, 50209), (764, 50203), (765, 50197), (777, 50146), (782, 50122), (791, 50083), (797, 50071), (798, 50068), (837, 49975), (845, 49960), (855, 49939),

Gene: Eleri_40 Start: 30943, Stop: 29531, Start Num: 376

Candidate Starts for Eleri_40:

(Start: 376 @30943 has 23 MA's), (385, 30913), (Start: 387 @30907 has 1 MA's), (400, 30874), (463, 30682), (474, 30655), (490, 30595), (499, 30568), (501, 30565), (516, 30523), (538, 30469), (550, 30427), (594, 30256), (601, 30235), (606, 30220), (612, 30208), (615, 30196), (617, 30193), (626, 30175), (658, 30094), (670, 30058), (689, 30004), (701, 29962), (710, 29932), (722, 29908), (724, 29902), (739, 29860), (753, 29791), (761, 29767), (762, 29761), (764, 29755), (766, 29743), (789, 29647), (794, 29638), (802, 29620), (805, 29608), (822, 29563),

Gene: Ellewin_92 Start: 75969, Stop: 77813, Start Num: 63

Candidate Starts for Ellewin_92:

(Start: 63 @75969 has 11 MA's), (181, 76242), (239, 76350), (269, 76416), (292, 76485), (296, 76494), (385, 76569), (414, 76665), (478, 76878), (492, 76923), (509, 76962), (517, 76983), (536, 77028), (577, 77091), (586, 77124), (590, 77136), (595, 77148), (665, 77265), (667, 77271), (691, 77334), (704, 77373), (710, 77394), (744, 77478), (769, 77571), (775, 77595), (829, 77763), (831, 77766),

Gene: Emianna_72 Start: 56707, Stop: 54641, Start Num: 36

Candidate Starts for Emianna_72:

(2, 57205), (5, 57004), (8, 56911), (9, 56899), (11, 56881), (Start: 36 @56707 has 34 MA's), (Start: 87 @56569 has 2 MA's), (Start: 98 @56545 has 3 MA's), (188, 56341), (213, 56296), (251, 56188), (303, 56074), (306, 56071), (355, 55981), (357, 55978), (Start: 387 @55918 has 1 MA's), (441, 55780), (450, 55762), (458, 55738), (495, 55615), (532, 55510), (577, 55384), (594, 55330), (660, 55204), (662, 55195), (671, 55171), (700, 55099), (702, 55093), (710, 55063), (733, 55006), (753, 54946), (769, 54883), (787, 54802),

Gene: Emmetator_93 Start: 76561, Stop: 78405, Start Num: 63

Candidate Starts for Emmetator_93:

(Start: 63 @76561 has 11 MA's), (181, 76834), (239, 76942), (269, 77008), (292, 77077), (296, 77086), (385, 77161), (478, 77470), (492, 77515), (509, 77554), (517, 77575), (536, 77620), (575, 77677), (577, 77683), (586, 77716), (590, 77728), (595, 77740), (665, 77857), (667, 77863), (701, 77953), (710, 77986), (744, 78070), (769, 78163), (775, 78187), (829, 78355), (831, 78358),

Gene: Endor_41 Start: 31504, Stop: 30116, Start Num: 370

Candidate Starts for Endor_41:

(316, 31618), (332, 31597), (Start: 370 @31504 has 138 MA's), (419, 31360), (421, 31354), (422, 31351), (463, 31237), (474, 31210), (490, 31150), (499, 31123), (501, 31120), (538, 31024), (550, 30982), (594, 30811), (601, 30790), (632, 30715), (670, 30655), (702, 30559), (743, 30442), (747, 30424), (762, 30358), (764, 30352), (766, 30340), (789, 30244), (810, 30190), (811, 30187), (820, 30163), (836, 30133),

Gene: Ennea_79 Start: 57918, Stop: 55861, Start Num: 36

Candidate Starts for Ennea_79:

(6, 58206), (10, 58098), (Start: 36 @57918 has 34 MA's), (197, 57543), (252, 57402), (282, 57351), (303, 57291), (306, 57288), (346, 57216), (355, 57198), (Start: 387 @57135 has 1 MA's), (389, 57129), (400, 57102), (428, 57036), (441, 56997), (450, 56979), (458, 56955), (495, 56832), (508, 56799), (532, 56736), (577, 56613), (602, 56544), (610, 56526), (662, 56421), (666, 56412), (689, 56352), (700, 56319), (702, 56313), (710, 56283), (733, 56226), (753, 56166), (762, 56136), (769, 56103), (819, 55938),

Gene: Erasmago_105 Start: 76053, Stop: 74113, Start Num: 65

Candidate Starts for Erasmago_105:

(Start: 65 @76053 has 9 MA's), (124, 75927), (178, 75807), (Start: 227 @75732 has 28 MA's), (251, 75651), (257, 75639), (273, 75609), (427, 75189), (476, 75045), (498, 74976), (508, 74955), (532, 74895), (536, 74886), (542, 74871), (577, 74823), (586, 74790), (590, 74778), (605, 74745), (635, 74685), (652, 74670), (670, 74640), (703, 74553), (704, 74547), (730, 74484), (738, 74457), (764, 74376), (768, 74352), (782, 74295), (792, 74253), (805, 74217),

Gene: Erk16_52 Start: 39875, Stop: 41818, Start Num: 56

Candidate Starts for Erk16_52:

(38, 39812), (Start: 56 @39875 has 54 MA's), (74, 39902), (Start: 106 @39974 has 1 MA's), (127, 40028), (151, 40088), (163, 40115), (187, 40166), (208, 40208), (226, 40244), (251, 40331), (291, 40424), (299, 40439), (313, 40460), (Start: 370 @40562 has 138 MA's), (385, 40595), (394, 40619), (422, 40679), (455, 40766), (476, 40841), (511, 40931), (532, 40982), (534, 40985), (569, 41075), (577, 41093), (586, 41126), (616, 41192), (626, 41210), (662, 41273), (700, 41357), (743, 41474), (753, 41522), (769, 41585), (787, 41669),

Gene: Erla_40 Start: 30799, Stop: 29411, Start Num: 370

Candidate Starts for Erla_40:

(274, 31021), (Start: 370 @30799 has 138 MA's), (419, 30655), (421, 30649), (422, 30646), (463, 30532), (474, 30505), (490, 30445), (499, 30418), (501, 30415), (538, 30319), (550, 30277), (594, 30106), (601, 30085), (606, 30070), (612, 30058), (632, 30010), (670, 29950), (702, 29854), (725, 29791), (743, 29737), (762, 29653), (764, 29647), (766, 29635), (783, 29560), (789, 29539), (810, 29485), (811, 29482), (820, 29458),

Gene: Erudite_39 Start: 25497, Stop: 27404, Start Num: 68

Candidate Starts for Erudite_39:

(17, 25323), (Start: 68 @25497 has 34 MA's), (96, 25560), (109, 25581), (128, 25635), (191, 25770), (207, 25797), (216, 25812), (231, 25857), (298, 26031), (306, 26040), (355, 26130), (Start: 370 @26172 has 138 MA's), (378, 26187), (443, 26373), (490, 26508), (493, 26520), (510, 26553), (577, 26682), (610, 26769), (626, 26799), (743, 27072), (754, 27111), (768, 27171), (788, 27261), (802, 27291), (815, 27333), (840, 27384),

Gene: Erutan_60 Start: 40423, Stop: 42336, Start Num: 56

Candidate Starts for Erutan_60:

(19, 40297), (22, 40306), (23, 40318), (34, 40351), (Start: 55 @40420 has 13 MA's), (Start: 56 @40423 has 54 MA's), (Start: 70 @40435 has 16 MA's), (86, 40483), (105, 40516), (171, 40675), (184, 40702), (188, 40711), (226, 40783), (251, 40870), (273, 40903), (295, 40966), (350, 41056), (361, 41083), (420, 41212), (427, 41236), (441, 41278), (460, 41326), (465, 41347), (473, 41368), (490, 41425), (511, 41479), (529, 41521), (549, 41581), (586, 41677), (587, 41680), (708, 41908), (743, 41998), (753, 42034), (755, 42040), (768, 42094), (779, 42133), (808, 42235), (813, 42250), (822, 42271),

Gene: Espinosa_40 Start: 30814, Stop: 29426, Start Num: 370

Candidate Starts for Espinosa_40:

(274, 31036), (Start: 370 @30814 has 138 MA's), (419, 30670), (421, 30664), (422, 30661), (463, 30547), (474, 30520), (490, 30460), (499, 30433), (501, 30430), (538, 30334), (550, 30292), (594, 30121), (601, 30100), (606, 30085), (632, 30025), (670, 29965), (702, 29869), (725, 29806), (743, 29752), (762, 29668), (764, 29662), (766, 29650), (789, 29554), (810, 29500), (811, 29497), (820, 29473),

Gene: EstebanJulior_26 Start: 21743, Stop: 23140, Start Num: 212

Candidate Starts for EstebanJulior_26:

(Start: 212 @21743 has 74 MA's), (232, 21803), (279, 21908), (280, 21911), (320, 21995), (385, 22028), (420, 22079), (422, 22085), (458, 22166), (462, 22175), (473, 22211), (477, 22229), (478, 22232), (489, 22265), (495, 22286), (577, 22418), (596, 22475), (601, 22484), (610, 22505), (612, 22511), (627, 22544), (633, 22559), (661, 22619), (671, 22649), (701, 22730), (714, 22772), (731, 22805), (749, 22868), (754, 22877), (758, 22889), (760, 22895), (764, 22910), (766, 22922), (767, 22931), (789, 23018), (809, 23075), (823, 23108),

Gene: Etna_40 Start: 31284, Stop: 29893, Start Num: 370

Candidate Starts for Etna_40:

(316, 31398), (359, 31314), (Start: 370 @31284 has 138 MA's), (419, 31137), (421, 31131), (422, 31128), (463, 31014), (474, 30987), (490, 30927), (499, 30900), (501, 30897), (538, 30801), (550, 30759), (594, 30588), (601, 30567), (670, 30432), (702, 30336), (743, 30219), (747, 30201), (762, 30135), (764, 30129), (766, 30117), (789, 30021), (810, 29967), (811, 29964), (820, 29940), (836, 29910),

Gene: Etta_40 Start: 30803, Stop: 29415, Start Num: 370

Candidate Starts for Etta_40:

(274, 31025), (Start: 370 @30803 has 138 MA's), (419, 30659), (421, 30653), (422, 30650), (463, 30536), (474, 30509), (490, 30449), (499, 30422), (501, 30419), (538, 30323), (550, 30281), (594, 30110), (601, 30089), (606, 30074), (612, 30062), (632, 30014), (670, 29954), (702, 29858), (725, 29795), (743, 29741), (762, 29657), (764, 29651), (766, 29639), (783, 29564), (789, 29543), (810, 29489), (811, 29486), (820, 29462),

Gene: Eunoia_26 Start: 21745, Stop: 23139, Start Num: 212

Candidate Starts for Eunoia_26:

(Start: 212 @21745 has 74 MA's), (232, 21802), (269, 21889), (279, 21907), (280, 21910), (320, 21994), (385, 22027), (420, 22078), (422, 22084), (441, 22144), (462, 22174), (473, 22210), (477, 22228), (495, 22285), (508, 22303), (510, 22309), (523, 22336), (577, 22417), (585, 22444), (593, 22468), (601, 22483), (612, 22510), (627, 22543), (633, 22558), (690, 22690), (700, 22726), (708, 22753), (712, 22765), (721, 22783), (753, 22873), (755, 22879), (760, 22894), (761, 22897), (767, 22930), (782, 22990), (789, 23017), (809, 23074), (823, 23107), (834, 23131),

Gene: Exiguo_58 Start: 51466, Stop: 49934, Start Num: 176

Candidate Starts for Exiguo_58:

(72, 51721), (89, 51670), (114, 51619), (133, 51565), (145, 51535), (Start: 158 @51502 has 3 MA's), (164, 51493), (Start: 176 @51466 has 28 MA's), (239, 51298), (251, 51256), (272, 51208), (277, 51196), (282, 51184), (283, 51178), (288, 51157), (306, 51130), (421, 50989), (462, 50902), (465, 50887), (470, 50875), (478, 50845), (494, 50794), (510, 50767), (532, 50716), (548, 50674), (574, 50656), (575, 50653), (583, 50626), (599, 50584), (624, 50539), (684, 50404), (688, 50389), (694, 50368), (733, 50311), (743, 50287), (744, 50284), (761, 50227), (762, 50221), (764, 50215), (765, 50209), (777, 50158), (782, 50134), (791, 50095), (797, 50083), (798, 50080), (837, 49987), (845, 49972), (855, 49951),

Gene: Exploradora_40 Start: 30803, Stop: 29415, Start Num: 370

Candidate Starts for Exploradora_40:

(274, 31025), (Start: 370 @30803 has 138 MA's), (419, 30659), (421, 30653), (422, 30650), (463, 30536), (474, 30509), (490, 30449), (499, 30422), (501, 30419), (538, 30323), (550, 30281), (594, 30110), (601, 30089), (606, 30074), (632, 30014), (670, 29954), (702, 29858), (725, 29795), (743, 29741), (762, 29657), (764, 29651), (766, 29639), (789, 29543), (810, 29489), (811, 29486), (820, 29462),

Gene: Ezurina_37 Start: 27463, Stop: 25631, Start Num: 65

Candidate Starts for Ezurina_37:

(Start: 65 @27463 has 9 MA's), (88, 27406), (187, 27205), (239, 27070), (306, 26908), (385, 26851), (390, 26836), (427, 26686), (429, 26680), (433, 26665), (452, 26620), (465, 26572), (473, 26551), (477, 26533), (493, 26482), (536, 26377), (577, 26314), (609, 26242), (655, 26161), (678, 26128), (688, 26095), (695, 26077), (701, 26059), (702, 26056), (713, 26020), (753, 25912), (756, 25903), (771, 25843), (782, 25795), (795, 25747),

Gene: FarmerDoug_40 Start: 31139, Stop: 29748, Start Num: 370

Candidate Starts for FarmerDoug_40:

(241, 31427), (247, 31406), (Start: 370 @31139 has 138 MA's), (419, 30992), (421, 30986), (422, 30983), (441, 30923), (463, 30869), (474, 30842), (490, 30782), (499, 30755), (501, 30752), (538, 30656), (550, 30614), (594, 30443), (601, 30422), (612, 30395), (632, 30347), (664, 30305), (670, 30287), (702, 30191), (743, 30074), (747, 30056), (755, 30014), (762, 29990), (764, 29984), (766, 29972), (789, 29876), (810, 29822), (811, 29819), (820, 29795), (836, 29765),

Gene: FelixAlejandro_64 Start: 54160, Stop: 52628, Start Num: 176

Candidate Starts for FelixAlejandro_64:

(72, 54415), (89, 54364), (133, 54259), (145, 54229), (Start: 158 @54196 has 3 MA's), (164, 54187), (Start: 176 @54160 has 28 MA's), (229, 54028), (239, 53992), (251, 53950), (259, 53932), (272, 53902), (277, 53890), (282, 53878), (283, 53872), (288, 53851), (421, 53683), (462, 53596), (465, 53581), (470, 53569), (478, 53539), (494, 53488), (532, 53410), (544, 53386), (548, 53368), (574, 53350), (575, 53347), (578, 53338), (583, 53320), (624, 53233), (684, 53098), (688, 53083), (694, 53062), (743, 52981), (744, 52978), (761, 52921), (762, 52915), (765, 52903), (777, 52852), (782, 52828), (791, 52789), (797, 52777), (798, 52774), (837, 52681), (845, 52666), (855, 52645),

Gene: Figueroism_41 Start: 31108, Stop: 29720, Start Num: 370

Candidate Starts for Figueroism_41:

(274, 31330), (Start: 370 @31108 has 138 MA's), (419, 30964), (421, 30958), (422, 30955), (463, 30841), (474, 30814), (490, 30754), (499, 30727), (501, 30724), (538, 30628), (550, 30586), (594, 30415), (601, 30394), (606, 30379), (612, 30367), (632, 30319), (670, 30259), (702, 30163), (725, 30100), (743, 30046), (762, 29962), (764, 29956), (766, 29944), (789, 29848), (810, 29794), (811, 29791), (820, 29767),

Gene: Finny_41 Start: 30901, Stop: 29525, Start Num: 387

Candidate Starts for Finny_41:

(Start: 372 @30940 has 8 MA's), (Start: 376 @30937 has 23 MA's), (385, 30907), (Start: 387 @30901 has 1 MA's), (400, 30868), (463, 30676), (474, 30649), (490, 30589), (499, 30562), (501, 30559), (516, 30517), (538, 30463), (550, 30421), (576, 30307), (594, 30250), (601, 30229), (612, 30202), (615, 30190), (617, 30187), (626, 30169), (658, 30088), (670, 30052), (689, 29998), (701, 29956), (710, 29926), (722, 29902), (724, 29896), (739, 29854), (753, 29785), (761, 29761), (762, 29755), (764, 29749), (766, 29737), (802, 29614), (805, 29602), (822, 29557),

Gene: FireCastle_33 Start: 23203, Stop: 24633, Start Num: 212

Candidate Starts for FireCastle_33:

(175, 23134), (Start: 212 @23203 has 74 MA's), (214, 23206), (397, 23524), (421, 23563), (427, 23584), (465, 23671), (473, 23692), (612, 24007), (622, 24028), (633, 24055), (646, 24082), (648,

24085), (659, 24112), (661, 24118), (677, 24154), (693, 24202), (702, 24232), (733, 24316), (744, 24337), (761, 24391), (765, 24409), (767, 24424), (771, 24436), (781, 24475), (789, 24511), (791, 24517), (797, 24529), (818, 24592), (835, 24628),

Gene: Flakey_58 Start: 52330, Stop: 50798, Start Num: 176

Candidate Starts for Flakey_58:

(72, 52585), (89, 52534), (114, 52483), (133, 52429), (145, 52399), (Start: 158 @52366 has 3 MA's), (164, 52357), (Start: 176 @52330 has 28 MA's), (239, 52162), (251, 52120), (272, 52072), (277, 52060), (282, 52048), (283, 52042), (288, 52021), (306, 51994), (421, 51853), (462, 51766), (465, 51751), (470, 51739), (478, 51709), (494, 51658), (510, 51631), (532, 51580), (548, 51538), (574, 51520), (575, 51517), (583, 51490), (599, 51448), (624, 51403), (684, 51268), (688, 51253), (694, 51232), (733, 51175), (743, 51151), (744, 51148), (761, 51091), (762, 51085), (764, 51079), (765, 51073), (777, 51022), (782, 50998), (791, 50959), (797, 50947), (798, 50944), (837, 50851), (845, 50836), (855, 50815),

Gene: Flapper_75 Start: 57019, Stop: 54962, Start Num: 36

Candidate Starts for Flapper_75:

(6, 57304), (11, 57187), (13, 57169), (Start: 36 @57019 has 34 MA's), (128, 56794), (251, 56506), (282, 56452), (291, 56416), (303, 56392), (306, 56389), (350, 56311), (355, 56299), (362, 56281), (Start: 387 @56236 has 1 MA's), (389, 56230), (404, 56191), (428, 56137), (441, 56098), (450, 56080), (495, 55933), (508, 55900), (518, 55870), (521, 55864), (532, 55837), (577, 55714), (602, 55645), (610, 55627), (662, 55522), (666, 55513), (676, 55495), (689, 55453), (702, 55414), (710, 55384), (721, 55366), (733, 55327), (753, 55267), (762, 55237), (769, 55204), (780, 55162), (835, 55006),

Gene: Float294_74 Start: 57824, Stop: 55767, Start Num: 36

Candidate Starts for Float294_74:

(10, 58004), (Start: 36 @57824 has 34 MA's), (197, 57449), (240, 57341), (252, 57308), (282, 57257), (303, 57197), (306, 57194), (346, 57122), (355, 57104), (Start: 387 @57041 has 1 MA's), (389, 57035), (400, 57008), (428, 56942), (441, 56903), (450, 56885), (458, 56861), (495, 56738), (508, 56705), (532, 56642), (577, 56519), (602, 56450), (610, 56432), (662, 56327), (689, 56258), (702, 56219), (709, 56195), (710, 56189), (733, 56132), (753, 56072), (762, 56042), (769, 56009), (819, 55844),

Gene: FloraSnap32_101 Start: 79635, Stop: 81473, Start Num: 63

Candidate Starts for FloraSnap32_101:

(Start: 63 @79635 has 11 MA's), (135, 79794), (181, 79890), (Start: 227 @79950 has 28 MA's), (236, 79980), (283, 80100), (301, 80151), (384, 80211), (509, 80607), (517, 80628), (536, 80673), (575, 80730), (577, 80736), (586, 80769), (590, 80781), (595, 80793), (602, 80808), (616, 80838), (635, 80877), (676, 80934), (678, 80940), (688, 80973), (710, 81042), (744, 81126), (765, 81198), (775, 81243), (832, 81417), (854, 81459),

Gene: Fluke_29 Start: 22148, Stop: 23548, Start Num: 212

Candidate Starts for Fluke_29:

(Start: 212 @22148 has 74 MA's), (232, 22211), (279, 22316), (280, 22319), (320, 22403), (385, 22436), (420, 22487), (422, 22493), (458, 22574), (459, 22577), (462, 22583), (473, 22619), (477, 22637), (478, 22640), (489, 22673), (495, 22694), (508, 22712), (523, 22745), (577, 22826), (585, 22853), (596, 22883), (601, 22892), (612, 22919), (627, 22952), (633, 22967), (659, 23021), (666, 23042), (670, 23054), (678, 23066), (755, 23288), (758, 23297), (760, 23303), (767, 23339), (782, 23399), (789, 23426), (823, 23516),

Gene: Forza_170 Start: 96758, Stop: 94848, Start Num: 62

Candidate Starts for Forza_170:

(Start: 62 @96758 has 8 MA's), (155, 96554), (178, 96506), (207, 96461), (229, 96380), (234, 96368), (273, 96263), (283, 96236), (382, 96131), (390, 96107), (434, 95942), (532, 95675), (536, 95666),

(547, 95639), (586, 95570), (688, 95321), (708, 95255), (718, 95231), (764, 95096), (778, 95036), (797, 94964),

Gene: FountainFog_39 Start: 25221, Stop: 27128, Start Num: 68

Candidate Starts for FountainFog_39:

(Start: 68 @25221 has 34 MA's), (96, 25284), (109, 25305), (128, 25359), (207, 25521), (216, 25536), (231, 25581), (298, 25755), (306, 25764), (355, 25854), (357, 25857), (Start: 370 @25896 has 138 MA's), (378, 25911), (443, 26097), (479, 26205), (490, 26232), (493, 26244), (577, 26406), (626, 26523), (753, 26832), (754, 26835), (768, 26895), (788, 26985), (802, 27015), (815, 27057), (840, 27108),

Gene: Fowlmouth_74 Start: 44820, Stop: 46667, Start Num: 98

Candidate Starts for Fowlmouth_74:

(Start: 98 @44820 has 3 MA's), (112, 44838), (125, 44874), (146, 44925), (197, 45033), (216, 45066), (236, 45126), (248, 45168), (271, 45207), (310, 45303), (318, 45315), (335, 45342), (341, 45357), (343, 45366), (363, 45405), (367, 45420), (403, 45507), (407, 45519), (446, 45618), (450, 45624), (458, 45648), (476, 45708), (505, 45786), (515, 45813), (529, 45843), (532, 45855), (542, 45879), (575, 45951), (577, 45957), (586, 45990), (591, 46005), (603, 46029), (604, 46032), (616, 46056), (753, 46380), (756, 46389), (764, 46416), (768, 46440), (780, 46485), (787, 46527), (806, 46575), (812, 46593), (841, 46650),

Gene: Foxboro_72 Start: 56919, Stop: 54853, Start Num: 36

Candidate Starts for Foxboro_72:

(8, 57123), (9, 57111), (11, 57093), (Start: 36 @56919 has 34 MA's), (Start: 87 @56781 has 2 MA's), (Start: 98 @56757 has 3 MA's), (188, 56553), (213, 56508), (251, 56400), (303, 56286), (306, 56283), (355, 56193), (357, 56190), (Start: 387 @56130 has 1 MA's), (441, 55992), (450, 55974), (458, 55950), (495, 55827), (532, 55722), (577, 55596), (594, 55542), (660, 55416), (662, 55407), (671, 55383), (700, 55311), (702, 55305), (710, 55275), (733, 55218), (753, 55158), (769, 55095), (787, 55014),

Gene: FreddieHg_40 Start: 25185, Stop: 27092, Start Num: 68

Candidate Starts for FreddieHg_40:

(17, 25011), (Start: 68 @25185 has 34 MA's), (96, 25248), (109, 25269), (128, 25323), (191, 25458), (216, 25500), (231, 25545), (298, 25719), (306, 25728), (355, 25818), (Start: 370 @25860 has 138 MA's), (378, 25875), (443, 26061), (490, 26196), (493, 26208), (510, 26241), (577, 26370), (626, 26487), (743, 26760), (754, 26799), (768, 26859), (788, 26949), (802, 26979), (815, 27021), (840, 27072),

Gene: Frizzle_34 Start: 32091, Stop: 30688, Start Num: 219

Candidate Starts for Frizzle_34:

(118, 32331), (119, 32328), (160, 32217), (Start: 219 @32091 has 3 MA's), (239, 32016), (248, 31992), (Start: 249 @31989 has 1 MA's), (272, 31959), (273, 31956), (327, 31845), (421, 31770), (422, 31767), (427, 31749), (435, 31716), (437, 31713), (458, 31686), (465, 31662), (474, 31635), (524, 31509), (525, 31506), (591, 31383), (592, 31380), (605, 31350), (606, 31347), (645, 31263), (664, 31218), (714, 31071), (730, 31041), (731, 31038), (791, 30819), (802, 30777),

Gene: FrostedClock_104 Start: 80935, Stop: 82773, Start Num: 63

Candidate Starts for FrostedClock_104:

(Start: 63 @80935 has 11 MA's), (96, 81016), (135, 81094), (181, 81190), (Start: 227 @81250 has 28 MA's), (236, 81280), (283, 81400), (301, 81451), (384, 81511), (486, 81850), (509, 81907), (517, 81928), (536, 81973), (575, 82030), (577, 82036), (586, 82069), (590, 82081), (595, 82093), (616, 82138), (635, 82177), (676, 82234), (678, 82240), (688, 82273), (710, 82342), (744, 82426), (775, 82543), (832, 82717), (854, 82759),

Gene: Fudan_126 Start: 67386, Stop: 68852, Start Num: 243

Candidate Starts for Fudan_126:

(Start: 204 @67281 has 4 MA's), (238, 67362), (243, 67386), (277, 67452), (313, 67533), (350, 67599), (390, 67665), (393, 67674), (425, 67752), (442, 67803), (476, 67905), (482, 67926), (483, 67929), (500, 67980), (503, 67989), (509, 68004), (513, 68016), (533, 68064), (539, 68079), (685, 68349), (693, 68361), (700, 68385), (733, 68472), (764, 68565), (766, 68577), (768, 68589), (799, 68697), (802, 68709), (822, 68766), (826, 68778), (830, 68784), (855, 68832),

Gene: Fulcrum_60 Start: 40439, Stop: 42352, Start Num: 56

Candidate Starts for Fulcrum_60:

(19, 40313), (22, 40322), (23, 40334), (34, 40367), (Start: 55 @40436 has 13 MA's), (Start: 56 @40439 has 54 MA's), (Start: 70 @40451 has 16 MA's), (86, 40499), (105, 40532), (132, 40601), (171, 40691), (184, 40718), (188, 40727), (226, 40799), (273, 40919), (295, 40982), (350, 41072), (361, 41099), (420, 41228), (427, 41252), (441, 41294), (455, 41321), (460, 41342), (465, 41363), (473, 41384), (490, 41441), (495, 41459), (511, 41495), (529, 41537), (549, 41597), (586, 41693), (587, 41696), (708, 41924), (743, 42014), (753, 42050), (755, 42056), (768, 42110), (779, 42149), (808, 42251), (813, 42266), (822, 42287),

Gene: Fulton_40 Start: 29072, Stop: 27645, Start Num: 373

Candidate Starts for Fulton_40:

(Start: 373 @29072 has 21 MA's), (383, 29042), (385, 29036), (421, 28922), (422, 28919), (499, 28682), (501, 28679), (576, 28424), (591, 28373), (594, 28367), (612, 28319), (626, 28286), (632, 28271), (661, 28199), (670, 28172), (675, 28163), (689, 28118), (691, 28112), (698, 28085), (725, 28013), (747, 27941), (753, 27905), (756, 27896), (761, 27881), (762, 27875), (766, 27857), (776, 27815), (794, 27752), (816, 27689), (820, 27680),

Gene: Fury_82 Start: 56141, Stop: 54093, Start Num: 36

Candidate Starts for Fury_82:

(Start: 36 @56141 has 34 MA's), (94, 55988), (107, 55973), (138, 55892), (197, 55769), (213, 55739), (251, 55631), (273, 55598), (289, 55547), (306, 55514), (355, 55424), (367, 55391), (Start: 387 @55361 has 1 MA's), (421, 55286), (450, 55205), (465, 55154), (495, 55058), (508, 55025), (521, 54989), (532, 54962), (575, 54845), (577, 54839), (602, 54770), (610, 54752), (616, 54740), (689, 54578), (702, 54545), (710, 54515), (718, 54500), (733, 54458), (769, 54335), (787, 54254), (800, 54230), (819, 54170),

Gene: GMA2_64 Start: 67776, Stop: 65812, Start Num: 63

Candidate Starts for GMA2_64:

(Start: 63 @67776 has 11 MA's), (124, 67644), (229, 67386), (273, 67269), (276, 67263), (283, 67242), (298, 67197), (382, 67137), (390, 67113), (404, 67077), (416, 67011), (427, 66972), (447, 66918), (465, 66864), (531, 66684), (536, 66672), (586, 66576), (592, 66558), (613, 66504), (672, 66342), (718, 66198), (755, 66093), (769, 66036), (778, 66003), (822, 65859),

Gene: GMA3_58 Start: 50868, Stop: 49351, Start Num: 194

Candidate Starts for GMA3_58:

(91, 51117), (94, 51111), (125, 51039), (Start: 194 @50868 has 3 MA's), (232, 50772), (239, 50745), (243, 50727), (248, 50718), (261, 50691), (272, 50673), (283, 50643), (293, 50613), (303, 50592), (317, 50571), (394, 50493), (406, 50463), (420, 50448), (426, 50427), (466, 50334), (477, 50298), (494, 50244), (532, 50166), (575, 50103), (583, 50076), (587, 50061), (590, 50052), (628, 49989), (646, 49950), (671, 49890), (682, 49869), (683, 49866), (684, 49863), (697, 49815), (753, 49653), (765, 49611), (776, 49563), (791, 49497), (797, 49485),

Gene: GMA7_51 Start: 46927, Stop: 45296, Start Num: 116

Candidate Starts for GMA7_51:

(Start: 116 @46927 has 3 MA's), (121, 46915), (141, 46864), (143, 46858), (170, 46801), (239, 46660), (251, 46618), (256, 46606), (272, 46570), (273, 46567), (283, 46540), (296, 46504), (306, 46492), (317, 46477), (406, 46369), (462, 46264), (465, 46249), (511, 46126), (532, 46078), (544, 46054), (548, 46036), (583, 45988), (602, 45937), (624, 45901), (631, 45883), (684, 45766), (713, 45715), (733, 45673), (753, 45613), (765, 45571), (777, 45520), (782, 45496), (845, 45334), (855, 45313),

Gene: GOATification_60 Start: 40439, Stop: 42352, Start Num: 56

Candidate Starts for GOATification_60:

(19, 40313), (22, 40322), (23, 40334), (34, 40367), (Start: 55 @40436 has 13 MA's), (Start: 56 @40439 has 54 MA's), (Start: 70 @40451 has 16 MA's), (86, 40499), (105, 40532), (132, 40601), (171, 40691), (184, 40718), (188, 40727), (226, 40799), (273, 40919), (295, 40982), (350, 41072), (361, 41099), (420, 41228), (427, 41252), (441, 41294), (455, 41321), (460, 41342), (465, 41363), (473, 41384), (490, 41441), (495, 41459), (511, 41495), (529, 41537), (549, 41597), (586, 41693), (587, 41696), (708, 41924), (743, 42014), (753, 42050), (755, 42056), (768, 42110), (779, 42149), (808, 42251), (813, 42266), (822, 42287),

Gene: GRU1_61 Start: 48864, Stop: 46807, Start Num: 36

Candidate Starts for GRU1_61:

(11, 49032), (Start: 36 @48864 has 34 MA's), (236, 48402), (251, 48351), (303, 48237), (306, 48234), (350, 48156), (355, 48144), (362, 48126), (Start: 387 @48081 has 1 MA's), (389, 48075), (404, 48036), (428, 47982), (441, 47943), (450, 47925), (495, 47778), (508, 47745), (521, 47709), (532, 47682), (577, 47559), (602, 47490), (610, 47472), (623, 47451), (662, 47367), (689, 47298), (702, 47259), (710, 47229), (733, 47172), (753, 47112), (762, 47082), (769, 47049), (780, 47007), (835, 46851),

Gene: GTE5_60 Start: 49067, Stop: 47640, Start Num: 306

Candidate Starts for GTE5_60:

(6, 49982), (11, 49865), (13, 49847), (Start: 36 @49697 has 34 MA's), (128, 49472), (251, 49184), (282, 49130), (291, 49094), (306, 49067), (350, 48989), (355, 48977), (362, 48959), (Start: 387 @48914 has 1 MA's), (389, 48908), (404, 48869), (428, 48815), (441, 48776), (450, 48758), (495, 48611), (508, 48578), (518, 48548), (521, 48542), (532, 48515), (577, 48392), (602, 48323), (610, 48305), (662, 48200), (666, 48191), (676, 48173), (689, 48131), (702, 48092), (710, 48062), (733, 48005), (753, 47945), (762, 47915), (769, 47882), (780, 47840), (835, 47684),

Gene: GTE7_50 Start: 46958, Stop: 45327, Start Num: 116

Candidate Starts for GTE7_50:

(Start: 116 @46958 has 3 MA's), (121, 46946), (141, 46895), (143, 46889), (170, 46832), (239, 46691), (251, 46649), (256, 46637), (272, 46601), (273, 46598), (283, 46571), (306, 46523), (317, 46508), (406, 46400), (462, 46295), (465, 46280), (511, 46157), (532, 46109), (544, 46085), (548, 46067), (583, 46019), (602, 45968), (624, 45932), (631, 45914), (684, 45797), (713, 45746), (733, 45704), (753, 45644), (765, 45602), (777, 45551), (782, 45527), (845, 45365), (855, 45344),

Gene: GTE8_60 Start: 49561, Stop: 47633, Start Num: 87

Candidate Starts for GTE8_60:

(8, 49903), (11, 49873), (16, 49798), (Start: 36 @49699 has 34 MA's), (Start: 87 @49561 has 2 MA's), (Start: 98 @49537 has 3 MA's), (213, 49288), (251, 49180), (303, 49066), (306, 49063), (355, 48973), (357, 48970), (Start: 387 @48910 has 1 MA's), (450, 48754), (455, 48745), (458, 48730), (495, 48607), (532, 48502), (542, 48478), (577, 48376), (594, 48322), (604, 48301), (662, 48187), (700, 48091), (702, 48085), (710, 48055), (729, 48016), (733, 47998), (753, 47938), (769, 47875), (787, 47794), (819, 47710),

Gene: GaeCeo_42 Start: 31326, Stop: 29935, Start Num: 370

Candidate Starts for GaeCeo_42:

(Start: 370 @31326 has 138 MA's), (419, 31182), (421, 31176), (441, 31113), (474, 31032), (490, 30972), (499, 30945), (501, 30942), (506, 30936), (538, 30846), (550, 30804), (594, 30633), (601, 30612), (606, 30597), (612, 30585), (635, 30534), (670, 30477), (676, 30465), (725, 30315), (731, 30303), (747, 30243), (753, 30207), (755, 30201), (761, 30183), (762, 30177), (764, 30171), (776, 30117), (783, 30084), (789, 30063), (805, 30024),

Gene: Gagieri_70 Start: 52937, Stop: 50901, Start Num: 37

Candidate Starts for Gagieri_70:

(3, 53405), (4, 53399), (Start: 37 @52937 has 6 MA's), (79, 52829), (213, 52544), (236, 52487), (251, 52436), (259, 52421), (298, 52331), (306, 52319), (322, 52292), (355, 52226), (390, 52154), (406, 52112), (422, 52085), (446, 52013), (465, 51956), (532, 51776), (542, 51752), (565, 51689), (577, 51653), (610, 51566), (676, 51434), (688, 51395), (689, 51392), (733, 51260), (753, 51200), (769, 51137), (780, 51095), (800, 51032),

Gene: GalacticEye_57 Start: 52570, Stop: 51158, Start Num: 227

Candidate Starts for GalacticEye_57:

(72, 52918), (123, 52789), (156, 52702), (Start: 158 @52699 has 3 MA's), (Start: 227 @52570 has 28 MA's), (239, 52525), (272, 52435), (273, 52432), (276, 52426), (283, 52405), (317, 52342), (406, 52234), (421, 52216), (462, 52129), (465, 52114), (478, 52072), (511, 51991), (532, 51943), (548, 51901), (574, 51883), (575, 51880), (583, 51853), (602, 51802), (624, 51766), (646, 51715), (684, 51631), (690, 51610), (761, 51454), (762, 51448), (765, 51436), (797, 51310), (845, 51196),

Gene: GardenB_40 Start: 31225, Stop: 29840, Start Num: 370

Candidate Starts for GardenB_40:

(359, 31255), (Start: 370 @31225 has 138 MA's), (415, 31102), (419, 31081), (421, 31075), (422, 31072), (463, 30958), (490, 30871), (499, 30844), (501, 30841), (538, 30745), (550, 30703), (594, 30532), (606, 30496), (670, 30376), (680, 30352), (725, 30217), (743, 30163), (755, 30103), (762, 30079), (764, 30073), (766, 30061), (789, 29965), (810, 29911),

Gene: Garey24_41 Start: 30782, Stop: 29394, Start Num: 370

Candidate Starts for Garey24_41:

(274, 31004), (Start: 370 @30782 has 138 MA's), (419, 30638), (421, 30632), (422, 30629), (463, 30515), (474, 30488), (490, 30428), (499, 30401), (501, 30398), (538, 30302), (550, 30260), (594, 30089), (601, 30068), (606, 30053), (612, 30041), (632, 29993), (670, 29933), (725, 29774), (743, 29720), (762, 29636), (764, 29630), (766, 29618), (783, 29543), (789, 29522), (810, 29468), (811, 29465), (820, 29441),

Gene: Gargoyle_41 Start: 31123, Stop: 29735, Start Num: 370

Candidate Starts for Gargoyle_41:

(120, 31774), (242, 31420), (274, 31345), (Start: 370 @31123 has 138 MA's), (419, 30979), (421, 30973), (422, 30970), (463, 30856), (474, 30829), (490, 30769), (499, 30742), (501, 30739), (538, 30643), (550, 30601), (594, 30430), (601, 30409), (606, 30394), (632, 30334), (670, 30274), (702, 30178), (725, 30115), (743, 30061), (762, 29977), (764, 29971), (766, 29959), (789, 29863), (810, 29809), (811, 29806), (820, 29782),

Gene: Garnacho_117 Start: 66839, Stop: 68410, Start Num: 204

Candidate Starts for Garnacho_117:

(Start: 204 @66839 has 4 MA's), (238, 66920), (239, 66926), (243, 66944), (245, 66947), (277, 67010), (350, 67157), (390, 67223), (418, 67286), (442, 67361), (476, 67463), (483, 67487), (500, 67538), (503, 67547), (509, 67562), (511, 67568), (513, 67574), (533, 67622), (539, 67637), (727, 68012), (766, 68135), (768, 68147), (802, 68267), (826, 68336),

Gene: Gelo_40 Start: 30809, Stop: 29421, Start Num: 370

Candidate Starts for Gelo_40:

(274, 31031), (Start: 370 @30809 has 138 MA's), (419, 30665), (421, 30659), (422, 30656), (463, 30542), (474, 30515), (490, 30455), (499, 30428), (501, 30425), (538, 30329), (550, 30287), (594, 30116), (601, 30095), (606, 30080), (612, 30068), (632, 30020), (670, 29960), (702, 29864), (725, 29801), (743, 29747), (762, 29663), (764, 29657), (766, 29645), (783, 29570), (789, 29549), (810, 29495), (811, 29492), (820, 29468),

Gene: Genamy16_63 Start: 39814, Stop: 41730, Start Num: 55

Candidate Starts for Genamy16_63:

(Start: 55 @39814 has 13 MA's), (Start: 56 @39817 has 54 MA's), (Start: 70 @39829 has 16 MA's), (86, 39877), (105, 39910), (163, 40051), (171, 40069), (184, 40096), (188, 40105), (226, 40177), (273, 40297), (295, 40360), (350, 40450), (361, 40477), (420, 40606), (427, 40630), (441, 40672), (446, 40684), (455, 40699), (460, 40720), (465, 40741), (473, 40762), (490, 40819), (495, 40837), (511, 40873), (529, 40915), (549, 40975), (586, 41071), (587, 41074), (685, 41251), (708, 41302), (743, 41392), (753, 41428), (755, 41434), (768, 41488), (779, 41527), (808, 41629), (813, 41644), (822, 41665),

Gene: Gerri43_39 Start: 26376, Stop: 24544, Start Num: 65

Candidate Starts for Gerri43_39:

(Start: 65 @26376 has 9 MA's), (88, 26319), (187, 26118), (239, 25983), (292, 25848), (306, 25821), (385, 25764), (390, 25749), (408, 25695), (427, 25599), (429, 25593), (433, 25578), (452, 25533), (465, 25485), (473, 25464), (477, 25446), (493, 25395), (531, 25302), (536, 25290), (577, 25227), (609, 25155), (638, 25095), (655, 25074), (688, 25008), (695, 24990), (701, 24972), (702, 24969), (713, 24933), (753, 24825), (756, 24816), (771, 24756), (782, 24708),

Gene: Gershwin_40 Start: 30816, Stop: 29428, Start Num: 370

Candidate Starts for Gershwin_40:

(274, 31038), (Start: 370 @30816 has 138 MA's), (419, 30672), (421, 30666), (422, 30663), (463, 30549), (474, 30522), (490, 30462), (499, 30435), (501, 30432), (537, 30339), (538, 30336), (550, 30294), (594, 30123), (601, 30102), (606, 30087), (612, 30075), (632, 30027), (670, 29967), (702, 29871), (725, 29808), (743, 29754), (762, 29670), (764, 29664), (766, 29652), (783, 29577), (789, 29556), (810, 29502), (811, 29499), (820, 29475),

Gene: Ghobes_35 Start: 32092, Stop: 30689, Start Num: 219

Candidate Starts for Ghobes_35:

(118, 32332), (119, 32329), (160, 32218), (Start: 219 @32092 has 3 MA's), (239, 32017), (248, 31993), (Start: 249 @31990 has 1 MA's), (272, 31960), (273, 31957), (327, 31846), (421, 31771), (422, 31768), (435, 31717), (437, 31714), (458, 31687), (465, 31663), (474, 31636), (524, 31510), (525, 31507), (591, 31384), (592, 31381), (605, 31351), (606, 31348), (645, 31264), (664, 31219), (700, 31117), (714, 31072), (730, 31042), (731, 31039), (761, 30946), (764, 30934), (791, 30820), (802, 30778),

Gene: GiJojo_116 Start: 68346, Stop: 69914, Start Num: 205

Candidate Starts for GiJojo_116:

(Start: 205 @68346 has 1 MA's), (238, 68424), (239, 68430), (245, 68451), (248, 68457), (269, 68493), (277, 68514), (299, 68577), (301, 68580), (313, 68595), (350, 68661), (390, 68727), (393, 68736), (442, 68865), (476, 68967), (483, 68991), (487, 69003), (500, 69042), (503, 69051), (513, 69078), (539, 69141), (685, 69411), (733, 69534), (764, 69627), (766, 69639), (802, 69771), (826, 69840), (830, 69846), (855, 69894),

Gene: Gibbin_62 Start: 41245, Stop: 43161, Start Num: 55

Candidate Starts for Gibbin_62:

(19, 41122), (22, 41131), (23, 41143), (34, 41176), (50, 41233), (Start: 55 @41245 has 13 MA's), (Start: 56 @41248 has 54 MA's), (Start: 70 @41260 has 16 MA's), (86, 41308), (105, 41341), (132,

41410), (171, 41500), (184, 41527), (188, 41536), (226, 41608), (251, 41695), (273, 41728), (295, 41791), (350, 41881), (420, 42037), (427, 42061), (441, 42103), (460, 42151), (465, 42172), (473, 42193), (490, 42250), (495, 42268), (511, 42304), (529, 42346), (549, 42406), (586, 42502), (587, 42505), (708, 42733), (743, 42823), (753, 42859), (755, 42865), (768, 42919), (779, 42958), (808, 43060), (813, 43075), (822, 43096),

Gene: Gibbles_56 Start: 50443, Stop: 48953, Start Num: 192

Candidate Starts for Gibbles_56:

(Start: 192 @50443 has 5 MA's), (229, 50350), (232, 50341), (236, 50329), (239, 50314), (243, 50296), (273, 50239), (299, 50167), (301, 50164), (386, 50071), (399, 50038), (419, 50005), (420, 50002), (426, 49981), (462, 49912), (473, 49876), (504, 49789), (525, 49738), (532, 49726), (534, 49723), (547, 49693), (587, 49621), (590, 49612), (661, 49489), (662, 49483), (744, 49309), (757, 49264), (765, 49234), (849, 48982),

Gene: Gibson_70 Start: 50318, Stop: 48432, Start Num: 61

Candidate Starts for Gibson_70:

(Start: 61 @50318 has 8 MA's), (Start: 70 @50303 has 16 MA's), (96, 50240), (Start: 100 @50231 has 1 MA's), (147, 50126), (165, 50087), (175, 50063), (216, 49988), (226, 49964), (284, 49805), (298, 49766), (306, 49757), (361, 49649), (406, 49541), (460, 49388), (475, 49337), (493, 49277), (531, 49190), (532, 49187), (586, 49082), (589, 49073), (594, 49061), (642, 48962), (708, 48845), (712, 48833), (724, 48806), (754, 48716), (759, 48701), (771, 48647), (783, 48590), (822, 48482), (831, 48464),

Gene: Gilda_40 Start: 25935, Stop: 27842, Start Num: 68

Candidate Starts for Gilda_40:

(Start: 68 @25935 has 34 MA's), (96, 25998), (109, 26019), (128, 26073), (216, 26250), (231, 26295), (298, 26469), (306, 26478), (355, 26568), (378, 26625), (443, 26811), (490, 26946), (493, 26958), (510, 26991), (577, 27120), (626, 27237), (676, 27312), (753, 27546), (754, 27549), (768, 27609), (788, 27699), (802, 27729), (815, 27771), (840, 27822),

Gene: Gisselle_25 Start: 20615, Stop: 22009, Start Num: 212

Candidate Starts for Gisselle_25:

(Start: 212 @20615 has 74 MA's), (232, 20672), (279, 20777), (280, 20780), (320, 20864), (385, 20897), (421, 20951), (422, 20954), (462, 21044), (473, 21080), (478, 21101), (489, 21134), (495, 21155), (577, 21287), (585, 21314), (601, 21353), (612, 21380), (627, 21413), (633, 21428), (637, 21437), (659, 21482), (671, 21518), (701, 21599), (708, 21623), (714, 21641), (721, 21653), (744, 21713), (749, 21737), (753, 21743), (754, 21746), (760, 21764), (761, 21767), (766, 21791), (767, 21800), (789, 21887), (807, 21938), (823, 21977),

Gene: Giuseppe_53 Start: 39718, Stop: 41661, Start Num: 56

Candidate Starts for Giuseppe_53:

(Start: 56 @39718 has 54 MA's), (74, 39745), (Start: 106 @39817 has 1 MA's), (127, 39871), (151, 39931), (159, 39949), (163, 39958), (187, 40009), (208, 40051), (226, 40087), (251, 40174), (291, 40267), (299, 40282), (313, 40303), (Start: 370 @40405 has 138 MA's), (385, 40438), (394, 40462), (422, 40522), (455, 40609), (476, 40684), (511, 40774), (532, 40825), (534, 40828), (569, 40918), (577, 40936), (586, 40969), (610, 41023), (616, 41035), (626, 41053), (662, 41116), (700, 41200), (743, 41317), (753, 41365), (769, 41428), (787, 41512),

Gene: Glamour_40 Start: 31091, Stop: 29679, Start Num: 376

Candidate Starts for Glamour_40:

(Start: 376 @31091 has 23 MA's), (385, 31061), (Start: 387 @31055 has 1 MA's), (400, 31022), (463, 30830), (474, 30803), (490, 30743), (499, 30716), (501, 30713), (516, 30671), (538, 30617), (550, 30575), (576, 30461), (594, 30404), (601, 30383), (606, 30368), (612, 30356), (615, 30344), (617,

30341), (626, 30323), (658, 30242), (670, 30206), (689, 30152), (701, 30110), (710, 30080), (722, 30056), (724, 30050), (739, 30008), (753, 29939), (761, 29915), (762, 29909), (764, 29903), (766, 29891), (789, 29795), (794, 29786), (802, 29768), (805, 29756), (822, 29711),

Gene: Glenn_29 Start: 22157, Stop: 23557, Start Num: 212

Candidate Starts for Glenn_29:

(Start: 212 @22157 has 74 MA's), (232, 22220), (279, 22325), (280, 22328), (320, 22412), (385, 22445), (420, 22496), (422, 22502), (458, 22583), (459, 22586), (462, 22592), (473, 22628), (477, 22646), (478, 22649), (489, 22682), (495, 22703), (508, 22721), (523, 22754), (577, 22835), (585, 22862), (596, 22892), (601, 22901), (612, 22928), (627, 22961), (633, 22976), (659, 23030), (666, 23051), (670, 23063), (678, 23075), (755, 23297), (758, 23306), (760, 23312), (767, 23348), (782, 23408), (789, 23435), (823, 23525),

Gene: Gmala1_55 Start: 48612, Stop: 47071, Start Num: 186

Candidate Starts for Gmala1_55:

(186, 48612), (232, 48507), (239, 48480), (261, 48426), (272, 48408), (293, 48348), (297, 48339), (331, 48288), (383, 48264), (Start: 387 @48252 has 1 MA's), (389, 48246), (406, 48201), (420, 48186), (426, 48165), (427, 48162), (470, 48063), (477, 48036), (511, 47952), (519, 47928), (532, 47904), (547, 47871), (590, 47790), (619, 47742), (628, 47727), (669, 47634), (682, 47607), (683, 47604), (706, 47520), (722, 47484), (727, 47469), (743, 47424), (764, 47352), (765, 47346), (802, 47205), (849, 47106), (850, 47103),

Gene: GodonK_184 Start: 93693, Stop: 91774, Start Num: 65

Candidate Starts for GodonK_184:

(Start: 65 @93693 has 9 MA's), (80, 93651), (135, 93537), (171, 93462), (210, 93393), (229, 93324), (390, 93051), (397, 93033), (406, 93009), (414, 92970), (470, 92790), (495, 92706), (507, 92682), (531, 92622), (536, 92610), (547, 92583), (586, 92514), (587, 92511), (674, 92295), (678, 92277), (680, 92271), (700, 92205), (712, 92166), (718, 92154), (730, 92127), (756, 92046), (765, 92013), (769, 91992), (778, 91959), (788, 91908), (797, 91890),

Gene: GoingMerry_42 Start: 31128, Stop: 29740, Start Num: 370

Candidate Starts for GoingMerry_42:

(242, 31425), (274, 31350), (Start: 370 @31128 has 138 MA's), (419, 30984), (421, 30978), (422, 30975), (463, 30861), (474, 30834), (490, 30774), (499, 30747), (501, 30744), (538, 30648), (550, 30606), (594, 30435), (601, 30414), (612, 30387), (632, 30339), (670, 30279), (725, 30120), (743, 30066), (762, 29982), (764, 29976), (766, 29964), (789, 29868), (810, 29814), (811, 29811), (820, 29787),

Gene: Golden_39 Start: 30647, Stop: 29256, Start Num: 372

Candidate Starts for Golden_39:

(Start: 372 @30647 has 8 MA's), (Start: 376 @30644 has 23 MA's), (385, 30614), (419, 30506), (422, 30497), (437, 30443), (473, 30362), (490, 30296), (501, 30266), (517, 30221), (538, 30170), (590, 29966), (594, 29957), (606, 29918), (612, 29906), (615, 29894), (617, 29891), (635, 29855), (640, 29846), (658, 29831), (670, 29795), (676, 29783), (680, 29771), (702, 29696), (725, 29636), (753, 29528), (756, 29519), (761, 29504), (762, 29498), (764, 29492), (837, 29270),

Gene: GoldenEssence_87 Start: 74530, Stop: 76368, Start Num: 63

Candidate Starts for GoldenEssence_87:

(Start: 63 @74530 has 11 MA's), (135, 74689), (181, 74785), (Start: 227 @74845 has 28 MA's), (236, 74875), (272, 74965), (283, 74995), (301, 75046), (384, 75106), (509, 75502), (517, 75523), (536, 75568), (575, 75625), (577, 75631), (586, 75664), (590, 75676), (595, 75688), (602, 75703), (616, 75733), (635, 75772), (676, 75829), (678, 75835), (688, 75868), (710, 75937), (744, 76021), (775, 76138), (832, 76312), (854, 76354),

Gene: GoneGirl_41 Start: 31218, Stop: 29833, Start Num: 370

Candidate Starts for GoneGirl_41:

(359, 31248), (Start: 370 @31218 has 138 MA's), (415, 31095), (419, 31074), (421, 31068), (422, 31065), (463, 30951), (490, 30864), (499, 30837), (501, 30834), (538, 30738), (550, 30696), (594, 30525), (606, 30489), (670, 30369), (680, 30345), (725, 30210), (743, 30156), (755, 30096), (762, 30072), (764, 30066), (766, 30054), (789, 29958), (810, 29904),

Gene: Goodman_34 Start: 23371, Stop: 24798, Start Num: 217

Candidate Starts for Goodman_34:

(Start: 217 @23371 has 16 MA's), (299, 23587), (397, 23689), (421, 23728), (441, 23791), (465, 23836), (473, 23857), (510, 23956), (591, 24124), (612, 24172), (622, 24193), (633, 24220), (646, 24247), (659, 24277), (661, 24283), (677, 24319), (702, 24397), (733, 24481), (743, 24499), (744, 24502), (767, 24589), (771, 24601), (781, 24640), (789, 24676), (791, 24682), (809, 24733), (818, 24757),

Gene: GordDuk1_59 Start: 49176, Stop: 47635, Start Num: 186

Candidate Starts for GordDuk1_59:

(186, 49176), (232, 49071), (239, 49044), (261, 48990), (272, 48972), (293, 48912), (297, 48903), (331, 48852), (383, 48828), (Start: 387 @48816 has 1 MA's), (389, 48810), (406, 48765), (420, 48750), (426, 48729), (427, 48726), (470, 48627), (477, 48600), (511, 48516), (519, 48492), (532, 48468), (547, 48435), (548, 48426), (583, 48378), (590, 48354), (619, 48306), (669, 48198), (682, 48171), (706, 48084), (722, 48048), (727, 48033), (743, 47988), (764, 47916), (765, 47910), (849, 47670), (850, 47667),

Gene: GordTnk2_60 Start: 49330, Stop: 47789, Start Num: 186

Candidate Starts for GordTnk2_60:

(186, 49330), (232, 49225), (239, 49198), (261, 49144), (272, 49126), (293, 49066), (297, 49057), (331, 49006), (383, 48982), (Start: 387 @48970 has 1 MA's), (389, 48964), (406, 48919), (420, 48904), (426, 48883), (427, 48880), (470, 48781), (477, 48754), (511, 48670), (519, 48646), (532, 48622), (547, 48589), (590, 48508), (619, 48460), (669, 48352), (682, 48325), (683, 48322), (706, 48238), (722, 48202), (727, 48187), (743, 48142), (764, 48070), (765, 48064), (802, 47923), (849, 47824), (850, 47821),

Gene: Gorko_58 Start: 51458, Stop: 49926, Start Num: 176

Candidate Starts for Gorko_58:

(72, 51713), (89, 51662), (114, 51611), (133, 51557), (145, 51527), (Start: 158 @51494 has 3 MA's), (164, 51485), (Start: 176 @51458 has 28 MA's), (239, 51290), (251, 51248), (272, 51200), (277, 51188), (282, 51176), (283, 51170), (288, 51149), (306, 51122), (421, 50981), (462, 50894), (465, 50879), (470, 50867), (478, 50837), (494, 50786), (510, 50759), (532, 50708), (574, 50648), (575, 50645), (583, 50618), (599, 50576), (624, 50531), (684, 50396), (688, 50381), (694, 50360), (743, 50279), (744, 50276), (761, 50219), (762, 50213), (764, 50207), (765, 50201), (782, 50126), (791, 50087), (797, 50075), (798, 50072), (837, 49979), (845, 49964), (855, 49943),

Gene: GourdThymes_59 Start: 52332, Stop: 50800, Start Num: 176

Candidate Starts for GourdThymes_59:

(72, 52587), (89, 52536), (114, 52485), (133, 52431), (145, 52401), (Start: 158 @52368 has 3 MA's), (164, 52359), (Start: 176 @52332 has 28 MA's), (239, 52164), (251, 52122), (272, 52074), (277, 52062), (282, 52050), (283, 52044), (288, 52023), (306, 51996), (421, 51855), (462, 51768), (465, 51753), (470, 51741), (478, 51711), (494, 51660), (510, 51633), (532, 51582), (544, 51558), (548, 51540), (574, 51522), (575, 51519), (583, 51492), (599, 51450), (624, 51405), (684, 51270), (688, 51255), (694, 51234), (733, 51177), (743, 51153), (744, 51150), (761, 51093), (762, 51087), (764, 51081), (765, 51075), (777, 51024), (782, 51000), (791, 50961), (797, 50949), (798, 50946), (837,

50853), (845, 50838), (855, 50817),

Gene: Graynor_30 Start: 22151, Stop: 23545, Start Num: 212

Candidate Starts for Graynor_30:

(Start: 212 @22151 has 74 MA's), (232, 22208), (279, 22313), (320, 22400), (421, 22487), (422, 22490), (462, 22580), (473, 22616), (475, 22625), (477, 22634), (495, 22691), (508, 22709), (523, 22742), (577, 22823), (585, 22850), (612, 22916), (627, 22949), (633, 22964), (637, 22973), (678, 23063), (700, 23132), (708, 23159), (714, 23177), (721, 23189), (753, 23279), (755, 23285), (758, 23294), (760, 23300), (767, 23336), (789, 23423), (807, 23474), (809, 23480), (823, 23513), (834, 23537),

Gene: GreenHearts_29 Start: 22236, Stop: 23627, Start Num: 212

Candidate Starts for GreenHearts_29:

(Start: 212 @22236 has 74 MA's), (240, 22323), (279, 22395), (280, 22398), (306, 22464), (320, 22482), (323, 22488), (385, 22515), (422, 22572), (435, 22623), (462, 22662), (473, 22698), (477, 22716), (489, 22752), (495, 22773), (508, 22791), (523, 22824), (545, 22863), (577, 22905), (585, 22932), (593, 22956), (610, 22992), (612, 22998), (627, 23031), (633, 23046), (637, 23055), (659, 23100), (670, 23133), (671, 23136), (702, 23220), (708, 23241), (712, 23253), (714, 23259), (721, 23271), (753, 23361), (754, 23364), (755, 23367), (760, 23382), (761, 23385), (766, 23409), (767, 23418), (789, 23505), (807, 23556), (823, 23595), (834, 23619),

Gene: Greenlvy_40 Start: 29681, Stop: 28254, Start Num: 373

Candidate Starts for Greenlvy_40:

(256, 29951), (267, 29927), (278, 29900), (291, 29852), (312, 29813), (Start: 373 @29681 has 21 MA's), (383, 29651), (385, 29645), (421, 29531), (422, 29528), (423, 29525), (499, 29291), (501, 29288), (576, 29033), (591, 28982), (594, 28976), (612, 28928), (626, 28895), (670, 28781), (675, 28772), (689, 28727), (691, 28721), (698, 28694), (725, 28622), (747, 28550), (753, 28514), (756, 28505), (761, 28490), (762, 28484), (766, 28466), (776, 28424), (794, 28361), (820, 28289),

Gene: Greenbelt_68 Start: 46451, Stop: 44553, Start Num: 54

Candidate Starts for Greenbelt_68:

(43, 46496), (Start: 54 @46451 has 2 MA's), (57, 46445), (Start: 65 @46433 has 9 MA's), (Start: 100 @46355 has 1 MA's), (128, 46289), (135, 46271), (147, 46250), (167, 46205), (175, 46187), (189, 46157), (216, 46112), (226, 46088), (273, 45962), (303, 45887), (306, 45884), (326, 45851), (342, 45818), (361, 45779), (407, 45668), (420, 45629), (446, 45554), (493, 45407), (510, 45374), (532, 45317), (586, 45212), (594, 45191), (679, 45050), (712, 44960), (728, 44927), (759, 44828), (768, 44783), (771, 44774), (810, 44639), (840, 44573), (842, 44570),

Gene: Greenhouse_29 Start: 22160, Stop: 23551, Start Num: 212

Candidate Starts for Greenhouse_29:

(166, 22058), (182, 22100), (Start: 194 @22127 has 3 MA's), (Start: 212 @22160 has 74 MA's), (240, 22247), (279, 22319), (280, 22322), (306, 22388), (320, 22406), (323, 22412), (385, 22439), (422, 22496), (435, 22547), (440, 22553), (441, 22556), (462, 22586), (473, 22622), (477, 22640), (489, 22676), (495, 22697), (508, 22715), (545, 22787), (577, 22829), (585, 22856), (593, 22880), (610, 22916), (612, 22922), (627, 22955), (633, 22970), (637, 22979), (670, 23057), (671, 23060), (702, 23144), (708, 23165), (712, 23177), (714, 23183), (721, 23195), (753, 23285), (760, 23306), (761, 23309), (766, 23333), (767, 23342), (789, 23429), (807, 23480), (823, 23519), (834, 23543),

Gene: Gretellyn_60 Start: 41292, Stop: 43208, Start Num: 55

Candidate Starts for Gretellyn_60:

(Start: 55 @41292 has 13 MA's), (Start: 56 @41295 has 54 MA's), (Start: 70 @41307 has 16 MA's), (86, 41355), (105, 41388), (132, 41457), (171, 41547), (184, 41574), (188, 41583), (226, 41655), (251, 41742), (273, 41775), (295, 41838), (350, 41928), (361, 41955), (420, 42084), (427, 42108), (441,

42150), (460, 42198), (465, 42219), (473, 42240), (490, 42297), (511, 42351), (529, 42393), (549, 42453), (586, 42549), (587, 42552), (685, 42729), (708, 42780), (743, 42870), (753, 42906), (755, 42912), (768, 42966), (779, 43005), (808, 43107), (813, 43122), (822, 43143),

Gene: Greys_41 Start: 31116, Stop: 29728, Start Num: 370

Candidate Starts for Greys_41:

(120, 31767), (242, 31413), (274, 31338), (Start: 370 @31116 has 138 MA's), (419, 30972), (421, 30966), (422, 30963), (463, 30849), (474, 30822), (490, 30762), (499, 30735), (501, 30732), (538, 30636), (550, 30594), (594, 30423), (601, 30402), (612, 30375), (632, 30327), (670, 30267), (725, 30108), (743, 30054), (762, 29970), (764, 29964), (766, 29952), (789, 29856), (810, 29802), (811, 29799), (820, 29775),

Gene: GrootJr_74 Start: 56101, Stop: 54035, Start Num: 36

Candidate Starts for GrootJr_74:

(8, 56305), (9, 56293), (11, 56275), (Start: 36 @56101 has 34 MA's), (Start: 87 @55963 has 2 MA's), (Start: 98 @55939 has 3 MA's), (188, 55735), (213, 55690), (251, 55582), (303, 55468), (306, 55465), (355, 55375), (357, 55372), (Start: 387 @55312 has 1 MA's), (441, 55174), (450, 55156), (458, 55132), (495, 55009), (532, 54904), (577, 54778), (594, 54724), (660, 54598), (662, 54589), (671, 54565), (700, 54493), (702, 54487), (710, 54457), (733, 54400), (753, 54340), (769, 54277), (787, 54196),

Gene: Gubbabump_40 Start: 30796, Stop: 29408, Start Num: 370

Candidate Starts for Gubbabump_40:

(120, 31447), (242, 31093), (274, 31018), (Start: 370 @30796 has 138 MA's), (419, 30652), (421, 30646), (422, 30643), (463, 30529), (474, 30502), (490, 30442), (499, 30415), (501, 30412), (538, 30316), (550, 30274), (594, 30103), (601, 30082), (606, 30067), (632, 30007), (670, 29947), (702, 29851), (725, 29788), (743, 29734), (762, 29650), (764, 29644), (766, 29632), (789, 29536), (810, 29482), (811, 29479), (820, 29455),

Gene: Guetzie_40 Start: 30629, Stop: 29241, Start Num: 376

Candidate Starts for Guetzie_40:

(Start: 372 @30632 has 8 MA's), (Start: 376 @30629 has 23 MA's), (385, 30599), (419, 30491), (422, 30482), (437, 30428), (473, 30347), (490, 30281), (501, 30251), (517, 30206), (538, 30155), (590, 29951), (594, 29942), (606, 29903), (612, 29891), (615, 29879), (617, 29876), (635, 29840), (640, 29831), (658, 29816), (670, 29780), (676, 29768), (680, 29756), (702, 29681), (725, 29621), (753, 29513), (756, 29504), (761, 29489), (762, 29483), (764, 29477), (837, 29255),

Gene: Guillaume_57 Start: 52620, Stop: 51208, Start Num: 227

Candidate Starts for Guillaume_57:

(72, 52968), (123, 52839), (Start: 158 @52749 has 3 MA's), (Start: 227 @52620 has 28 MA's), (239, 52575), (272, 52485), (273, 52482), (276, 52476), (283, 52455), (317, 52392), (406, 52284), (421, 52266), (462, 52179), (465, 52164), (478, 52122), (511, 52041), (532, 51993), (548, 51951), (574, 51933), (575, 51930), (583, 51903), (602, 51852), (624, 51816), (646, 51765), (684, 51681), (690, 51660), (761, 51504), (762, 51498), (765, 51486), (797, 51360), (845, 51246),

Gene: Gumball_52 Start: 39923, Stop: 41866, Start Num: 56

Candidate Starts for Gumball_52:

(38, 39860), (Start: 56 @39923 has 54 MA's), (74, 39950), (Start: 106 @40022 has 1 MA's), (127, 40076), (151, 40136), (163, 40163), (187, 40214), (208, 40256), (226, 40292), (251, 40379), (291, 40472), (299, 40487), (313, 40508), (Start: 370 @40610 has 138 MA's), (385, 40643), (394, 40667), (422, 40727), (455, 40814), (476, 40889), (511, 40979), (532, 41030), (534, 41033), (569, 41123), (577, 41141), (586, 41174), (616, 41240), (626, 41258), (662, 41321), (700, 41405), (743, 41522), (753, 41570), (769, 41633), (787, 41717),

Gene: Hager_41 Start: 25422, Stop: 27329, Start Num: 68

Candidate Starts for Hager_41:

(17, 25248), (Start: 68 @25422 has 34 MA's), (96, 25485), (109, 25506), (128, 25560), (207, 25722), (216, 25737), (231, 25782), (298, 25956), (306, 25965), (355, 26055), (357, 26058), (Start: 370 @26097 has 138 MA's), (378, 26112), (383, 26130), (443, 26298), (476, 26391), (479, 26406), (490, 26433), (493, 26445), (510, 26478), (577, 26607), (626, 26724), (743, 26997), (754, 27036), (768, 27096), (788, 27186), (802, 27216), (815, 27258), (840, 27309),

Gene: Hail2Pitt_56 Start: 53096, Stop: 51684, Start Num: 227

Candidate Starts for Hail2Pitt_56:

(72, 53444), (123, 53315), (156, 53228), (Start: 158 @53225 has 3 MA's), (Start: 227 @53096 has 28 MA's), (239, 53051), (272, 52961), (273, 52958), (276, 52952), (283, 52931), (317, 52868), (406, 52760), (421, 52742), (462, 52655), (465, 52640), (478, 52598), (511, 52517), (532, 52469), (548, 52427), (574, 52409), (575, 52406), (583, 52379), (602, 52328), (624, 52292), (646, 52241), (684, 52157), (690, 52136), (761, 51980), (762, 51974), (765, 51962), (797, 51836), (845, 51722),

Gene: HairyMan_37 Start: 30138, Stop: 28738, Start Num: 374

Candidate Starts for HairyMan_37:

(356, 30183), (371, 30141), (Start: 374 @30138 has 1 MA's), (377, 30132), (419, 29994), (421, 29988), (422, 29985), (440, 29928), (474, 29844), (501, 29754), (538, 29658), (548, 29625), (550, 29616), (571, 29523), (594, 29445), (601, 29424), (612, 29397), (670, 29286), (701, 29193), (703, 29187), (739, 29088), (751, 29025), (753, 29019), (761, 28995), (762, 28989), (764, 28983), (766, 28971), (789, 28875), (810, 28821),

Gene: Hamlet_40 Start: 31266, Stop: 29875, Start Num: 370

Candidate Starts for Hamlet_40:

(314, 31368), (316, 31365), (317, 31362), (Start: 370 @31266 has 138 MA's), (419, 31119), (421, 31113), (422, 31110), (463, 30996), (474, 30969), (490, 30909), (499, 30882), (501, 30879), (538, 30783), (550, 30741), (594, 30570), (601, 30549), (612, 30522), (670, 30414), (702, 30318), (743, 30201), (747, 30183), (762, 30117), (764, 30111), (766, 30099), (789, 30003), (810, 29949), (811, 29946), (820, 29922), (836, 29892),

Gene: HanSolo_40 Start: 30803, Stop: 29415, Start Num: 370

Candidate Starts for HanSolo_40:

(120, 31454), (242, 31100), (274, 31025), (Start: 370 @30803 has 138 MA's), (419, 30659), (421, 30653), (422, 30650), (463, 30536), (474, 30509), (490, 30449), (499, 30422), (501, 30419), (538, 30323), (550, 30281), (594, 30110), (606, 30074), (632, 30014), (670, 29954), (702, 29858), (725, 29795), (743, 29741), (762, 29657), (764, 29651), (766, 29639), (789, 29543), (810, 29489), (811, 29486), (820, 29462),

Gene: HankSprout_41 Start: 30683, Stop: 29295, Start Num: 370

Candidate Starts for HankSprout_41:

(274, 30905), (Start: 370 @30683 has 138 MA's), (419, 30539), (421, 30533), (422, 30530), (463, 30416), (474, 30389), (490, 30329), (499, 30302), (501, 30299), (538, 30203), (550, 30161), (575, 30050), (594, 29990), (601, 29969), (606, 29954), (632, 29894), (670, 29834), (702, 29738), (725, 29675), (743, 29621), (762, 29537), (764, 29531), (766, 29519), (789, 29423), (810, 29369), (811, 29366), (820, 29342),

Gene: Harambe_57 Start: 52887, Stop: 51475, Start Num: 227

Candidate Starts for Harambe_57:

(72, 53235), (123, 53106), (156, 53019), (Start: 158 @53016 has 3 MA's), (Start: 227 @52887 has 28 MA's), (239, 52842), (272, 52752), (273, 52749), (276, 52743), (283, 52722), (317, 52659), (406, 52551), (421, 52533), (462, 52446), (465, 52431), (478, 52389), (511, 52308), (532, 52260), (548,

52218), (574, 52200), (575, 52197), (583, 52170), (602, 52119), (624, 52083), (646, 52032), (684, 51948), (690, 51927), (761, 51771), (762, 51765), (765, 51753), (797, 51627), (845, 51513),

Gene: Hasitha_40 Start: 29084, Stop: 27657, Start Num: 373

Candidate Starts for Hasitha_40:

(Start: 373 @29084 has 21 MA's), (383, 29054), (385, 29048), (421, 28934), (422, 28931), (499, 28694), (501, 28691), (576, 28436), (591, 28385), (594, 28379), (612, 28331), (626, 28298), (632, 28283), (661, 28211), (670, 28184), (675, 28175), (689, 28130), (691, 28124), (698, 28097), (725, 28025), (747, 27953), (753, 27917), (756, 27908), (761, 27893), (762, 27887), (766, 27869), (776, 27827), (794, 27764), (816, 27701), (820, 27692),

Gene: Haunter_40 Start: 25327, Stop: 27234, Start Num: 68

Candidate Starts for Haunter_40:

(Start: 68 @25327 has 34 MA's), (96, 25390), (109, 25411), (128, 25465), (149, 25507), (216, 25642), (231, 25687), (298, 25861), (306, 25870), (355, 25960), (378, 26017), (443, 26203), (490, 26338), (493, 26350), (510, 26383), (529, 26428), (577, 26512), (626, 26629), (743, 26902), (753, 26938), (754, 26941), (768, 27001), (788, 27091), (802, 27121), (815, 27163), (840, 27214),

Gene: HavenFinLeoSun_42 Start: 31494, Stop: 30088, Start Num: 370

Candidate Starts for HavenFinLeoSun_42:

(Start: 370 @31494 has 138 MA's), (419, 31347), (421, 31341), (463, 31224), (474, 31197), (490, 31137), (499, 31110), (501, 31107), (503, 31104), (538, 31011), (550, 30969), (590, 30807), (594, 30798), (601, 30777), (603, 30771), (658, 30678), (670, 30642), (680, 30618), (703, 30543), (743, 30429), (755, 30369), (762, 30345), (764, 30339), (766, 30327), (802, 30204), (810, 30177), (820, 30150),

Gene: Hawkeye_56 Start: 39560, Stop: 41506, Start Num: 53

Candidate Starts for Hawkeye_56:

(Start: 53 @39560 has 1 MA's), (93, 39638), (124, 39707), (127, 39716), (138, 39746), (151, 39776), (163, 39803), (169, 39815), (208, 39893), (216, 39905), (251, 40016), (272, 40049), (299, 40124), (348, 40202), (362, 40232), (378, 40268), (398, 40322), (422, 40373), (462, 40487), (494, 40595), (531, 40673), (532, 40676), (542, 40700), (547, 40712), (569, 40769), (573, 40775), (577, 40787), (583, 40808), (586, 40820), (600, 40856), (616, 40886), (626, 40904), (662, 40967), (700, 41051), (710, 41087), (731, 41132), (743, 41168), (753, 41216), (755, 41222), (769, 41279), (839, 41483), (844, 41489), (846, 41492),

Gene: HayZem_62 Start: 52710, Stop: 51079, Start Num: 116

Candidate Starts for HayZem_62:

(Start: 116 @52710 has 3 MA's), (121, 52698), (141, 52647), (143, 52641), (170, 52584), (239, 52443), (251, 52401), (256, 52389), (272, 52353), (273, 52350), (283, 52323), (296, 52287), (306, 52275), (317, 52260), (406, 52152), (462, 52047), (465, 52032), (511, 51909), (532, 51861), (544, 51837), (548, 51819), (583, 51771), (602, 51720), (624, 51684), (631, 51666), (684, 51549), (713, 51498), (733, 51456), (753, 51396), (765, 51354), (777, 51303), (782, 51279), (845, 51117), (855, 51096),

Gene: Hello_57 Start: 52849, Stop: 51437, Start Num: 227

Candidate Starts for Hello_57:

(72, 53197), (123, 53068), (156, 52981), (Start: 158 @52978 has 3 MA's), (Start: 227 @52849 has 28 MA's), (239, 52804), (272, 52714), (273, 52711), (276, 52705), (283, 52684), (317, 52621), (406, 52513), (421, 52495), (462, 52408), (465, 52393), (478, 52351), (511, 52270), (532, 52222), (548, 52180), (574, 52162), (575, 52159), (583, 52132), (602, 52081), (624, 52045), (646, 51994), (684, 51910), (690, 51889), (761, 51733), (762, 51727), (765, 51715), (797, 51589), (845, 51475),

Gene: Helpful_56 Start: 40102, Stop: 42045, Start Num: 56

Candidate Starts for Helpful_56:

(32, 40033), (Start: 56 @40102 has 54 MA's), (74, 40129), (Start: 106 @40201 has 1 MA's), (127, 40255), (151, 40315), (159, 40333), (163, 40342), (187, 40393), (208, 40435), (226, 40471), (251, 40558), (291, 40651), (299, 40666), (313, 40687), (Start: 370 @40789 has 138 MA's), (385, 40822), (394, 40846), (422, 40906), (455, 40993), (476, 41068), (511, 41158), (532, 41209), (534, 41212), (569, 41302), (577, 41320), (586, 41353), (610, 41407), (616, 41419), (626, 41437), (662, 41500), (700, 41584), (743, 41701), (753, 41749), (769, 41812), (787, 41896),

Gene: Henococcus_42 Start: 30892, Stop: 32286, Start Num: 218

Candidate Starts for Henococcus_42:

(Start: 218 @30892 has 13 MA's), (Start: 219 @30895 has 3 MA's), (239, 30970), (248, 30994), (272, 31024), (273, 31027), (279, 31039), (329, 31129), (Start: 387 @31153 has 1 MA's), (420, 31198), (422, 31204), (441, 31264), (458, 31285), (475, 31339), (513, 31438), (524, 31465), (529, 31474), (591, 31600), (612, 31648), (622, 31669), (627, 31681), (633, 31696), (648, 31726), (661, 31759), (664, 31768), (682, 31810), (701, 31876), (702, 31879), (708, 31900), (714, 31918), (724, 31936), (744, 31990), (753, 32020), (767, 32077), (768, 32080), (781, 32128), (797, 32182), (821, 32251), (829, 32269),

Gene: Herb_26 Start: 21732, Stop: 23129, Start Num: 212

Candidate Starts for Herb_26:

(Start: 212 @21732 has 74 MA's), (232, 21792), (269, 21879), (279, 21897), (280, 21900), (320, 21984), (323, 21990), (385, 22017), (420, 22068), (422, 22074), (435, 22125), (441, 22134), (458, 22155), (462, 22164), (473, 22200), (478, 22221), (489, 22254), (495, 22275), (508, 22293), (510, 22299), (523, 22326), (531, 22338), (537, 22353), (577, 22407), (593, 22458), (596, 22464), (601, 22473), (603, 22479), (612, 22500), (627, 22533), (633, 22548), (637, 22557), (690, 22680), (701, 22719), (708, 22743), (712, 22755), (753, 22863), (755, 22869), (758, 22878), (760, 22884), (767, 22920), (789, 23007), (823, 23097), (834, 23121),

Gene: HerculesXL_40 Start: 29477, Stop: 28092, Start Num: 373

Candidate Starts for HerculesXL_40:

(Start: 373 @29477 has 21 MA's), (441, 29264), (463, 29201), (473, 29180), (499, 29087), (501, 29084), (509, 29063), (516, 29042), (550, 28946), (594, 28775), (602, 28751), (606, 28739), (612, 28727), (615, 28715), (617, 28712), (626, 28694), (632, 28679), (670, 28619), (676, 28607), (680, 28595), (702, 28523), (710, 28493), (725, 28460), (753, 28352), (756, 28343), (761, 28328), (762, 28322), (764, 28316), (766, 28304), (789, 28208), (794, 28199), (805, 28169), (820, 28127),

Gene: Hiddenleaf_40 Start: 25169, Stop: 27076, Start Num: 68

Candidate Starts for Hiddenleaf_40:

(17, 24995), (Start: 68 @25169 has 34 MA's), (96, 25232), (109, 25253), (128, 25307), (191, 25442), (216, 25484), (231, 25529), (298, 25703), (306, 25712), (355, 25802), (Start: 370 @25844 has 138 MA's), (378, 25859), (443, 26045), (490, 26180), (493, 26192), (510, 26225), (577, 26354), (626, 26471), (743, 26744), (754, 26783), (768, 26843), (788, 26933), (802, 26963), (815, 27005), (840, 27056),

Gene: Hollow_57 Start: 53503, Stop: 51797, Start Num: 95

Candidate Starts for Hollow_57:

(Start: 95 @53503 has 9 MA's), (Start: 99 @53491 has 2 MA's), (140, 53392), (Start: 148 @53371 has 1 MA's), (178, 53305), (229, 53206), (239, 53170), (243, 53146), (248, 53137), (251, 53128), (272, 53080), (282, 53056), (296, 53014), (308, 52999), (317, 52984), (Start: 387 @52927 has 1 MA's), (388, 52924), (419, 52864), (420, 52861), (441, 52795), (445, 52792), (465, 52756), (466, 52753), (473, 52735), (475, 52726), (478, 52714), (493, 52666), (511, 52633), (519, 52609), (532, 52585), (544, 52561), (583, 52495), (624, 52396), (683, 52264), (684, 52261), (743, 52144), (744, 52141), (761, 52084), (765, 52066), (791, 51949), (792, 51946), (798, 51934), (845, 51835), (855, 51814),

Gene: HomeFry_80 Start: 55194, Stop: 53140, Start Num: 36

Candidate Starts for HomeFry_80:

(Start: 36 @55194 has 34 MA's), (79, 55074), (94, 55041), (138, 54945), (139, 54942), (213, 54792), (251, 54684), (273, 54651), (282, 54630), (289, 54600), (306, 54567), (355, 54477), (Start: 387 @54414 has 1 MA's), (450, 54258), (465, 54207), (495, 54111), (508, 54078), (532, 54015), (547, 53979), (577, 53892), (602, 53823), (610, 53805), (662, 53700), (689, 53631), (700, 53598), (702, 53592), (710, 53562), (718, 53547), (733, 53505), (753, 53445), (769, 53382), (787, 53301), (800, 53277), (819, 53217),

Gene: Hotorobo_59 Start: 52337, Stop: 50805, Start Num: 176

Candidate Starts for Hotorobo_59:

(72, 52592), (89, 52541), (114, 52490), (133, 52436), (145, 52406), (Start: 158 @52373 has 3 MA's), (164, 52364), (Start: 176 @52337 has 28 MA's), (239, 52169), (251, 52127), (272, 52079), (277, 52067), (282, 52055), (283, 52049), (288, 52028), (306, 52001), (421, 51860), (462, 51773), (465, 51758), (470, 51746), (478, 51716), (494, 51665), (510, 51638), (532, 51587), (574, 51527), (575, 51524), (583, 51497), (599, 51455), (624, 51410), (684, 51275), (688, 51260), (694, 51239), (743, 51158), (744, 51155), (761, 51098), (762, 51092), (764, 51086), (765, 51080), (782, 51005), (791, 50966), (797, 50954), (798, 50951), (837, 50858), (845, 50843), (855, 50822),

Gene: Htur_33 Start: 23465, Stop: 24892, Start Num: 217

Candidate Starts for Htur_33:

(189, 23426), (203, 23447), (Start: 217 @23465 has 16 MA's), (421, 23822), (441, 23885), (465, 23930), (473, 23951), (591, 24218), (612, 24266), (622, 24287), (633, 24314), (646, 24341), (648, 24344), (659, 24371), (661, 24377), (677, 24413), (702, 24491), (708, 24512), (714, 24530), (721, 24542), (753, 24626), (767, 24683), (771, 24695), (781, 24734), (789, 24770), (791, 24776),

Gene: HubbaBubba_67 Start: 51701, Stop: 49620, Start Num: 36

Candidate Starts for HubbaBubba_67:

(9, 51893), (11, 51875), (Start: 36 @51701 has 34 MA's), (128, 51470), (189, 51332), (251, 51182), (273, 51149), (303, 51068), (306, 51065), (355, 50975), (357, 50972), (Start: 387 @50912 has 1 MA's), (450, 50756), (495, 50609), (532, 50501), (542, 50477), (577, 50375), (594, 50321), (602, 50306), (641, 50225), (662, 50186), (687, 50123), (700, 50084), (702, 50078), (710, 50048), (753, 49931), (769, 49868), (783, 49805), (787, 49787), (819, 49703),

Gene: HungryHenry_40 Start: 30808, Stop: 29420, Start Num: 370

Candidate Starts for HungryHenry_40:

(120, 31459), (242, 31105), (274, 31030), (Start: 370 @30808 has 138 MA's), (419, 30664), (421, 30658), (422, 30655), (463, 30541), (474, 30514), (490, 30454), (499, 30427), (501, 30424), (538, 30328), (550, 30286), (594, 30115), (601, 30094), (606, 30079), (632, 30019), (670, 29959), (702, 29863), (725, 29800), (743, 29746), (762, 29662), (764, 29656), (766, 29644), (789, 29548), (810, 29494), (811, 29491), (820, 29467),

Gene: HunterDalle_26 Start: 21745, Stop: 23139, Start Num: 212

Candidate Starts for HunterDalle_26:

(Start: 212 @21745 has 74 MA's), (232, 21802), (269, 21889), (279, 21907), (280, 21910), (320, 21994), (385, 22027), (420, 22078), (422, 22084), (441, 22144), (462, 22174), (473, 22210), (477, 22228), (489, 22264), (495, 22285), (508, 22303), (510, 22309), (523, 22336), (577, 22417), (585, 22444), (593, 22468), (601, 22483), (612, 22510), (627, 22543), (633, 22558), (700, 22726), (708, 22753), (712, 22765), (721, 22783), (753, 22873), (755, 22879), (760, 22894), (761, 22897), (767, 22930), (782, 22990), (789, 23017), (809, 23074), (823, 23107), (834, 23131),

Gene: Huntingdon_29 Start: 22127, Stop: 23518, Start Num: 212

Candidate Starts for Huntingdon_29:

(Start: 212 @22127 has 74 MA's), (240, 22214), (279, 22286), (280, 22289), (306, 22355), (320, 22373), (323, 22379), (385, 22406), (422, 22463), (458, 22544), (462, 22553), (473, 22589), (477, 22607), (489, 22643), (495, 22664), (508, 22682), (523, 22715), (545, 22754), (577, 22796), (585, 22823), (593, 22847), (610, 22883), (612, 22889), (627, 22922), (633, 22937), (637, 22946), (659, 22991), (670, 23024), (671, 23027), (701, 23108), (712, 23144), (714, 23150), (721, 23162), (753, 23252), (760, 23273), (761, 23276), (766, 23300), (767, 23309), (789, 23396), (807, 23447), (823, 23486), (834, 23510),

Gene: IDyn_69 Start: 52448, Stop: 50367, Start Num: 36

Candidate Starts for IDyn_69:

(9, 52640), (11, 52622), (16, 52547), (Start: 36 @52448 has 34 MA's), (128, 52217), (189, 52079), (251, 51929), (273, 51896), (299, 51821), (303, 51815), (306, 51812), (355, 51722), (357, 51719), (Start: 387 @51659 has 1 MA's), (450, 51503), (495, 51356), (532, 51248), (542, 51224), (577, 51122), (594, 51068), (602, 51053), (641, 50972), (662, 50933), (687, 50870), (700, 50831), (702, 50825), (710, 50795), (753, 50678), (769, 50615), (783, 50552), (787, 50534), (819, 50450),

Gene: Ilzat_40 Start: 30819, Stop: 29431, Start Num: 370

Candidate Starts for Ilzat_40:

(120, 31470), (242, 31116), (274, 31041), (Start: 370 @30819 has 138 MA's), (419, 30675), (421, 30669), (422, 30666), (463, 30552), (474, 30525), (490, 30465), (499, 30438), (501, 30435), (538, 30339), (550, 30297), (594, 30126), (601, 30105), (606, 30090), (632, 30030), (670, 29970), (702, 29874), (725, 29811), (743, 29757), (762, 29673), (764, 29667), (766, 29655), (789, 29559), (810, 29505), (811, 29502), (820, 29478),

Gene: IndiRoo_33 Start: 21703, Stop: 23130, Start Num: 217

Candidate Starts for IndiRoo_33:

(202, 21682), (Start: 217 @21703 has 16 MA's), (420, 22057), (421, 22060), (427, 22081), (465, 22168), (478, 22210), (606, 22492), (612, 22504), (622, 22525), (633, 22552), (646, 22579), (648, 22582), (659, 22609), (661, 22615), (677, 22651), (708, 22750), (733, 22813), (744, 22834), (761, 22888), (767, 22921), (771, 22933), (781, 22972), (789, 23008), (791, 23014), (797, 23026), (807, 23059), (818, 23089),

Gene: Indlulamithi_65 Start: 45619, Stop: 47481, Start Num: 106

Candidate Starts for Indlulamithi_65:

(Start: 106 @45619 has 1 MA's), (113, 45634), (216, 45862), (236, 45922), (248, 45964), (270, 46000), (283, 46033), (287, 46051), (318, 46111), (330, 46129), (343, 46162), (363, 46201), (398, 46291), (406, 46312), (407, 46315), (420, 46336), (478, 46513), (505, 46582), (518, 46618), (529, 46639), (532, 46651), (553, 46717), (575, 46759), (577, 46765), (586, 46798), (591, 46813), (603, 46837), (604, 46840), (616, 46864), (623, 46873), (676, 46960), (718, 47065), (759, 47206), (783, 47314), (787, 47335), (794, 47350), (812, 47401), (841, 47458), (846, 47464), (851, 47476),

Gene: Intolerant_41 Start: 31037, Stop: 32431, Start Num: 218

Candidate Starts for Intolerant_41:

(Start: 218 @31037 has 13 MA's), (Start: 219 @31040 has 3 MA's), (239, 31115), (248, 31139), (272, 31169), (279, 31184), (329, 31274), (391, 31310), (441, 31409), (445, 31418), (476, 31487), (524, 31610), (591, 31745), (603, 31772), (612, 31793), (622, 31814), (648, 31871), (661, 31904), (664, 31913), (682, 31955), (701, 32021), (708, 32045), (714, 32063), (724, 32081), (744, 32135), (753, 32165), (767, 32222), (768, 32225), (781, 32273), (790, 32312), (797, 32327), (821, 32396), (829, 32414), (834, 32423),

Gene: Inventa_41 Start: 31114, Stop: 29726, Start Num: 370

Candidate Starts for Inventa_41:

(120, 31765), (242, 31411), (274, 31336), (Start: 370 @31114 has 138 MA's), (419, 30970), (421, 30964), (422, 30961), (463, 30847), (474, 30820), (490, 30760), (499, 30733), (501, 30730), (538, 30634), (550, 30592), (590, 30430), (594, 30421), (601, 30400), (606, 30385), (612, 30373), (632, 30325), (670, 30265), (702, 30169), (725, 30106), (743, 30052), (762, 29968), (764, 29962), (766, 29950), (789, 29854), (810, 29800), (811, 29797), (820, 29773),

Gene: loannes_41 Start: 31118, Stop: 29730, Start Num: 370

Candidate Starts for loannes_41:

(274, 31340), (Start: 370 @31118 has 138 MA's), (419, 30974), (421, 30968), (463, 30851), (474, 30824), (490, 30764), (499, 30737), (501, 30734), (537, 30641), (538, 30638), (550, 30596), (594, 30425), (601, 30404), (606, 30389), (612, 30377), (632, 30329), (670, 30269), (702, 30173), (725, 30110), (743, 30056), (762, 29972), (764, 29966), (766, 29954), (783, 29879), (789, 29858), (810, 29804), (811, 29801), (820, 29777),

Gene: lxel_41 Start: 29711, Stop: 28434, Start Num: 409

Candidate Starts for lxel_41:

(Start: 373 @29819 has 21 MA's), (Start: 409 @29711 has 1 MA's), (419, 29675), (422, 29666), (463, 29543), (473, 29522), (499, 29429), (501, 29426), (516, 29384), (536, 29336), (538, 29330), (550, 29288), (580, 29165), (594, 29117), (601, 29096), (612, 29069), (615, 29057), (617, 29054), (626, 29036), (670, 28961), (676, 28949), (702, 28865), (718, 28820), (747, 28730), (753, 28694), (756, 28685), (761, 28670), (762, 28664), (764, 28658), (766, 28646), (789, 28550), (805, 28511),

Gene: JDawG_39 Start: 25586, Stop: 27493, Start Num: 68

Candidate Starts for JDawG_39:

(17, 25412), (Start: 68 @25586 has 34 MA's), (96, 25649), (109, 25670), (128, 25724), (191, 25859), (216, 25901), (231, 25946), (298, 26120), (306, 26129), (355, 26219), (Start: 370 @26261 has 138 MA's), (378, 26276), (443, 26462), (490, 26597), (493, 26609), (510, 26642), (547, 26735), (577, 26771), (611, 26861), (626, 26888), (753, 27197), (754, 27200), (768, 27260), (788, 27350), (802, 27380), (815, 27422), (840, 27473),

Gene: JackieB_42 Start: 30731, Stop: 32125, Start Num: 218

Candidate Starts for JackieB_42:

(Start: 218 @30731 has 13 MA's), (Start: 219 @30734 has 3 MA's), (239, 30809), (248, 30833), (272, 30863), (273, 30866), (279, 30878), (329, 30968), (Start: 387 @30992 has 1 MA's), (420, 31037), (422, 31043), (441, 31103), (458, 31124), (475, 31178), (513, 31277), (524, 31304), (529, 31313), (591, 31439), (612, 31487), (622, 31508), (627, 31520), (633, 31535), (648, 31565), (661, 31598), (664, 31607), (682, 31649), (702, 31718), (708, 31739), (714, 31757), (724, 31775), (744, 31829), (753, 31859), (767, 31916), (768, 31919), (781, 31967), (797, 32021), (821, 32090), (829, 32108),

Gene: Jalebi_59 Start: 41637, Stop: 43553, Start Num: 55

Candidate Starts for Jalebi_59:

(Start: 55 @41637 has 13 MA's), (Start: 56 @41640 has 54 MA's), (Start: 70 @41652 has 16 MA's), (86, 41700), (132, 41802), (171, 41892), (184, 41919), (188, 41928), (226, 42000), (273, 42120), (295, 42183), (350, 42273), (361, 42300), (420, 42429), (427, 42453), (441, 42495), (460, 42543), (465, 42564), (473, 42585), (490, 42642), (511, 42696), (529, 42738), (549, 42798), (586, 42894), (587, 42897), (685, 43074), (708, 43125), (742, 43212), (743, 43215), (753, 43251), (755, 43257), (768, 43311), (779, 43350), (808, 43452), (813, 43467), (822, 43488),

Gene: Jamemuya19_59 Start: 39419, Stop: 41335, Start Num: 55

Candidate Starts for Jamemuya19_59:

(Start: 55 @39419 has 13 MA's), (Start: 56 @39422 has 54 MA's), (Start: 70 @39434 has 16 MA's), (86, 39482), (105, 39515), (171, 39674), (184, 39701), (188, 39710), (226, 39782), (273, 39902), (295, 39965), (350, 40055), (361, 40082), (420, 40211), (427, 40235), (441, 40277), (446, 40289), (455,

40304), (460, 40325), (465, 40346), (473, 40367), (490, 40424), (495, 40442), (511, 40478), (529, 40520), (549, 40580), (586, 40676), (587, 40679), (685, 40856), (708, 40907), (743, 40997), (753, 41033), (755, 41039), (768, 41093), (779, 41132), (808, 41234), (813, 41249), (822, 41270),

Gene: Jams_57 Start: 52059, Stop: 50647, Start Num: 227

Candidate Starts for Jams_57:

(72, 52407), (123, 52278), (Start: 158 @52188 has 3 MA's), (Start: 227 @52059 has 28 MA's), (239, 52014), (272, 51924), (273, 51921), (276, 51915), (283, 51894), (317, 51831), (394, 51753), (406, 51723), (421, 51705), (462, 51618), (465, 51603), (478, 51561), (511, 51480), (532, 51432), (548, 51390), (574, 51372), (575, 51369), (583, 51342), (602, 51291), (624, 51255), (646, 51204), (684, 51120), (690, 51099), (761, 50943), (762, 50937), (765, 50925), (797, 50799), (845, 50685),

Gene: Janus167_40 Start: 30803, Stop: 29415, Start Num: 370

Candidate Starts for Janus167_40:

(274, 31025), (Start: 370 @30803 has 138 MA's), (419, 30659), (421, 30653), (422, 30650), (463, 30536), (474, 30509), (490, 30449), (499, 30422), (501, 30419), (538, 30323), (550, 30281), (594, 30110), (601, 30089), (606, 30074), (612, 30062), (632, 30014), (670, 29954), (702, 29858), (725, 29795), (743, 29741), (762, 29657), (764, 29651), (766, 29639), (789, 29543), (810, 29489), (811, 29486), (820, 29462),

Gene: JasonD_43 Start: 31699, Stop: 30293, Start Num: 370

Candidate Starts for JasonD_43:

(283, 31888), (326, 31798), (328, 31795), (Start: 370 @31699 has 138 MA's), (419, 31552), (421, 31546), (441, 31483), (463, 31429), (474, 31402), (490, 31342), (499, 31315), (501, 31312), (538, 31216), (550, 31174), (590, 31012), (594, 31003), (601, 30982), (603, 30976), (606, 30967), (635, 30904), (658, 30883), (670, 30847), (680, 30823), (703, 30748), (718, 30706), (762, 30550), (764, 30544), (766, 30532), (789, 30436), (802, 30409), (810, 30382),

Gene: JasperRussell_40 Start: 30803, Stop: 29415, Start Num: 370

Candidate Starts for JasperRussell_40:

(242, 31100), (274, 31025), (Start: 370 @30803 has 138 MA's), (419, 30659), (421, 30653), (422, 30650), (463, 30536), (474, 30509), (490, 30449), (499, 30422), (501, 30419), (538, 30323), (550, 30281), (594, 30110), (601, 30089), (606, 30074), (632, 30014), (670, 29954), (702, 29858), (725, 29795), (743, 29741), (762, 29657), (764, 29651), (766, 29639), (789, 29543), (810, 29489), (811, 29486), (820, 29462),

Gene: Jellybones_61 Start: 53432, Stop: 51900, Start Num: 176

Candidate Starts for Jellybones_61:

(72, 53687), (89, 53636), (123, 53558), (133, 53531), (145, 53501), (Start: 158 @53468 has 3 MA's), (164, 53459), (Start: 176 @53432 has 28 MA's), (229, 53300), (239, 53264), (251, 53222), (259, 53204), (272, 53174), (277, 53162), (283, 53144), (306, 53096), (462, 52868), (465, 52853), (470, 52841), (478, 52811), (494, 52760), (532, 52682), (544, 52658), (548, 52640), (574, 52622), (575, 52619), (578, 52610), (583, 52592), (599, 52550), (624, 52505), (631, 52487), (684, 52370), (688, 52355), (694, 52334), (733, 52277), (743, 52253), (744, 52250), (761, 52193), (762, 52187), (765, 52175), (777, 52124), (782, 52100), (791, 52061), (797, 52049), (798, 52046), (837, 51953), (845, 51938), (855, 51917),

Gene: Jemerald_42 Start: 31717, Stop: 30299, Start Num: 373

Candidate Starts for Jemerald_42:

(Start: 373 @31717 has 21 MA's), (Start: 376 @31711 has 23 MA's), (419, 31573), (437, 31510), (463, 31450), (473, 31429), (496, 31342), (499, 31336), (501, 31333), (509, 31312), (527, 31267), (536, 31243), (538, 31237), (550, 31195), (583, 31057), (594, 31024), (602, 31000), (632, 30928), (645, 30901), (661, 30853), (670, 30826), (698, 30739), (702, 30730), (737, 30631), (753, 30559), (756,

30550), (761, 30535), (762, 30529), (789, 30415), (805, 30376), (807, 30370), (820, 30334), (822, 30331),

Gene: Jenos_44 Start: 32344, Stop: 30941, Start Num: 373

Candidate Starts for Jenos_44:

(259, 32587), (263, 32578), (283, 32527), (288, 32506), (326, 32437), (Start: 373 @32344 has 21 MA's), (419, 32200), (421, 32194), (441, 32131), (463, 32077), (474, 32050), (490, 31990), (499, 31963), (501, 31960), (538, 31864), (550, 31822), (590, 31660), (594, 31651), (601, 31630), (612, 31603), (635, 31552), (670, 31495), (689, 31441), (702, 31399), (718, 31354), (755, 31222), (762, 31198), (764, 31192), (766, 31180), (789, 31084), (802, 31057), (810, 31030), (837, 30973),

Gene: Jera_34 Start: 22504, Stop: 23931, Start Num: 217

Candidate Starts for Jera_34:

(191, 22462), (Start: 217 @22504 has 16 MA's), (397, 22822), (465, 22969), (473, 22990), (475, 22999), (591, 23257), (612, 23305), (622, 23326), (648, 23383), (661, 23416), (677, 23452), (702, 23530), (708, 23551), (743, 23632), (744, 23635), (767, 23722), (771, 23734), (781, 23773), (789, 23809), (791, 23815), (797, 23827), (818, 23890),

Gene: Jerbirus_42 Start: 30803, Stop: 29415, Start Num: 370

Candidate Starts for Jerbirus_42:

(120, 31454), (242, 31100), (274, 31025), (Start: 370 @30803 has 138 MA's), (419, 30659), (421, 30653), (422, 30650), (463, 30536), (474, 30509), (490, 30449), (499, 30422), (501, 30419), (538, 30323), (550, 30281), (594, 30110), (601, 30089), (606, 30074), (632, 30014), (670, 29954), (702, 29858), (725, 29795), (743, 29741), (762, 29657), (764, 29651), (766, 29639), (789, 29543), (810, 29489), (811, 29486), (820, 29462),

Gene: JeriBeth_42 Start: 30666, Stop: 29278, Start Num: 370

Candidate Starts for JeriBeth_42:

(274, 30888), (Start: 370 @30666 has 138 MA's), (419, 30522), (421, 30516), (422, 30513), (463, 30399), (474, 30372), (490, 30312), (499, 30285), (501, 30282), (538, 30186), (550, 30144), (594, 29973), (601, 29952), (606, 29937), (632, 29877), (670, 29817), (702, 29721), (725, 29658), (743, 29604), (762, 29520), (764, 29514), (766, 29502), (789, 29406), (810, 29352), (811, 29349), (820, 29325),

Gene: Jifall16_71 Start: 56412, Stop: 54346, Start Num: 36

Candidate Starts for Jifall16_71:

(2, 56910), (5, 56709), (8, 56616), (9, 56604), (11, 56586), (Start: 36 @56412 has 34 MA's), (Start: 87 @56274 has 2 MA's), (Start: 98 @56250 has 3 MA's), (188, 56046), (213, 56001), (251, 55893), (303, 55779), (306, 55776), (355, 55686), (357, 55683), (Start: 387 @55623 has 1 MA's), (441, 55485), (450, 55467), (458, 55443), (495, 55320), (532, 55215), (577, 55089), (594, 55035), (660, 54909), (662, 54900), (671, 54876), (700, 54804), (702, 54798), (710, 54768), (733, 54711), (753, 54651), (769, 54588), (787, 54507),

Gene: JingleBells_40 Start: 25290, Stop: 27197, Start Num: 68

Candidate Starts for JingleBells_40:

(17, 25116), (Start: 68 @25290 has 34 MA's), (96, 25353), (109, 25374), (128, 25428), (157, 25491), (191, 25563), (216, 25605), (231, 25650), (298, 25824), (306, 25833), (355, 25923), (Start: 370 @25965 has 138 MA's), (378, 25980), (443, 26166), (490, 26301), (493, 26313), (510, 26346), (577, 26475), (626, 26592), (753, 26901), (754, 26904), (768, 26964), (788, 27054), (802, 27084), (815, 27126), (840, 27177),

Gene: Jingles_39 Start: 30570, Stop: 29173, Start Num: 366

Candidate Starts for Jingles_39:

(294, 30717), (321, 30672), (337, 30642), (Start: 366 @30570 has 2 MA's), (Start: 372 @30558 has 8 MA's), (Start: 376 @30552 has 23 MA's), (385, 30522), (419, 30414), (421, 30408), (422, 30405), (426, 30390), (486, 30213), (490, 30204), (492, 30195), (501, 30174), (516, 30132), (538, 30078), (594, 29865), (601, 29844), (606, 29829), (612, 29817), (617, 29802), (635, 29766), (640, 29757), (658, 29742), (670, 29706), (702, 29607), (725, 29544), (734, 29517), (751, 29442), (753, 29436), (756, 29427), (761, 29412), (762, 29406), (764, 29400), (766, 29388), (802, 29265), (805, 29253),

Gene: Joann_29 Start: 22094, Stop: 23485, Start Num: 212

Candidate Starts for Joann_29:

(Start: 212 @22094 has 74 MA's), (240, 22181), (279, 22253), (280, 22256), (306, 22322), (320, 22340), (385, 22373), (422, 22430), (435, 22481), (440, 22487), (441, 22490), (462, 22520), (473, 22556), (477, 22574), (489, 22610), (495, 22631), (508, 22649), (523, 22682), (545, 22721), (577, 22763), (585, 22790), (593, 22814), (610, 22850), (612, 22856), (627, 22889), (633, 22904), (637, 22913), (659, 22958), (666, 22979), (670, 22991), (701, 23075), (708, 23099), (712, 23111), (714, 23117), (721, 23129), (753, 23219), (755, 23225), (760, 23240), (761, 23243), (766, 23267), (767, 23276), (789, 23363), (823, 23453), (834, 23477),

Gene: Johann_34 Start: 23371, Stop: 24798, Start Num: 217

Candidate Starts for Johann_34:

(Start: 217 @23371 has 16 MA's), (299, 23587), (397, 23689), (421, 23728), (441, 23791), (465, 23836), (473, 23857), (510, 23956), (591, 24124), (612, 24172), (622, 24193), (633, 24220), (646, 24247), (659, 24277), (661, 24283), (677, 24319), (702, 24397), (733, 24481), (743, 24499), (744, 24502), (767, 24589), (771, 24601), (781, 24640), (789, 24676), (791, 24682), (809, 24733), (818, 24757),

Gene: John316_62 Start: 53495, Stop: 51963, Start Num: 176

Candidate Starts for John316_62:

(72, 53750), (89, 53699), (114, 53648), (133, 53594), (145, 53564), (Start: 158 @53531 has 3 MA's), (164, 53522), (Start: 176 @53495 has 28 MA's), (239, 53327), (251, 53285), (272, 53237), (277, 53225), (282, 53213), (283, 53207), (288, 53186), (306, 53159), (462, 52931), (465, 52916), (470, 52904), (478, 52874), (494, 52823), (510, 52796), (532, 52745), (548, 52703), (574, 52685), (575, 52682), (583, 52655), (599, 52613), (624, 52568), (684, 52433), (688, 52418), (694, 52397), (743, 52316), (744, 52313), (761, 52256), (762, 52250), (764, 52244), (765, 52238), (782, 52163), (791, 52124), (797, 52112), (798, 52109), (837, 52016), (845, 52001), (855, 51980),

Gene: Jormungandr_57 Start: 52602, Stop: 51190, Start Num: 227

Candidate Starts for Jormungandr_57:

(72, 52950), (123, 52821), (Start: 158 @52731 has 3 MA's), (Start: 227 @52602 has 28 MA's), (239, 52557), (272, 52467), (273, 52464), (276, 52458), (283, 52437), (317, 52374), (406, 52266), (421, 52248), (462, 52161), (465, 52146), (478, 52104), (511, 52023), (532, 51975), (548, 51933), (574, 51915), (575, 51912), (583, 51885), (602, 51834), (624, 51798), (646, 51747), (684, 51663), (690, 51642), (761, 51486), (762, 51480), (765, 51468), (797, 51342), (845, 51228),

Gene: Juanyo_39 Start: 30553, Stop: 29183, Start Num: 376

Candidate Starts for Juanyo_39:

(Start: 372 @30556 has 8 MA's), (Start: 376 @30553 has 23 MA's), (Start: 409 @30451 has 1 MA's), (463, 30292), (474, 30265), (490, 30205), (499, 30178), (501, 30175), (531, 30094), (538, 30079), (576, 29923), (594, 29866), (601, 29845), (603, 29839), (606, 29830), (615, 29806), (626, 29785), (632, 29770), (647, 29746), (670, 29710), (689, 29656), (725, 29551), (731, 29539), (739, 29512), (747, 29479), (753, 29443), (756, 29434), (761, 29419), (762, 29413), (764, 29407), (766, 29395), (789, 29299), (794, 29290), (802, 29272), (805, 29260), (820, 29218), (833, 29191),

Gene: Juicer_42 Start: 31717, Stop: 30299, Start Num: 373

Candidate Starts for Juicer_42:

(Start: 373 @31717 has 21 MA's), (Start: 376 @31711 has 23 MA's), (419, 31573), (437, 31510), (463, 31450), (473, 31429), (496, 31342), (499, 31336), (501, 31333), (509, 31312), (527, 31267), (536, 31243), (538, 31237), (550, 31195), (583, 31057), (594, 31024), (602, 31000), (632, 30928), (645, 30901), (661, 30853), (670, 30826), (698, 30739), (702, 30730), (737, 30631), (753, 30559), (756, 30550), (761, 30535), (762, 30529), (789, 30415), (805, 30376), (807, 30370), (820, 30334), (822, 30331),

Gene: Jumbo_57 Start: 53259, Stop: 51742, Start Num: 194

Candidate Starts for Jumbo_57:

(Start: 194 @53259 has 3 MA's), (232, 53163), (236, 53151), (239, 53136), (293, 53004), (308, 52980), (309, 52977), (331, 52944), (420, 52839), (426, 52818), (461, 52746), (477, 52689), (517, 52587), (532, 52557), (577, 52488), (619, 52395), (628, 52380), (645, 52344), (661, 52311), (671, 52281), (682, 52260), (694, 52218), (697, 52206), (730, 52131), (765, 52014), (772, 51981), (782, 51939), (802, 51873), (849, 51774), (850, 51771),

Gene: Jumboset_29 Start: 22100, Stop: 23500, Start Num: 212

Candidate Starts for Jumboset_29:

(Start: 212 @22100 has 74 MA's), (232, 22163), (279, 22268), (280, 22271), (320, 22355), (385, 22388), (420, 22439), (422, 22445), (458, 22526), (459, 22529), (462, 22535), (473, 22571), (477, 22589), (478, 22592), (495, 22646), (523, 22697), (577, 22778), (585, 22805), (596, 22835), (601, 22844), (612, 22871), (627, 22904), (633, 22919), (659, 22973), (666, 22994), (670, 23006), (678, 23018), (755, 23240), (758, 23249), (760, 23255), (767, 23291), (782, 23351), (789, 23378), (823, 23468),

Gene: KSunshine22_95 Start: 77618, Stop: 79462, Start Num: 63

Candidate Starts for KSunshine22_95:

(Start: 63 @77618 has 11 MA's), (181, 77891), (239, 77999), (269, 78065), (292, 78134), (296, 78143), (385, 78218), (478, 78527), (492, 78572), (517, 78632), (536, 78677), (575, 78734), (577, 78740), (586, 78773), (590, 78785), (595, 78797), (665, 78914), (667, 78920), (691, 78983), (704, 79022), (710, 79043), (744, 79127), (769, 79220), (775, 79244), (829, 79412), (831, 79415),

Gene: Kabluna_75 Start: 55961, Stop: 53874, Start Num: 36

Candidate Starts for Kabluna_75:

(Start: 36 @55961 has 34 MA's), (79, 55841), (Start: 100 @55796 has 1 MA's), (103, 55793), (213, 55538), (251, 55430), (282, 55376), (306, 55313), (355, 55223), (357, 55220), (364, 55196), (Start: 387 @55160 has 1 MA's), (441, 55022), (450, 55004), (455, 54995), (458, 54980), (495, 54857), (521, 54773), (532, 54746), (542, 54722), (577, 54623), (594, 54569), (623, 54515), (641, 54473), (662, 54434), (689, 54365), (700, 54332), (710, 54296), (731, 54251), (733, 54239), (753, 54179), (769, 54116), (819, 53951), (831, 53927),

Gene: Kale_40 Start: 30818, Stop: 29430, Start Num: 370

Candidate Starts for Kale_40:

(274, 31040), (Start: 370 @30818 has 138 MA's), (419, 30674), (421, 30668), (422, 30665), (463, 30551), (474, 30524), (490, 30464), (499, 30437), (501, 30434), (538, 30338), (550, 30296), (594, 30125), (601, 30104), (606, 30089), (632, 30029), (670, 29969), (702, 29873), (725, 29810), (743, 29756), (762, 29672), (764, 29666), (766, 29654), (783, 29579), (789, 29558), (810, 29504), (811, 29501), (820, 29477),

Gene: Kalizoi_29 Start: 22099, Stop: 23499, Start Num: 212

Candidate Starts for Kalizoi_29:

(Start: 212 @22099 has 74 MA's), (232, 22162), (279, 22267), (280, 22270), (320, 22354), (385, 22387), (420, 22438), (422, 22444), (458, 22525), (459, 22528), (462, 22534), (473, 22570), (477,

22588), (478, 22591), (495, 22645), (523, 22696), (577, 22777), (585, 22804), (596, 22834), (601, 22843), (612, 22870), (627, 22903), (633, 22918), (659, 22972), (666, 22993), (670, 23005), (678, 23017), (755, 23239), (758, 23248), (760, 23254), (767, 23290), (782, 23350), (789, 23377), (823, 23467), (834, 23491), (835, 23494),

Gene: Kampe_58 Start: 50421, Stop: 48931, Start Num: 192

Candidate Starts for Kampe_58:

(Start: 192 @50421 has 5 MA's), (229, 50328), (232, 50319), (236, 50307), (239, 50292), (243, 50274), (273, 50217), (299, 50145), (301, 50142), (386, 50049), (399, 50016), (419, 49983), (420, 49980), (426, 49959), (462, 49890), (473, 49854), (504, 49767), (532, 49704), (534, 49701), (547, 49671), (587, 49599), (590, 49590), (661, 49467), (662, 49461), (730, 49329), (744, 49287), (757, 49242), (765, 49212), (849, 48960),

Gene: KandZ_52 Start: 39857, Stop: 41800, Start Num: 56

Candidate Starts for KandZ_52:

(38, 39794), (Start: 56 @39857 has 54 MA's), (74, 39884), (Start: 106 @39956 has 1 MA's), (127, 40010), (151, 40070), (163, 40097), (187, 40148), (208, 40190), (226, 40226), (251, 40313), (291, 40406), (299, 40421), (313, 40442), (Start: 370 @40544 has 138 MA's), (385, 40577), (394, 40601), (422, 40661), (455, 40748), (476, 40823), (511, 40913), (532, 40964), (534, 40967), (569, 41057), (577, 41075), (586, 41108), (616, 41174), (626, 41192), (662, 41255), (700, 41339), (743, 41456), (753, 41504), (769, 41567), (787, 41651),

Gene: KannH_40 Start: 30803, Stop: 29415, Start Num: 370

Candidate Starts for KannH_40:

(120, 31454), (242, 31100), (274, 31025), (Start: 370 @30803 has 138 MA's), (419, 30659), (421, 30653), (422, 30650), (463, 30536), (474, 30509), (490, 30449), (499, 30422), (501, 30419), (538, 30323), (550, 30281), (594, 30110), (601, 30089), (606, 30074), (632, 30014), (670, 29954), (702, 29858), (725, 29795), (743, 29741), (762, 29657), (764, 29651), (766, 29639), (789, 29543), (810, 29489), (811, 29486), (820, 29462),

Gene: Karate_39 Start: 25940, Stop: 27847, Start Num: 68

Candidate Starts for Karate_39:

(17, 25766), (Start: 68 @25940 has 34 MA's), (96, 26003), (109, 26024), (128, 26078), (207, 26240), (216, 26255), (231, 26300), (298, 26474), (306, 26483), (355, 26573), (357, 26576), (378, 26630), (443, 26816), (490, 26951), (493, 26963), (577, 27125), (626, 27242), (754, 27554), (768, 27614), (788, 27704), (802, 27734), (815, 27776), (840, 27827),

Gene: Kaseim_57 Start: 52044, Stop: 50632, Start Num: 227

Candidate Starts for Kaseim_57:

(72, 52392), (123, 52263), (Start: 158 @52173 has 3 MA's), (Start: 174 @52137 has 1 MA's), (Start: 227 @52044 has 28 MA's), (239, 51999), (272, 51909), (273, 51906), (276, 51900), (283, 51879), (317, 51816), (406, 51708), (421, 51690), (462, 51603), (465, 51588), (478, 51546), (511, 51465), (532, 51417), (548, 51375), (574, 51357), (575, 51354), (583, 51327), (602, 51276), (624, 51240), (646, 51189), (684, 51105), (690, 51084), (761, 50928), (762, 50922), (765, 50910), (797, 50784), (845, 50670),

Gene: KatChan_42 Start: 30536, Stop: 29130, Start Num: 373

Candidate Starts for KatChan_42:

(Start: 373 @30536 has 21 MA's), (383, 30506), (420, 30389), (421, 30386), (422, 30383), (441, 30323), (451, 30302), (463, 30260), (474, 30233), (499, 30146), (501, 30143), (516, 30101), (536, 30050), (576, 29888), (594, 29831), (615, 29771), (621, 29762), (626, 29750), (658, 29711), (667, 29684), (668, 29681), (670, 29675), (698, 29588), (703, 29576), (753, 29408), (756, 29399), (761, 29384), (762, 29378), (764, 29372), (766, 29360), (802, 29237), (809, 29213), (820, 29183),

Gene: Kate_41 Start: 25943, Stop: 27850, Start Num: 68

Candidate Starts for Kate_41:

(Start: 68 @25943 has 34 MA's), (96, 26006), (109, 26027), (128, 26081), (216, 26258), (231, 26303), (298, 26477), (306, 26486), (355, 26576), (378, 26633), (443, 26819), (490, 26954), (493, 26966), (510, 26999), (577, 27128), (626, 27245), (676, 27320), (753, 27554), (754, 27557), (768, 27617), (788, 27707), (802, 27737), (815, 27779), (840, 27830),

Gene: Katyusha_57 Start: 53319, Stop: 51616, Start Num: 95

Candidate Starts for Katyusha_57:

(Start: 95 @53319 has 9 MA's), (Start: 99 @53307 has 2 MA's), (178, 53124), (Start: 227 @53034 has 28 MA's), (229, 53025), (239, 52989), (243, 52965), (248, 52956), (251, 52947), (272, 52899), (282, 52875), (317, 52803), (320, 52800), (331, 52782), (388, 52743), (441, 52614), (465, 52575), (466, 52572), (473, 52554), (475, 52545), (478, 52533), (493, 52485), (511, 52452), (532, 52404), (544, 52380), (583, 52314), (624, 52215), (668, 52116), (671, 52107), (683, 52083), (684, 52080), (733, 51987), (743, 51963), (744, 51960), (761, 51903), (765, 51885), (791, 51768), (792, 51765), (798, 51753), (845, 51654), (855, 51633),

Gene: Kauala_39 Start: 30568, Stop: 29171, Start Num: 366

Candidate Starts for Kauala_39:

(272, 30784), (294, 30715), (301, 30700), (337, 30640), (Start: 366 @30568 has 2 MA's), (Start: 372 @30556 has 8 MA's), (Start: 376 @30550 has 23 MA's), (385, 30520), (419, 30412), (421, 30406), (422, 30403), (426, 30388), (490, 30202), (501, 30172), (516, 30130), (538, 30076), (548, 30043), (594, 29863), (601, 29842), (606, 29827), (612, 29815), (615, 29803), (617, 29800), (635, 29764), (658, 29740), (664, 29722), (670, 29704), (725, 29542), (743, 29488), (751, 29440), (753, 29434), (756, 29425), (761, 29410), (762, 29404), (764, 29398), (766, 29386), (802, 29263), (805, 29251),

Gene: Kavo_39 Start: 29315, Stop: 27930, Start Num: 368

Candidate Starts for Kavo_39:

(Start: 368 @29315 has 1 MA's), (419, 29171), (441, 29102), (463, 29039), (469, 29030), (473, 29018), (499, 28925), (501, 28922), (509, 28901), (516, 28880), (550, 28784), (594, 28613), (602, 28589), (606, 28577), (612, 28565), (615, 28553), (617, 28550), (626, 28532), (632, 28517), (670, 28457), (676, 28445), (680, 28433), (702, 28361), (710, 28331), (725, 28298), (753, 28190), (756, 28181), (761, 28166), (762, 28160), (764, 28154), (766, 28142), (789, 28046), (794, 28037), (805, 28007), (820, 27965),

Gene: KellyGreen_42 Start: 30800, Stop: 29412, Start Num: 370

Candidate Starts for KellyGreen_42:

(274, 31022), (Start: 370 @30800 has 138 MA's), (419, 30656), (421, 30650), (422, 30647), (463, 30533), (474, 30506), (490, 30446), (499, 30419), (501, 30416), (538, 30320), (550, 30278), (594, 30107), (601, 30086), (606, 30071), (612, 30059), (632, 30011), (670, 29951), (702, 29855), (725, 29792), (743, 29738), (762, 29654), (764, 29648), (766, 29636), (783, 29561), (789, 29540), (810, 29486), (811, 29483), (820, 29459),

Gene: Kelzog_61 Start: 52344, Stop: 50812, Start Num: 176

Candidate Starts for Kelzog_61:

(72, 52599), (89, 52548), (114, 52497), (133, 52443), (145, 52413), (Start: 158 @52380 has 3 MA's), (164, 52371), (Start: 176 @52344 has 28 MA's), (239, 52176), (251, 52134), (272, 52086), (277, 52074), (282, 52062), (283, 52056), (288, 52035), (306, 52008), (421, 51867), (462, 51780), (465, 51765), (470, 51753), (478, 51723), (494, 51672), (510, 51645), (532, 51594), (574, 51534), (575, 51531), (583, 51504), (599, 51462), (624, 51417), (631, 51399), (684, 51282), (688, 51267), (694, 51246), (733, 51189), (743, 51165), (761, 51105), (762, 51099), (764, 51093), (765, 51087), (777, 51036), (782, 51012), (791, 50973), (797, 50961), (798, 50958), (837, 50865), (845, 50850), (855,

50829),

Gene: Kharcho_61 Start: 33998, Stop: 35899, Start Num: 41

Candidate Starts for Kharcho_61:

(18, 33905), (Start: 41 @33998 has 2 MA's), (73, 34085), (92, 34139), (117, 34190), (134, 34238), (142, 34262), (201, 34388), (206, 34397), (272, 34583), (286, 34625), (401, 34772), (410, 34793), (433, 34850), (444, 34874), (466, 34916), (477, 34952), (535, 35090), (589, 35192), (652, 35318), (662, 35342), (681, 35384), (778, 35669), (795, 35732), (805, 35762), (843, 35843), (850, 35858),

Gene: KidneyBean_72 Start: 56536, Stop: 54470, Start Num: 36

Candidate Starts for KidneyBean_72:

(2, 57034), (5, 56833), (8, 56740), (9, 56728), (11, 56710), (Start: 36 @56536 has 34 MA's), (Start: 87 @56398 has 2 MA's), (Start: 98 @56374 has 3 MA's), (188, 56170), (213, 56125), (251, 56017), (303, 55903), (306, 55900), (355, 55810), (357, 55807), (Start: 387 @55747 has 1 MA's), (441, 55609), (450, 55591), (458, 55567), (495, 55444), (532, 55339), (577, 55213), (594, 55159), (660, 55033), (662, 55024), (671, 55000), (700, 54928), (702, 54922), (710, 54892), (733, 54835), (753, 54775), (769, 54712), (787, 54631),

Gene: Kimchi1738_73 Start: 52700, Stop: 50775, Start Num: 69

Candidate Starts for Kimchi1738_73:

(Start: 33 @52793 has 1 MA's), (Start: 69 @52700 has 8 MA's), (144, 52529), (167, 52475), (251, 52271), (331, 52115), (355, 52064), (357, 52061), (379, 52019), (446, 51857), (451, 51848), (577, 51491), (586, 51458), (676, 51272), (733, 51119), (755, 51053), (759, 51041), (764, 51023), (769, 50996), (783, 50933), (794, 50900), (820, 50828),

Gene: KingBob_26 Start: 21732, Stop: 23129, Start Num: 212

Candidate Starts for KingBob_26:

(Start: 212 @21732 has 74 MA's), (232, 21792), (269, 21879), (279, 21897), (280, 21900), (320, 21984), (323, 21990), (385, 22017), (420, 22068), (422, 22074), (435, 22125), (441, 22134), (458, 22155), (462, 22164), (473, 22200), (478, 22221), (489, 22254), (495, 22275), (508, 22293), (510, 22299), (523, 22326), (531, 22338), (537, 22353), (577, 22407), (593, 22458), (596, 22464), (601, 22473), (603, 22479), (612, 22500), (627, 22533), (633, 22548), (637, 22557), (690, 22680), (701, 22719), (708, 22743), (712, 22755), (753, 22863), (755, 22869), (758, 22878), (760, 22884), (767, 22920), (789, 23007), (823, 23097), (834, 23121),

Gene: KingJulien_40 Start: 31269, Stop: 29878, Start Num: 370

Candidate Starts for KingJulien_40:

(241, 31557), (247, 31536), (Start: 370 @31269 has 138 MA's), (419, 31122), (421, 31116), (422, 31113), (441, 31053), (463, 30999), (474, 30972), (490, 30912), (499, 30885), (501, 30882), (538, 30786), (550, 30744), (594, 30573), (601, 30552), (670, 30417), (702, 30321), (743, 30204), (747, 30186), (762, 30120), (764, 30114), (766, 30102), (789, 30006), (810, 29952), (811, 29949), (820, 29925), (836, 29895),

Gene: Kittykat_25 Start: 20600, Stop: 21994, Start Num: 212

Candidate Starts for Kittykat_25:

(Start: 212 @20600 has 74 MA's), (232, 20657), (279, 20762), (280, 20765), (320, 20849), (385, 20882), (421, 20936), (422, 20939), (462, 21029), (473, 21065), (478, 21086), (489, 21119), (495, 21140), (577, 21272), (585, 21299), (601, 21338), (612, 21365), (627, 21398), (633, 21413), (637, 21422), (659, 21467), (671, 21503), (701, 21584), (708, 21608), (714, 21626), (721, 21638), (744, 21698), (749, 21722), (753, 21728), (754, 21731), (760, 21749), (761, 21752), (766, 21776), (767, 21785), (789, 21872), (807, 21923), (823, 21962),

Gene: Klimt_41 Start: 30834, Stop: 29413, Start Num: 370

Candidate Starts for Klimt_41:

(274, 31056), (Start: 370 @30834 has 138 MA's), (419, 30690), (421, 30684), (422, 30681), (463, 30567), (474, 30540), (490, 30480), (499, 30453), (501, 30450), (538, 30354), (550, 30312), (590, 30150), (594, 30141), (601, 30120), (612, 30093), (626, 30060), (632, 30045), (664, 29970), (670, 29952), (702, 29856), (725, 29793), (743, 29739), (762, 29655), (764, 29649), (766, 29637), (783, 29562), (789, 29541), (810, 29487), (811, 29484), (820, 29460),

Gene: Knox_41 Start: 31118, Stop: 29730, Start Num: 370

Candidate Starts for Knox_41:

(120, 31769), (242, 31415), (274, 31340), (Start: 370 @31118 has 138 MA's), (419, 30974), (421, 30968), (422, 30965), (463, 30851), (474, 30824), (490, 30764), (499, 30737), (501, 30734), (538, 30638), (550, 30596), (594, 30425), (601, 30404), (612, 30377), (632, 30329), (670, 30269), (725, 30110), (743, 30056), (762, 29972), (764, 29966), (766, 29954), (789, 29858), (810, 29804), (811, 29801), (820, 29777),

Gene: Koji_39 Start: 30726, Stop: 29332, Start Num: 372

Candidate Starts for Koji_39:

(294, 30885), (321, 30840), (337, 30810), (360, 30756), (Start: 366 @30738 has 2 MA's), (Start: 372 @30726 has 8 MA's), (Start: 376 @30720 has 23 MA's), (385, 30690), (419, 30582), (421, 30576), (422, 30573), (426, 30558), (490, 30372), (492, 30363), (501, 30342), (516, 30300), (538, 30246), (594, 30033), (601, 30012), (606, 29997), (612, 29985), (617, 29970), (635, 29934), (658, 29910), (670, 29874), (673, 29868), (702, 29775), (725, 29712), (734, 29685), (751, 29610), (753, 29604), (756, 29595), (761, 29580), (762, 29574), (764, 29568), (766, 29556), (802, 29433), (805, 29421), (837, 29346),

Gene: Konstantine_65 Start: 46884, Stop: 48941, Start Num: 56

Candidate Starts for Konstantine_65:

(Start: 56 @46884 has 54 MA's), (84, 46944), (85, 46947), (Start: 126 @47040 has 3 MA's), (130, 47052), (138, 47073), (191, 47196), (193, 47199), (197, 47208), (216, 47241), (222, 47262), (229, 47310), (240, 47352), (273, 47415), (282, 47436), (283, 47442), (303, 47496), (398, 47682), (403, 47694), (410, 47712), (420, 47727), (422, 47733), (532, 48051), (534, 48054), (549, 48099), (573, 48150), (577, 48162), (610, 48252), (616, 48264), (632, 48297), (649, 48321), (653, 48330), (702, 48420), (712, 48453), (752, 48564), (753, 48567), (754, 48570), (755, 48573), (768, 48627), (783, 48693), (787, 48711), (857, 48888),

Gene: Korra_30 Start: 22105, Stop: 23505, Start Num: 212

Candidate Starts for Korra_30:

(Start: 212 @22105 has 74 MA's), (232, 22168), (279, 22273), (280, 22276), (320, 22360), (385, 22393), (420, 22444), (422, 22450), (458, 22531), (459, 22534), (462, 22540), (473, 22576), (477, 22594), (478, 22597), (489, 22630), (495, 22651), (523, 22702), (577, 22783), (585, 22810), (596, 22840), (601, 22849), (612, 22876), (627, 22909), (633, 22924), (659, 22978), (666, 22999), (670, 23011), (678, 23023), (714, 23137), (755, 23245), (758, 23254), (760, 23260), (767, 23296), (782, 23356), (789, 23383), (823, 23473),

Gene: Kors_42 Start: 26688, Stop: 28622, Start Num: 70

Candidate Starts for Kors_42:

(14, 26448), (Start: 33 @26592 has 1 MA's), (66, 26682), (Start: 70 @26688 has 16 MA's), (128, 26835), (135, 26853), (138, 26862), (216, 27012), (259, 27138), (298, 27228), (306, 27237), (348, 27312), (355, 27327), (Start: 370 @27369 has 138 MA's), (382, 27399), (427, 27531), (493, 27717), (502, 27735), (510, 27750), (532, 27807), (573, 27867), (599, 27939), (667, 28077), (692, 28143), (701, 28173), (731, 28251), (754, 28329), (768, 28389), (788, 28479), (799, 28497), (842, 28605),

Gene: Kouch_41 Start: 30803, Stop: 29415, Start Num: 370

Candidate Starts for Kouch_41:

(274, 31025), (Start: 370 @30803 has 138 MA's), (419, 30659), (421, 30653), (422, 30650), (463, 30536), (474, 30509), (490, 30449), (499, 30422), (501, 30419), (538, 30323), (550, 30281), (594, 30110), (601, 30089), (606, 30074), (632, 30014), (670, 29954), (702, 29858), (725, 29795), (743, 29741), (762, 29657), (764, 29651), (766, 29639), (789, 29543), (810, 29489), (811, 29486), (820, 29462),

Gene: Kovu_95 Start: 56142, Stop: 57803, Start Num: 129

Candidate Starts for Kovu_95:

(77, 56019), (90, 56058), (Start: 129 @56142 has 9 MA's), (154, 56202), (196, 56289), (198, 56292), (257, 56463), (262, 56475), (316, 56595), (380, 56631), (388, 56655), (401, 56688), (405, 56700), (424, 56736), (426, 56742), (444, 56790), (466, 56832), (513, 56952), (544, 57015), (574, 57048), (583, 57078), (589, 57099), (603, 57132), (624, 57165), (651, 57222), (662, 57249), (681, 57291), (697, 57348), (711, 57372), (729, 57402), (733, 57420), (744, 57447), (750, 57474), (771, 57549), (778, 57576), (789, 57624), (793, 57636), (802, 57657), (804, 57666), (805, 57669), (814, 57696), (816, 57702), (828, 57729), (845, 57756), (850, 57768), (852, 57771), (855, 57777),

Gene: Krampus_40 Start: 25943, Stop: 27850, Start Num: 68

Candidate Starts for Krampus_40:

(17, 25769), (Start: 68 @25943 has 34 MA's), (96, 26006), (109, 26027), (128, 26081), (207, 26243), (216, 26258), (231, 26303), (298, 26477), (306, 26486), (355, 26576), (Start: 370 @26618 has 138 MA's), (378, 26633), (443, 26819), (490, 26954), (493, 26966), (510, 26999), (577, 27128), (626, 27245), (676, 27320), (753, 27554), (754, 27557), (768, 27617), (788, 27707), (802, 27737), (815, 27779), (840, 27830),

Gene: Kurt_72 Start: 56722, Stop: 54656, Start Num: 36

Candidate Starts for Kurt_72:

(2, 57220), (5, 57019), (8, 56926), (9, 56914), (11, 56896), (Start: 36 @56722 has 34 MA's), (Start: 87 @56584 has 2 MA's), (Start: 98 @56560 has 3 MA's), (188, 56356), (213, 56311), (251, 56203), (303, 56089), (306, 56086), (355, 55996), (357, 55993), (Start: 387 @55933 has 1 MA's), (441, 55795), (450, 55777), (458, 55753), (495, 55630), (532, 55525), (577, 55399), (594, 55345), (660, 55219), (662, 55210), (671, 55186), (700, 55114), (702, 55108), (710, 55078), (733, 55021), (753, 54961), (769, 54898), (787, 54817),

Gene: Kurt1_41 Start: 31114, Stop: 29726, Start Num: 370

Candidate Starts for Kurt1_41:

(120, 31765), (242, 31411), (274, 31336), (Start: 370 @31114 has 138 MA's), (419, 30970), (421, 30964), (422, 30961), (463, 30847), (474, 30820), (490, 30760), (499, 30733), (501, 30730), (538, 30634), (550, 30592), (590, 30430), (594, 30421), (601, 30400), (606, 30385), (612, 30373), (632, 30325), (670, 30265), (702, 30169), (725, 30106), (743, 30052), (762, 29968), (764, 29962), (766, 29950), (789, 29854), (810, 29800), (811, 29797), (820, 29773),

Gene: Kvothe_56 Start: 53206, Stop: 51515, Start Num: 99

Candidate Starts for Kvothe_56:

(Start: 95 @53218 has 9 MA's), (Start: 99 @53206 has 2 MA's), (178, 53023), (Start: 227 @52933 has 28 MA's), (229, 52924), (239, 52888), (243, 52864), (248, 52855), (251, 52846), (272, 52798), (282, 52774), (317, 52702), (331, 52681), (Start: 387 @52645 has 1 MA's), (388, 52642), (441, 52513), (445, 52510), (465, 52474), (466, 52471), (473, 52453), (475, 52444), (478, 52432), (493, 52384), (511, 52351), (532, 52303), (544, 52279), (583, 52213), (624, 52114), (668, 52015), (671, 52006), (683, 51982), (684, 51979), (733, 51886), (743, 51862), (744, 51859), (761, 51802), (765, 51784), (791, 51667), (792, 51664), (798, 51652), (845, 51553), (855, 51532),

Gene: Labella_35 Start: 23381, Stop: 24808, Start Num: 217

Candidate Starts for Labelle_35:

(191, 23339), (Start: 217 @23381 has 16 MA's), (397, 23699), (441, 23801), (465, 23846), (473, 23867), (591, 24134), (612, 24182), (622, 24203), (648, 24260), (661, 24293), (677, 24329), (702, 24407), (708, 24428), (743, 24509), (744, 24512), (767, 24599), (771, 24611), (781, 24650), (789, 24686), (797, 24704), (818, 24767),

Gene: Labelle_76 Start: 49171, Stop: 51204, Start Num: 62

Candidate Starts for Labelle_76:

(Start: 62 @49171 has 8 MA's), (74, 49195), (Start: 99 @49258 has 2 MA's), (128, 49324), (149, 49375), (150, 49378), (197, 49486), (216, 49519), (229, 49558), (Start: 237 @49582 has 1 MA's), (259, 49645), (273, 49663), (275, 49666), (282, 49684), (283, 49690), (313, 49759), (331, 49786), (339, 49798), (359, 49831), (398, 49933), (446, 50056), (458, 50086), (490, 50191), (495, 50209), (531, 50299), (532, 50302), (559, 50404), (567, 50443), (573, 50470), (577, 50482), (591, 50530), (598, 50548), (610, 50575), (616, 50587), (623, 50596), (702, 50734), (718, 50779), (752, 50884), (783, 51013), (794, 51046), (802, 51064), (820, 51118), (840, 51157),

Gene: Lahirium_57 Start: 53124, Stop: 51712, Start Num: 227

Candidate Starts for Lahirium_57:

(72, 53472), (123, 53343), (Start: 158 @53253 has 3 MA's), (Start: 227 @53124 has 28 MA's), (239, 53079), (272, 52989), (273, 52986), (276, 52980), (283, 52959), (317, 52896), (406, 52788), (421, 52770), (462, 52683), (465, 52668), (478, 52626), (511, 52545), (532, 52497), (548, 52455), (574, 52437), (575, 52434), (583, 52407), (602, 52356), (624, 52320), (646, 52269), (684, 52185), (690, 52164), (761, 52008), (762, 52002), (765, 51990), (797, 51864), (845, 51750),

Gene: Lakshmi_29 Start: 22120, Stop: 23511, Start Num: 212

Candidate Starts for Lakshmi_29:

(Start: 212 @22120 has 74 MA's), (240, 22207), (279, 22279), (280, 22282), (303, 22345), (306, 22348), (320, 22366), (323, 22372), (385, 22399), (422, 22456), (435, 22507), (440, 22513), (441, 22516), (462, 22546), (473, 22582), (477, 22600), (489, 22636), (495, 22657), (508, 22675), (523, 22708), (545, 22747), (577, 22789), (585, 22816), (593, 22840), (610, 22876), (612, 22882), (627, 22915), (633, 22930), (637, 22939), (659, 22984), (670, 23017), (671, 23020), (702, 23104), (708, 23125), (712, 23137), (721, 23155), (753, 23245), (760, 23266), (761, 23269), (766, 23293), (767, 23302), (789, 23389), (807, 23440), (823, 23479), (834, 23503),

Gene: Lambo_58 Start: 40249, Stop: 42159, Start Num: 56

Candidate Starts for Lambo_58:

(Start: 55 @40246 has 13 MA's), (Start: 56 @40249 has 54 MA's), (Start: 70 @40261 has 16 MA's), (86, 40309), (105, 40342), (184, 40528), (191, 40543), (226, 40609), (251, 40696), (273, 40729), (307, 40810), (312, 40819), (319, 40828), (403, 41002), (405, 41008), (420, 41035), (455, 41128), (460, 41149), (462, 41155), (465, 41170), (473, 41191), (490, 41248), (495, 41266), (511, 41302), (529, 41344), (549, 41404), (586, 41500), (587, 41503), (708, 41731), (743, 41821), (753, 41857), (755, 41863), (768, 41917), (779, 41956), (808, 42058), (813, 42073), (822, 42094),

Gene: Laroye_95 Start: 55108, Stop: 56772, Start Num: 129

Candidate Starts for Laroye_95:

(Start: 129 @55108 has 9 MA's), (154, 55171), (179, 55231), (201, 55267), (221, 55312), (257, 55432), (293, 55525), (306, 55549), (316, 55561), (386, 55615), (405, 55666), (424, 55702), (431, 55729), (444, 55756), (466, 55798), (513, 55915), (548, 55993), (574, 56011), (589, 56062), (603, 56095), (624, 56128), (651, 56185), (662, 56212), (681, 56254), (697, 56311), (711, 56335), (729, 56365), (733, 56383), (744, 56410), (771, 56512), (778, 56539), (781, 56551), (802, 56620), (804, 56629), (805, 56632), (814, 56659), (816, 56665), (837, 56701), (845, 56716), (852, 56731), (856, 56752),

Gene: LastNadiia_40 Start: 28701, Stop: 26893, Start Num: 65

Candidate Starts for LastNadiia_40:

(Start: 65 @28701 has 9 MA's), (88, 28641), (187, 28440), (Start: 237 @28323 has 1 MA's), (239, 28311), (276, 28227), (385, 28089), (433, 27903), (465, 27810), (473, 27789), (476, 27777), (536, 27618), (542, 27603), (577, 27555), (622, 27486), (625, 27480), (631, 27465), (655, 27426), (665, 27417), (687, 27363), (688, 27360), (695, 27342), (701, 27324), (702, 27321), (756, 27168), (765, 27135), (771, 27108), (776, 27087), (782, 27060), (809, 26970), (831, 26919),

Gene: Laure_105 Start: 73569, Stop: 75428, Start Num: 63

Candidate Starts for Laure_105:

(Start: 63 @73569 has 11 MA's), (161, 73788), (171, 73809), (181, 73830), (184, 73836), (222, 73869), (236, 73938), (239, 73953), (248, 73980), (253, 73995), (260, 74007), (272, 74028), (290, 74085), (301, 74109), (412, 74256), (414, 74268), (473, 74460), (517, 74586), (536, 74631), (544, 74649), (549, 74670), (575, 74688), (577, 74694), (586, 74727), (590, 74739), (602, 74766), (611, 74787), (623, 74805), (665, 74871), (666, 74874), (688, 74931), (710, 75000), (742, 75078), (744, 75084), (745, 75087), (775, 75201), (805, 75309), (827, 75366),

Gene: LavAbarElk_60 Start: 40030, Stop: 41943, Start Num: 56

Candidate Starts for LavAbarElk_60:

(19, 39904), (22, 39913), (23, 39925), (34, 39958), (Start: 55 @40027 has 13 MA's), (Start: 56 @40030 has 54 MA's), (Start: 70 @40042 has 16 MA's), (86, 40090), (105, 40123), (132, 40192), (171, 40282), (184, 40309), (188, 40318), (226, 40390), (273, 40510), (295, 40573), (350, 40663), (361, 40690), (420, 40819), (427, 40843), (441, 40885), (455, 40912), (460, 40933), (465, 40954), (473, 40975), (490, 41032), (495, 41050), (511, 41086), (529, 41128), (549, 41188), (586, 41284), (587, 41287), (708, 41515), (743, 41605), (753, 41641), (755, 41647), (768, 41701), (779, 41740), (808, 41842), (813, 41857), (822, 41878),

Gene: LazerLemon_42 Start: 31529, Stop: 32923, Start Num: 218

Candidate Starts for LazerLemon_42:

(Start: 174 @31445 has 1 MA's), (Start: 218 @31529 has 13 MA's), (Start: 227 @31562 has 28 MA's), (239, 31607), (248, 31631), (272, 31661), (273, 31664), (279, 31676), (329, 31766), (Start: 387 @31790 has 1 MA's), (441, 31901), (475, 31976), (489, 32021), (512, 32072), (513, 32075), (520, 32096), (591, 32237), (603, 32264), (612, 32285), (622, 32306), (648, 32363), (659, 32390), (661, 32396), (664, 32405), (682, 32447), (701, 32513), (702, 32516), (708, 32537), (714, 32555), (724, 32573), (744, 32627), (767, 32714), (768, 32717), (781, 32765), (790, 32804), (797, 32819), (821, 32888), (829, 32906), (834, 32915),

Gene: Leafus_40 Start: 31402, Stop: 30011, Start Num: 370

Candidate Starts for Leafus_40:

(316, 31516), (359, 31432), (Start: 370 @31402 has 138 MA's), (419, 31255), (421, 31249), (422, 31246), (463, 31132), (474, 31105), (490, 31045), (499, 31018), (501, 31015), (538, 30919), (550, 30877), (594, 30706), (601, 30685), (612, 30658), (670, 30550), (702, 30454), (743, 30337), (747, 30319), (762, 30253), (764, 30247), (766, 30235), (789, 30139), (810, 30085), (811, 30082), (820, 30058), (836, 30028),

Gene: Lederberg_45 Start: 37131, Stop: 38507, Start Num: 370

Candidate Starts for Lederberg_45:

(Start: 370 @37131 has 138 MA's), (400, 37200), (406, 37218), (426, 37311), (448, 37371), (451, 37377), (453, 37380), (486, 37500), (492, 37518), (543, 37635), (579, 37773), (590, 37812), (601, 37845), (603, 37851), (610, 37866), (626, 37905), (665, 37965), (675, 37989), (690, 38025), (715, 38094), (719, 38100), (748, 38181), (769, 38277), (772, 38289), (775, 38301), (787, 38358), (789, 38364), (796, 38376), (806, 38406), (825, 38457),

Gene: LeoJr_100 Start: 80857, Stop: 82713, Start Num: 63

Candidate Starts for LeoJr_100:

(Start: 63 @80857 has 11 MA's), (181, 81130), (239, 81235), (287, 81358), (292, 81370), (296, 81379), (392, 81475), (414, 81550), (427, 81610), (478, 81763), (492, 81808), (517, 81868), (536, 81913), (575, 81970), (577, 81976), (586, 82009), (590, 82021), (595, 82033), (665, 82150), (666, 82153), (688, 82210), (701, 82246), (704, 82258), (710, 82279), (744, 82363), (769, 82456), (775, 82480), (829, 82648), (831, 82651),

Gene: Leopard_64 Start: 46071, Stop: 48014, Start Num: 56

Candidate Starts for Leopard_64:

(Start: 56 @46071 has 54 MA's), (71, 46092), (82, 46122), (Start: 126 @46221 has 3 MA's), (151, 46284), (184, 46356), (188, 46365), (216, 46413), (336, 46686), (338, 46689), (404, 46851), (422, 46887), (446, 46959), (451, 46968), (462, 47001), (478, 47058), (481, 47070), (511, 47139), (514, 47148), (522, 47166), (532, 47190), (573, 47286), (577, 47298), (586, 47331), (604, 47373), (635, 47436), (692, 47541), (764, 47757), (768, 47781), (769, 47784), (780, 47826), (785, 47856), (794, 47880), (848, 47997),

Gene: LiSara_92 Start: 55240, Stop: 56904, Start Num: 129

Candidate Starts for LiSara_92:

(Start: 129 @55240 has 9 MA's), (154, 55303), (179, 55363), (201, 55399), (221, 55444), (257, 55564), (293, 55657), (306, 55681), (316, 55693), (386, 55747), (405, 55798), (424, 55834), (431, 55861), (444, 55888), (466, 55930), (513, 56047), (548, 56125), (574, 56143), (589, 56194), (603, 56227), (624, 56260), (651, 56317), (662, 56344), (681, 56386), (697, 56443), (711, 56467), (729, 56497), (733, 56515), (744, 56542), (771, 56644), (778, 56671), (781, 56683), (802, 56752), (804, 56761), (814, 56791), (816, 56797), (837, 56833), (845, 56848), (852, 56863), (856, 56884),

Gene: Librie_40 Start: 29071, Stop: 27644, Start Num: 373

Candidate Starts for Librie_40:

(Start: 373 @29071 has 21 MA's), (383, 29041), (385, 29035), (421, 28921), (422, 28918), (499, 28681), (501, 28678), (576, 28423), (591, 28372), (594, 28366), (612, 28318), (626, 28285), (632, 28270), (661, 28198), (670, 28171), (675, 28162), (689, 28117), (691, 28111), (698, 28084), (725, 28012), (747, 27940), (753, 27904), (756, 27895), (761, 27880), (762, 27874), (766, 27856), (776, 27814), (794, 27751), (816, 27688), (820, 27679),

Gene: Lidong_57 Start: 52859, Stop: 51447, Start Num: 227

Candidate Starts for Lidong_57:

(72, 53207), (123, 53078), (Start: 158 @52988 has 3 MA's), (Start: 227 @52859 has 28 MA's), (239, 52814), (272, 52724), (273, 52721), (276, 52715), (283, 52694), (317, 52631), (394, 52553), (406, 52523), (421, 52505), (462, 52418), (465, 52403), (478, 52361), (511, 52280), (532, 52232), (548, 52190), (574, 52172), (575, 52169), (583, 52142), (602, 52091), (624, 52055), (646, 52004), (684, 51920), (690, 51899), (761, 51743), (762, 51737), (765, 51725), (797, 51599), (845, 51485),

Gene: LilStuart_25 Start: 20568, Stop: 21962, Start Num: 212

Candidate Starts for LilStuart_25:

(Start: 212 @20568 has 74 MA's), (232, 20625), (279, 20730), (280, 20733), (320, 20817), (385, 20850), (420, 20901), (422, 20907), (458, 20988), (459, 20991), (462, 20997), (473, 21033), (477, 21051), (478, 21054), (489, 21087), (495, 21108), (577, 21240), (585, 21267), (601, 21306), (610, 21327), (612, 21333), (627, 21366), (633, 21381), (637, 21390), (659, 21435), (671, 21471), (690, 21513), (708, 21576), (714, 21594), (753, 21696), (754, 21699), (760, 21717), (761, 21720), (766, 21744), (767, 21753), (789, 21840), (823, 21930), (834, 21954), (835, 21957),

Gene: LilTerminator_40 Start: 29093, Stop: 27666, Start Num: 373

Candidate Starts for LilTerminator_40:

(Start: 373 @29093 has 21 MA's), (383, 29063), (385, 29057), (421, 28943), (422, 28940), (423, 28937), (473, 28796), (499, 28703), (501, 28700), (576, 28445), (591, 28394), (594, 28388), (612, 28340), (615, 28328), (626, 28307), (670, 28193), (675, 28184), (689, 28139), (691, 28133), (698, 28106), (725, 28034), (747, 27962), (753, 27926), (756, 27917), (761, 27902), (762, 27896), (766, 27878), (776, 27836), (794, 27773), (820, 27701),

Gene: Lila22_61 Start: 41200, Stop: 43113, Start Num: 56

Candidate Starts for Lila22_61:

(Start: 55 @41197 has 13 MA's), (Start: 56 @41200 has 54 MA's), (Start: 70 @41212 has 16 MA's), (86, 41260), (105, 41293), (184, 41479), (191, 41494), (226, 41560), (251, 41647), (271, 41677), (273, 41680), (295, 41743), (307, 41761), (312, 41770), (350, 41833), (361, 41860), (420, 41989), (427, 42013), (441, 42055), (460, 42103), (465, 42124), (473, 42145), (490, 42202), (511, 42256), (529, 42298), (549, 42358), (586, 42454), (587, 42457), (685, 42634), (708, 42685), (743, 42775), (753, 42811), (755, 42817), (768, 42871), (779, 42910), (808, 43012), (813, 43027), (822, 43048),

Gene: LilyPad_52 Start: 37853, Stop: 39895, Start Num: 70

Candidate Starts for LilyPad_52:

(Start: 70 @37853 has 16 MA's), (132, 38006), (155, 38066), (216, 38180), (226, 38204), (250, 38288), (273, 38324), (361, 38492), (363, 38498), (Start: 370 @38519 has 138 MA's), (407, 38606), (455, 38717), (465, 38759), (473, 38780), (495, 38855), (532, 38939), (541, 38960), (547, 38975), (555, 39020), (556, 39023), (558, 39035), (560, 39041), (561, 39044), (563, 39077), (572, 39131), (580, 39152), (587, 39182), (591, 39194), (602, 39227), (632, 39296), (660, 39353), (680, 39401), (700, 39446), (708, 39473), (759, 39620), (773, 39680), (783, 39728), (787, 39749), (809, 39806), (815, 39824), (822, 39839), (844, 39881),

Gene: Linayshia_33 Start: 23433, Stop: 24860, Start Num: 217

Candidate Starts for Linayshia_33:

(189, 23391), (Start: 217 @23433 has 16 MA's), (421, 23790), (441, 23853), (465, 23898), (473, 23919), (591, 24186), (612, 24234), (622, 24255), (633, 24282), (646, 24309), (648, 24312), (659, 24339), (661, 24345), (677, 24381), (702, 24459), (708, 24480), (714, 24498), (721, 24510), (753, 24594), (767, 24651), (771, 24663), (781, 24702), (789, 24738), (791, 24744),

Gene: Linetti_59 Start: 53022, Stop: 51613, Start Num: 227

Candidate Starts for Linetti_59:

(72, 53400), (89, 53349), (114, 53298), (133, 53244), (145, 53214), (Start: 158 @53181 has 3 MA's), (164, 53172), (Start: 176 @53145 has 28 MA's), (Start: 227 @53022 has 28 MA's), (239, 52977), (251, 52935), (272, 52887), (273, 52884), (276, 52878), (277, 52875), (282, 52863), (283, 52857), (296, 52821), (306, 52809), (308, 52806), (406, 52686), (421, 52668), (441, 52605), (462, 52581), (465, 52566), (478, 52524), (510, 52446), (532, 52395), (574, 52335), (575, 52332), (578, 52323), (583, 52305), (599, 52263), (624, 52218), (684, 52083), (688, 52068), (694, 52047), (743, 51966), (744, 51963), (761, 51906), (762, 51900), (765, 51888), (777, 51837), (781, 51822), (782, 51813), (791, 51774), (797, 51762), (837, 51666), (845, 51651),

Gene: Litotes_29 Start: 22115, Stop: 23509, Start Num: 212

Candidate Starts for Litotes_29:

(Start: 212 @22115 has 74 MA's), (232, 22172), (279, 22277), (320, 22364), (421, 22451), (422, 22454), (462, 22544), (473, 22580), (475, 22589), (477, 22598), (495, 22655), (508, 22673), (523, 22706), (531, 22718), (577, 22787), (585, 22814), (593, 22838), (612, 22880), (627, 22913), (633, 22928), (637, 22937), (678, 23027), (700, 23096), (708, 23123), (714, 23141), (721, 23153), (753, 23243), (755, 23249), (758, 23258), (760, 23264), (767, 23300), (789, 23387), (807, 23438), (809, 23444), (823, 23477), (834, 23501),

Gene: LittleFella_57 Start: 39855, Stop: 41873, Start Num: 67

Candidate Starts for LittleFella_57:

(Start: 67 @39855 has 1 MA's), (146, 40053), (150, 40062), (151, 40065), (165, 40095), (184, 40137), (188, 40146), (Start: 227 @40224 has 28 MA's), (230, 40236), (251, 40305), (273, 40338), (275, 40341), (363, 40521), (394, 40602), (407, 40629), (451, 40734), (465, 40776), (473, 40797), (532, 40956), (542, 40980), (555, 41037), (556, 41040), (560, 41058), (564, 41097), (575, 41157), (580, 41169), (584, 41187), (587, 41199), (595, 41220), (636, 41307), (648, 41310), (649, 41313), (680, 41379), (700, 41424), (708, 41451), (743, 41544), (764, 41619), (766, 41631), (768, 41643), (771, 41652), (773, 41661), (783, 41709), (787, 41727), (809, 41784), (822, 41817), (846, 41856),

Gene: Lizz_70 Start: 50158, Stop: 48272, Start Num: 61

Candidate Starts for Lizz_70:

(42, 50218), (Start: 61 @50158 has 8 MA's), (Start: 70 @50143 has 16 MA's), (96, 50080), (Start: 100 @50071 has 1 MA's), (109, 50059), (147, 49966), (175, 49903), (184, 49885), (216, 49828), (226, 49804), (284, 49645), (298, 49606), (306, 49597), (361, 49489), (406, 49381), (441, 49276), (475, 49177), (493, 49117), (531, 49030), (532, 49027), (586, 48922), (589, 48913), (594, 48901), (642, 48802), (708, 48685), (712, 48673), (724, 48646), (754, 48556), (759, 48541), (771, 48487), (783, 48430), (831, 48304),

Gene: Lizzo_59 Start: 52326, Stop: 50794, Start Num: 176

Candidate Starts for Lizzo_59:

(72, 52581), (89, 52530), (114, 52479), (133, 52425), (145, 52395), (Start: 158 @52362 has 3 MA's), (164, 52353), (Start: 176 @52326 has 28 MA's), (239, 52158), (251, 52116), (272, 52068), (277, 52056), (282, 52044), (283, 52038), (288, 52017), (306, 51990), (421, 51849), (462, 51762), (465, 51747), (470, 51735), (478, 51705), (494, 51654), (510, 51627), (532, 51576), (544, 51552), (548, 51534), (574, 51516), (575, 51513), (583, 51486), (599, 51444), (624, 51399), (684, 51264), (688, 51249), (694, 51228), (733, 51171), (743, 51147), (761, 51087), (762, 51081), (764, 51075), (765, 51069), (777, 51018), (782, 50994), (791, 50955), (797, 50943), (798, 50940), (837, 50847), (845, 50832), (855, 50811),

Gene: Lollipop1437_76 Start: 57598, Stop: 55541, Start Num: 36

Candidate Starts for Lollipop1437_76:

(6, 57886), (10, 57778), (Start: 36 @57598 has 34 MA's), (197, 57223), (240, 57115), (252, 57082), (282, 57031), (303, 56971), (306, 56968), (346, 56896), (355, 56878), (Start: 387 @56815 has 1 MA's), (389, 56809), (400, 56782), (428, 56716), (441, 56677), (450, 56659), (458, 56635), (495, 56512), (508, 56479), (532, 56416), (577, 56293), (602, 56224), (610, 56206), (662, 56101), (666, 56092), (689, 56032), (702, 55993), (710, 55963), (733, 55906), (753, 55846), (762, 55816), (769, 55783), (819, 55618),

Gene: LordBart_42 Start: 26597, Stop: 28531, Start Num: 70

Candidate Starts for LordBart_42:

(14, 26357), (Start: 33 @26501 has 1 MA's), (66, 26591), (Start: 70 @26597 has 16 MA's), (128, 26744), (135, 26762), (216, 26921), (298, 27137), (306, 27146), (355, 27236), (Start: 370 @27278 has 138 MA's), (382, 27308), (427, 27440), (493, 27626), (502, 27644), (510, 27659), (532, 27716), (573, 27776), (599, 27848), (667, 27986), (692, 28052), (701, 28082), (702, 28085), (731, 28160), (754, 28238), (768, 28298), (788, 28388), (799, 28406),

Gene: Lovelyunicorn_41 Start: 31119, Stop: 29731, Start Num: 370

Candidate Starts for Lovelyunicorn_41:

(120, 31770), (242, 31416), (274, 31341), (Start: 370 @31119 has 138 MA's), (419, 30975), (421, 30969), (422, 30966), (463, 30852), (474, 30825), (490, 30765), (499, 30738), (501, 30735), (538, 30639), (550, 30597), (594, 30426), (601, 30405), (612, 30378), (632, 30330), (670, 30270), (725, 30111), (743, 30057), (762, 29973), (764, 29967), (766, 29955), (789, 29859), (810, 29805), (811, 29802), (820, 29778),

Gene: Lucky3_39 Start: 30647, Stop: 29256, Start Num: 372

Candidate Starts for Lucky3_39:

(Start: 372 @30647 has 8 MA's), (Start: 376 @30644 has 23 MA's), (385, 30614), (419, 30506), (422, 30497), (437, 30443), (473, 30362), (490, 30296), (501, 30266), (517, 30221), (538, 30170), (590, 29966), (594, 29957), (606, 29918), (612, 29906), (615, 29894), (617, 29891), (635, 29855), (640, 29846), (658, 29831), (670, 29795), (676, 29783), (680, 29771), (702, 29696), (725, 29636), (753, 29528), (756, 29519), (761, 29504), (762, 29498), (764, 29492), (837, 29270),

Gene: LuckyBarnes_64 Start: 49560, Stop: 48223, Start Num: 376

Candidate Starts for LuckyBarnes_64:

(314, 49698), (342, 49635), (Start: 376 @49560 has 23 MA's), (404, 49485), (406, 49479), (415, 49449), (427, 49401), (432, 49383), (451, 49344), (470, 49290), (490, 49221), (516, 49149), (546, 49083), (568, 49002), (590, 48915), (597, 48897), (598, 48891), (601, 48882), (632, 48807), (675, 48735), (702, 48648), (705, 48633), (715, 48609), (717, 48606), (719, 48603), (780, 48384), (787, 48345), (788, 48342), (805, 48300), (817, 48264),

Gene: LuckyLeo_57 Start: 40044, Stop: 41966, Start Num: 55

Candidate Starts for LuckyLeo_57:

(20, 39927), (24, 39948), (31, 39969), (44, 39999), (50, 40032), (Start: 55 @40044 has 13 MA's), (Start: 56 @40047 has 54 MA's), (Start: 70 @40062 has 16 MA's), (75, 40077), (86, 40110), (105, 40143), (107, 40146), (Start: 126 @40194 has 3 MA's), (132, 40212), (171, 40302), (179, 40320), (184, 40329), (188, 40338), (226, 40410), (273, 40530), (275, 40533), (295, 40593), (307, 40611), (350, 40683), (361, 40710), (422, 40845), (427, 40863), (441, 40905), (451, 40926), (455, 40932), (465, 40974), (473, 40995), (478, 41016), (490, 41052), (529, 41151), (531, 41160), (549, 41211), (586, 41307), (587, 41310), (659, 41421), (685, 41487), (700, 41511), (708, 41538), (765, 41706), (768, 41724), (774, 41748), (779, 41763), (780, 41769), (787, 41811), (794, 41826), (808, 41865), (813, 41880), (822, 41901), (853, 41958),

Gene: LuckySocke_124 Start: 67230, Stop: 68801, Start Num: 204

Candidate Starts for LuckySocke_124:

(Start: 204 @67230 has 4 MA's), (238, 67311), (243, 67335), (277, 67401), (313, 67482), (350, 67548), (390, 67614), (393, 67623), (425, 67701), (442, 67752), (476, 67854), (482, 67875), (483, 67878), (500, 67929), (503, 67938), (509, 67953), (513, 67965), (533, 68013), (539, 68028), (685, 68298), (693, 68310), (700, 68334), (733, 68421), (764, 68514), (766, 68526), (768, 68538), (799, 68646), (802, 68658), (822, 68715), (826, 68727), (830, 68733), (855, 68781),

Gene: Lucy_25 Start: 20556, Stop: 21950, Start Num: 212

Candidate Starts for Lucy_25:

(Start: 212 @20556 has 74 MA's), (232, 20613), (279, 20718), (280, 20721), (320, 20805), (385, 20838), (422, 20895), (458, 20976), (459, 20979), (462, 20985), (473, 21021), (477, 21039), (478, 21042), (489, 21075), (495, 21096), (523, 21147), (577, 21228), (585, 21255), (601, 21294), (610, 21315), (612, 21321), (627, 21354), (633, 21369), (648, 21396), (659, 21423), (671, 21459), (708, 21564), (714, 21582), (753, 21684), (754, 21687), (760, 21705), (761, 21708), (766, 21732), (767, 21741), (789, 21828), (807, 21879), (808, 21882), (823, 21918), (834, 21942),

Gene: Ludgate_41 Start: 31117, Stop: 29729, Start Num: 370

Candidate Starts for Ludgate_41:

(274, 31339), (Start: 370 @31117 has 138 MA's), (419, 30973), (421, 30967), (422, 30964), (463, 30850), (474, 30823), (490, 30763), (499, 30736), (501, 30733), (538, 30637), (550, 30595), (594, 30424), (601, 30403), (606, 30388), (612, 30376), (632, 30328), (670, 30268), (702, 30172), (725, 30109), (743, 30055), (762, 29971), (764, 29965), (766, 29953), (783, 29878), (789, 29857), (810, 29803), (811, 29800), (820, 29776),

Gene: Luker_58 Start: 53170, Stop: 51665, Start Num: 174

Candidate Starts for Luker_58:

(72, 53425), (123, 53296), (Start: 158 @53206 has 3 MA's), (Start: 174 @53170 has 1 MA's), (Start: 227 @53077 has 28 MA's), (239, 53032), (272, 52942), (273, 52939), (276, 52933), (283, 52912), (317, 52849), (406, 52741), (421, 52723), (462, 52636), (465, 52621), (478, 52579), (511, 52498), (532, 52450), (548, 52408), (574, 52390), (575, 52387), (583, 52360), (602, 52309), (624, 52273), (646, 52222), (684, 52138), (690, 52117), (761, 51961), (762, 51955), (765, 51943), (797, 51817), (845, 51703),

Gene: Luna18_42 Start: 30536, Stop: 29130, Start Num: 373

Candidate Starts for Luna18_42:

(Start: 373 @30536 has 21 MA's), (383, 30506), (420, 30389), (421, 30386), (422, 30383), (441, 30323), (451, 30302), (463, 30260), (474, 30233), (499, 30146), (501, 30143), (516, 30101), (536, 30050), (576, 29888), (594, 29831), (615, 29771), (621, 29762), (626, 29750), (658, 29711), (667, 29684), (668, 29681), (670, 29675), (698, 29588), (703, 29576), (753, 29408), (756, 29399), (761, 29384), (762, 29378), (764, 29372), (766, 29360), (802, 29237), (809, 29213), (820, 29183),

Gene: MCubed_40 Start: 30968, Stop: 29556, Start Num: 376

Candidate Starts for MCubed_40:

(Start: 372 @30971 has 8 MA's), (Start: 376 @30968 has 23 MA's), (385, 30938), (Start: 387 @30932 has 1 MA's), (400, 30899), (463, 30707), (474, 30680), (490, 30620), (499, 30593), (501, 30590), (516, 30548), (538, 30494), (550, 30452), (576, 30338), (594, 30281), (601, 30260), (606, 30245), (612, 30233), (615, 30221), (617, 30218), (626, 30200), (658, 30119), (670, 30083), (689, 30029), (701, 29987), (710, 29957), (718, 29942), (722, 29933), (724, 29927), (739, 29885), (753, 29816), (761, 29792), (762, 29786), (764, 29780), (766, 29768), (789, 29672), (794, 29663), (802, 29645), (805, 29633), (807, 29627), (822, 29588),

Gene: MacGully_81 Start: 56374, Stop: 54335, Start Num: 39

Candidate Starts for MacGully_81:

(Start: 39 @56374 has 1 MA's), (Start: 63 @56305 has 11 MA's), (Start: 65 @56299 has 9 MA's), (216, 55975), (Start: 227 @55951 has 28 MA's), (251, 55870), (252, 55867), (298, 55765), (303, 55756), (322, 55726), (355, 55660), (390, 55588), (422, 55519), (446, 55447), (465, 55390), (532, 55210), (542, 55186), (565, 55123), (577, 55087), (602, 55018), (604, 55012), (610, 55000), (689, 54826), (762, 54604), (769, 54571), (780, 54529), (785, 54499), (787, 54490), (800, 54466), (802, 54457), (815, 54415),

Gene: Madi_50 Start: 36692, Stop: 38746, Start Num: 70

Candidate Starts for Madi_50:

(Start: 70 @36692 has 16 MA's), (78, 36716), (108, 36779), (139, 36863), (155, 36905), (250, 37127), (273, 37163), (301, 37238), (326, 37277), (351, 37319), (363, 37337), (Start: 370 @37358 has 138 MA's), (378, 37370), (402, 37430), (407, 37445), (420, 37463), (446, 37541), (455, 37556), (456, 37559), (465, 37598), (473, 37619), (510, 37721), (532, 37778), (541, 37799), (542, 37802), (547, 37814), (556, 37862), (557, 37868), (563, 37916), (566, 37949), (573, 37973), (580, 37991), (587, 38021), (635, 38144), (649, 38177), (654, 38189), (662, 38204), (680, 38243), (700, 38288), (708, 38315), (741, 38399), (759, 38462), (768, 38504), (771, 38513), (773, 38522), (783, 38570), (785, 38579), (787, 38591), (794, 38606), (809, 38648),

Gene: Madruga_74 Start: 48812, Stop: 50845, Start Num: 62

Candidate Starts for Madruga_74:

(30, 48722), (Start: 62 @48812 has 8 MA's), (74, 48836), (Start: 99 @48899 has 2 MA's), (128, 48965), (149, 49016), (150, 49019), (197, 49127), (216, 49160), (229, 49199), (Start: 237 @49223 has 1 MA's), (259, 49286), (273, 49304), (282, 49325), (283, 49331), (313, 49400), (331, 49427), (339, 49439),

(359, 49472), (398, 49574), (446, 49697), (458, 49727), (490, 49832), (495, 49850), (531, 49940), (532, 49943), (559, 50045), (567, 50084), (573, 50111), (577, 50123), (591, 50171), (598, 50189), (610, 50216), (616, 50228), (623, 50237), (702, 50375), (718, 50420), (752, 50525), (783, 50654), (794, 50687), (802, 50705), (820, 50759), (840, 50798),

Gene: MaeLinda_41 Start: 31118, Stop: 29730, Start Num: 370

Candidate Starts for MaeLinda_41:

(242, 31415), (274, 31340), (Start: 370 @31118 has 138 MA's), (419, 30974), (421, 30968), (422, 30965), (463, 30851), (474, 30824), (490, 30764), (499, 30737), (501, 30734), (506, 30728), (538, 30638), (550, 30596), (594, 30425), (606, 30389), (612, 30377), (626, 30344), (632, 30329), (670, 30269), (725, 30110), (743, 30056), (762, 29972), (764, 29966), (766, 29954), (789, 29858), (810, 29804), (811, 29801), (820, 29777),

Gene: Makima_38 Start: 27813, Stop: 26014, Start Num: 65

Candidate Starts for Makima_38:

(Start: 65 @27813 has 9 MA's), (88, 27756), (124, 27693), (Start: 237 @27438 has 1 MA's), (239, 27426), (276, 27342), (385, 27204), (423, 27054), (433, 27018), (447, 26982), (465, 26928), (473, 26907), (529, 26757), (536, 26736), (575, 26679), (577, 26673), (607, 26628), (622, 26604), (625, 26598), (634, 26574), (655, 26544), (665, 26535), (695, 26460), (701, 26442), (702, 26439), (756, 26286), (771, 26226), (782, 26178), (829, 26040), (831, 26037),

Gene: Makoto_25 Start: 20576, Stop: 21970, Start Num: 212

Candidate Starts for Makoto_25:

(Start: 212 @20576 has 74 MA's), (232, 20633), (279, 20738), (320, 20825), (385, 20858), (422, 20915), (435, 20966), (458, 20996), (459, 20999), (462, 21005), (473, 21041), (477, 21059), (478, 21062), (489, 21095), (495, 21116), (577, 21248), (585, 21275), (601, 21314), (610, 21335), (612, 21341), (627, 21374), (633, 21389), (637, 21398), (659, 21443), (671, 21479), (690, 21521), (708, 21584), (714, 21602), (753, 21704), (754, 21707), (760, 21725), (761, 21728), (766, 21752), (767, 21761), (789, 21848), (823, 21938), (834, 21962),

Gene: MamaPearl_26 Start: 21743, Stop: 23140, Start Num: 212

Candidate Starts for MamaPearl_26:

(Start: 212 @21743 has 74 MA's), (232, 21803), (279, 21908), (280, 21911), (320, 21995), (385, 22028), (420, 22079), (422, 22085), (458, 22166), (462, 22175), (473, 22211), (477, 22229), (478, 22232), (489, 22265), (495, 22286), (577, 22418), (596, 22475), (601, 22484), (610, 22505), (612, 22511), (627, 22544), (633, 22559), (661, 22619), (671, 22649), (701, 22730), (714, 22772), (731, 22805), (749, 22868), (754, 22877), (758, 22889), (760, 22895), (764, 22910), (766, 22922), (767, 22931), (789, 23018), (809, 23075), (823, 23108),

Gene: ManRay_40 Start: 30816, Stop: 29428, Start Num: 370

Candidate Starts for ManRay_40:

(274, 31038), (Start: 370 @30816 has 138 MA's), (419, 30672), (421, 30666), (422, 30663), (463, 30549), (474, 30522), (490, 30462), (499, 30435), (501, 30432), (538, 30336), (550, 30294), (594, 30123), (601, 30102), (606, 30087), (632, 30027), (670, 29967), (702, 29871), (725, 29808), (743, 29754), (762, 29670), (764, 29664), (766, 29652), (789, 29556), (810, 29502), (811, 29499), (820, 29475),

Gene: Mandalorian_39 Start: 30635, Stop: 29223, Start Num: 376

Candidate Starts for Mandalorian_39:

(Start: 372 @30638 has 8 MA's), (Start: 376 @30635 has 23 MA's), (385, 30605), (Start: 387 @30599 has 1 MA's), (421, 30491), (423, 30485), (463, 30374), (474, 30347), (486, 30296), (490, 30287), (499, 30260), (501, 30257), (516, 30215), (538, 30161), (576, 30005), (591, 29954), (594, 29948), (601, 29927), (603, 29921), (606, 29912), (612, 29900), (615, 29888), (652, 29810), (670, 29750), (673,

29744), (689, 29696), (701, 29654), (725, 29591), (731, 29579), (737, 29555), (739, 29552), (753, 29483), (756, 29474), (761, 29459), (762, 29453), (764, 29447), (766, 29435), (794, 29330), (802, 29312), (805, 29300), (822, 29255),

Gene: Mareelih_167 Start: 96276, Stop: 94366, Start Num: 62

Candidate Starts for Mareelih_167:

(Start: 62 @96276 has 8 MA's), (155, 96072), (178, 96024), (207, 95979), (229, 95898), (234, 95886), (273, 95781), (283, 95754), (382, 95649), (390, 95625), (434, 95460), (532, 95193), (536, 95184), (547, 95157), (586, 95088), (688, 94839), (708, 94773), (718, 94749), (764, 94614), (778, 94554), (797, 94482),

Gene: Maria1952_26 Start: 21732, Stop: 23129, Start Num: 212

Candidate Starts for Maria1952_26:

(Start: 212 @21732 has 74 MA's), (232, 21792), (269, 21879), (279, 21897), (280, 21900), (320, 21984), (323, 21990), (385, 22017), (420, 22068), (422, 22074), (435, 22125), (441, 22134), (458, 22155), (462, 22164), (473, 22200), (478, 22221), (489, 22254), (495, 22275), (508, 22293), (510, 22299), (523, 22326), (531, 22338), (537, 22353), (577, 22407), (593, 22458), (596, 22464), (601, 22473), (603, 22479), (612, 22500), (627, 22533), (633, 22548), (637, 22557), (690, 22680), (701, 22719), (708, 22743), (712, 22755), (753, 22863), (755, 22869), (758, 22878), (760, 22884), (767, 22920), (789, 23007), (823, 23097), (834, 23121),

Gene: Marietta_72 Start: 52748, Stop: 50667, Start Num: 36

Candidate Starts for Marietta_72:

(9, 52940), (11, 52922), (16, 52847), (Start: 36 @52748 has 34 MA's), (251, 52229), (273, 52196), (282, 52175), (299, 52121), (303, 52115), (306, 52112), (355, 52022), (357, 52019), (Start: 387 @51959 has 1 MA's), (450, 51803), (495, 51656), (532, 51548), (542, 51524), (577, 51422), (594, 51368), (602, 51353), (641, 51272), (662, 51233), (687, 51170), (700, 51131), (702, 51125), (710, 51095), (753, 50978), (769, 50915), (783, 50852), (787, 50834), (819, 50750),

Gene: Marky_44 Start: 31624, Stop: 33015, Start Num: 219

Candidate Starts for Marky_44:

(207, 31615), (Start: 219 @31624 has 3 MA's), (220, 31630), (239, 31699), (248, 31723), (279, 31768), (331, 31861), (420, 31927), (465, 32038), (475, 32068), (476, 32071), (524, 32194), (591, 32329), (603, 32356), (612, 32377), (622, 32398), (627, 32410), (682, 32539), (702, 32608), (708, 32629), (714, 32647), (724, 32665), (744, 32719), (753, 32749), (767, 32806), (768, 32809), (781, 32857), (802, 32926), (821, 32980), (829, 32998),

Gene: Martin_42 Start: 31123, Stop: 29735, Start Num: 370

Candidate Starts for Martin_42:

(120, 31774), (242, 31420), (274, 31345), (Start: 370 @31123 has 138 MA's), (419, 30979), (421, 30973), (422, 30970), (463, 30856), (474, 30829), (490, 30769), (499, 30742), (501, 30739), (538, 30643), (550, 30601), (590, 30439), (594, 30430), (601, 30409), (606, 30394), (612, 30382), (632, 30334), (670, 30274), (702, 30178), (725, 30115), (743, 30061), (762, 29977), (764, 29971), (766, 29959), (789, 29863), (810, 29809), (811, 29806), (820, 29782),

Gene: Maselop_72 Start: 53166, Stop: 51130, Start Num: 37

Candidate Starts for Maselop_72:

(12, 53334), (Start: 37 @53166 has 6 MA's), (60, 53100), (79, 53058), (128, 52953), (213, 52773), (236, 52716), (251, 52665), (259, 52650), (298, 52560), (306, 52548), (355, 52455), (390, 52383), (422, 52314), (446, 52242), (465, 52185), (532, 52005), (542, 51981), (565, 51918), (577, 51882), (610, 51795), (676, 51663), (688, 51624), (689, 51621), (702, 51576), (753, 51429), (769, 51366), (780, 51324), (787, 51285), (800, 51261),

Gene: Mbo2_52 Start: 42925, Stop: 41438, Start Num: 194

Candidate Starts for Mbo2_52:

(153, 43012), (Start: 194 @42925 has 3 MA's), (229, 42838), (239, 42802), (243, 42784), (251, 42769), (258, 42754), (265, 42742), (272, 42730), (275, 42724), (287, 42682), (394, 42559), (445, 42445), (477, 42370), (494, 42316), (531, 42241), (532, 42238), (544, 42214), (575, 42175), (586, 42136), (606, 42094), (690, 41911), (711, 41851), (726, 41833), (743, 41788), (744, 41785), (757, 41737), (760, 41728), (765, 41707), (768, 41689), (774, 41665), (781, 41641), (791, 41599), (802, 41572), (805, 41560), (815, 41530), (822, 41515), (845, 41473),

Gene: McGalleon_43 Start: 32555, Stop: 31152, Start Num: 373

Candidate Starts for McGalleon_43:

(263, 32789), (283, 32738), (326, 32648), (Start: 373 @32555 has 21 MA's), (419, 32411), (421, 32405), (441, 32342), (463, 32288), (474, 32261), (490, 32201), (499, 32174), (501, 32171), (537, 32078), (538, 32075), (550, 32033), (590, 31871), (594, 31862), (601, 31841), (612, 31814), (635, 31763), (670, 31706), (689, 31652), (702, 31610), (718, 31565), (755, 31433), (762, 31409), (764, 31403), (766, 31391), (789, 31295), (802, 31268), (810, 31241), (820, 31214), (837, 31184),

Gene: MeganNoll_29 Start: 22157, Stop: 23557, Start Num: 212

Candidate Starts for MeganNoll_29:

(Start: 212 @22157 has 74 MA's), (232, 22220), (279, 22325), (280, 22328), (320, 22412), (385, 22445), (420, 22496), (422, 22502), (458, 22583), (459, 22586), (462, 22592), (473, 22628), (477, 22646), (478, 22649), (495, 22703), (523, 22754), (577, 22835), (585, 22862), (596, 22892), (601, 22901), (612, 22928), (627, 22961), (633, 22976), (659, 23030), (666, 23051), (670, 23063), (678, 23075), (755, 23297), (758, 23306), (760, 23312), (767, 23348), (782, 23408), (789, 23435), (823, 23525),

Gene: Megatron06_62 Start: 46630, Stop: 48687, Start Num: 56

Candidate Starts for Megatron06_62:

(Start: 56 @46630 has 54 MA's), (84, 46690), (85, 46693), (Start: 126 @46786 has 3 MA's), (130, 46798), (138, 46819), (191, 46942), (193, 46945), (197, 46954), (216, 46987), (222, 47008), (229, 47056), (240, 47098), (273, 47161), (282, 47182), (283, 47188), (303, 47242), (398, 47428), (403, 47440), (410, 47458), (420, 47473), (422, 47479), (532, 47797), (534, 47800), (549, 47845), (573, 47896), (577, 47908), (610, 47998), (616, 48010), (632, 48043), (649, 48067), (653, 48076), (702, 48166), (712, 48199), (752, 48310), (753, 48313), (754, 48316), (755, 48319), (765, 48355), (768, 48373), (783, 48439), (787, 48457), (857, 48634),

Gene: MerCougar_75 Start: 57668, Stop: 55593, Start Num: 36

Candidate Starts for MerCougar_75:

(Start: 36 @57668 has 34 MA's), (79, 57548), (Start: 100 @57503 has 1 MA's), (103, 57500), (213, 57257), (236, 57200), (251, 57149), (282, 57095), (306, 57032), (355, 56942), (357, 56939), (364, 56915), (Start: 387 @56879 has 1 MA's), (450, 56723), (458, 56699), (495, 56576), (532, 56465), (542, 56441), (577, 56342), (594, 56288), (623, 56234), (641, 56192), (662, 56153), (676, 56126), (689, 56084), (700, 56051), (710, 56015), (731, 55970), (733, 55958), (753, 55898), (787, 55754), (819, 55670),

Gene: Mercedes_36 Start: 28234, Stop: 26813, Start Num: 373

Candidate Starts for Mercedes_36:

(Start: 373 @28234 has 21 MA's), (385, 28198), (412, 28114), (437, 28027), (441, 28021), (469, 27949), (473, 27937), (499, 27844), (501, 27841), (519, 27790), (576, 27586), (594, 27529), (612, 27481), (626, 27448), (635, 27430), (670, 27334), (675, 27325), (689, 27280), (691, 27274), (702, 27238), (718, 27193), (725, 27175), (753, 27067), (756, 27058), (761, 27043), (762, 27037), (809, 26872),

Gene: Merida02_43 Start: 31117, Stop: 29729, Start Num: 370

Candidate Starts for Merida02_43:

(274, 31339), (Start: 370 @31117 has 138 MA's), (419, 30973), (421, 30967), (422, 30964), (463, 30850), (474, 30823), (490, 30763), (499, 30736), (501, 30733), (506, 30727), (538, 30637), (550, 30595), (594, 30424), (606, 30388), (612, 30376), (626, 30343), (632, 30328), (670, 30268), (702, 30172), (725, 30109), (743, 30055), (762, 29971), (764, 29965), (766, 29953), (789, 29857), (810, 29803), (811, 29800), (820, 29776),

Gene: Microdon_41 Start: 30843, Stop: 32237, Start Num: 218

Candidate Starts for Microdon_41:

(Start: 218 @30843 has 13 MA's), (Start: 219 @30846 has 3 MA's), (239, 30921), (248, 30945), (250, 30951), (272, 30975), (279, 30990), (280, 30993), (311, 31065), (329, 31080), (391, 31116), (441, 31215), (524, 31416), (591, 31551), (603, 31578), (612, 31599), (648, 31677), (661, 31710), (664, 31719), (682, 31761), (701, 31827), (702, 31830), (708, 31851), (714, 31869), (724, 31887), (744, 31941), (753, 31971), (767, 32028), (768, 32031), (781, 32079), (790, 32118), (797, 32133), (821, 32202), (829, 32220), (834, 32229),

Gene: Milani_33 Start: 22173, Stop: 23600, Start Num: 215

Candidate Starts for Milani_33:

(Start: 215 @22173 has 2 MA's), (420, 22527), (421, 22530), (427, 22551), (465, 22638), (612, 22974), (622, 22995), (633, 23022), (646, 23049), (648, 23052), (661, 23085), (677, 23121), (701, 23196), (708, 23220), (733, 23283), (744, 23304), (761, 23358), (767, 23391), (771, 23403), (781, 23442), (789, 23478), (791, 23484), (797, 23496), (802, 23511), (818, 23559), (823, 23568), (834, 23592),

Gene: MillyPhilly_41 Start: 31111, Stop: 29723, Start Num: 370

Candidate Starts for MillyPhilly_41:

(120, 31762), (242, 31408), (274, 31333), (Start: 370 @31111 has 138 MA's), (419, 30967), (421, 30961), (422, 30958), (463, 30844), (474, 30817), (490, 30757), (499, 30730), (501, 30727), (538, 30631), (550, 30589), (590, 30427), (594, 30418), (601, 30397), (606, 30382), (612, 30370), (632, 30322), (670, 30262), (702, 30166), (725, 30103), (743, 30049), (762, 29965), (764, 29959), (766, 29947), (789, 29851), (810, 29797), (811, 29794), (820, 29770),

Gene: Mima20_60 Start: 40803, Stop: 42716, Start Num: 56

Candidate Starts for Mima20_60:

(Start: 55 @40800 has 13 MA's), (Start: 56 @40803 has 54 MA's), (Start: 70 @40815 has 16 MA's), (86, 40863), (105, 40896), (132, 40965), (171, 41055), (184, 41082), (188, 41091), (226, 41163), (273, 41283), (295, 41346), (350, 41436), (361, 41463), (420, 41592), (427, 41616), (441, 41658), (460, 41706), (465, 41727), (473, 41748), (490, 41805), (511, 41859), (529, 41901), (549, 41961), (586, 42057), (587, 42060), (685, 42237), (708, 42288), (743, 42378), (753, 42414), (755, 42420), (768, 42474), (779, 42513), (808, 42615), (813, 42630), (822, 42651),

Gene: Mimi_101 Start: 80085, Stop: 81923, Start Num: 63

Candidate Starts for Mimi_101:

(Start: 63 @80085 has 11 MA's), (96, 80166), (135, 80244), (181, 80340), (Start: 227 @80400 has 28 MA's), (236, 80430), (283, 80550), (301, 80601), (384, 80661), (486, 81000), (509, 81057), (517, 81078), (536, 81123), (575, 81180), (577, 81186), (586, 81219), (590, 81231), (595, 81243), (616, 81288), (635, 81327), (676, 81384), (678, 81390), (688, 81423), (710, 81492), (744, 81576), (775, 81693), (832, 81867), (854, 81909),

Gene: MiniVolent_38 Start: 30515, Stop: 29145, Start Num: 376

Candidate Starts for MiniVolent_38:

(Start: 372 @30518 has 8 MA's), (Start: 376 @30515 has 23 MA's), (Start: 409 @30413 has 1 MA's), (463, 30254), (474, 30227), (490, 30167), (499, 30140), (501, 30137), (531, 30056), (538, 30041),

(594, 29828), (601, 29807), (603, 29801), (606, 29792), (615, 29768), (626, 29747), (632, 29732), (647, 29708), (670, 29672), (689, 29618), (725, 29513), (731, 29501), (739, 29474), (747, 29441), (753, 29405), (756, 29396), (761, 29381), (762, 29375), (764, 29369), (766, 29357), (789, 29261), (794, 29252), (802, 29234), (805, 29222), (820, 29180), (833, 29153),

Gene: Minos_58 Start: 52601, Stop: 51189, Start Num: 227

Candidate Starts for Minos_58:

(72, 52949), (123, 52820), (156, 52733), (Start: 158 @52730 has 3 MA's), (Start: 227 @52601 has 28 MA's), (239, 52556), (272, 52466), (273, 52463), (276, 52457), (283, 52436), (317, 52373), (406, 52265), (421, 52247), (462, 52160), (465, 52145), (478, 52103), (511, 52022), (532, 51974), (548, 51932), (574, 51914), (575, 51911), (583, 51884), (602, 51833), (624, 51797), (646, 51746), (684, 51662), (690, 51641), (761, 51485), (762, 51479), (765, 51467), (797, 51341), (845, 51227),

Gene: Mireles_41 Start: 27371, Stop: 25572, Start Num: 65

Candidate Starts for Mireles_41:

(Start: 65 @27371 has 9 MA's), (88, 27314), (124, 27251), (Start: 237 @26996 has 1 MA's), (239, 26984), (276, 26900), (324, 26789), (385, 26762), (423, 26612), (433, 26576), (447, 26540), (465, 26486), (473, 26465), (536, 26294), (575, 26237), (577, 26231), (607, 26186), (622, 26162), (625, 26156), (634, 26132), (655, 26102), (665, 26093), (695, 26018), (701, 26000), (702, 25997), (756, 25844), (771, 25784), (782, 25736), (829, 25598), (831, 25595),

Gene: Misaeng_29 Start: 22230, Stop: 23621, Start Num: 212

Candidate Starts for Misaeng_29:

(Start: 212 @22230 has 74 MA's), (240, 22317), (279, 22389), (280, 22392), (306, 22458), (320, 22476), (385, 22509), (422, 22566), (458, 22647), (462, 22656), (473, 22692), (477, 22710), (489, 22746), (495, 22767), (508, 22785), (523, 22818), (577, 22899), (585, 22926), (593, 22950), (610, 22986), (612, 22992), (627, 23025), (633, 23040), (637, 23049), (659, 23094), (670, 23127), (671, 23130), (702, 23214), (712, 23247), (714, 23253), (721, 23265), (753, 23355), (755, 23361), (760, 23376), (761, 23379), (764, 23391), (766, 23403), (767, 23412), (789, 23499), (823, 23589),

Gene: MoiGyank_63 Start: 41576, Stop: 43489, Start Num: 56

Candidate Starts for MoiGyank_63:

(Start: 55 @41573 has 13 MA's), (Start: 56 @41576 has 54 MA's), (Start: 70 @41588 has 16 MA's), (86, 41636), (105, 41669), (132, 41738), (171, 41828), (184, 41855), (188, 41864), (226, 41936), (273, 42056), (295, 42119), (350, 42209), (420, 42365), (427, 42389), (441, 42431), (460, 42479), (465, 42500), (473, 42521), (490, 42578), (495, 42596), (511, 42632), (529, 42674), (549, 42734), (586, 42830), (587, 42833), (685, 43010), (708, 43061), (743, 43151), (753, 43187), (755, 43193), (765, 43229), (768, 43247), (779, 43286), (808, 43388), (813, 43403), (822, 43424),

Gene: Moki_25 Start: 20566, Stop: 21960, Start Num: 212

Candidate Starts for Moki_25:

(Start: 212 @20566 has 74 MA's), (232, 20623), (279, 20728), (320, 20815), (385, 20848), (421, 20902), (422, 20905), (462, 20995), (473, 21031), (477, 21049), (478, 21052), (495, 21106), (577, 21238), (585, 21265), (596, 21295), (601, 21304), (612, 21331), (627, 21364), (633, 21379), (648, 21406), (659, 21433), (671, 21469), (690, 21511), (708, 21574), (714, 21592), (744, 21664), (749, 21688), (753, 21694), (754, 21697), (760, 21715), (761, 21718), (766, 21742), (767, 21751), (789, 21838), (807, 21889), (823, 21928),

Gene: MonChoix_39 Start: 31157, Stop: 29766, Start Num: 370

Candidate Starts for MonChoix_39:

(Start: 370 @31157 has 138 MA's), (419, 31010), (421, 31004), (422, 31001), (463, 30887), (474, 30860), (490, 30800), (499, 30773), (501, 30770), (538, 30674), (550, 30632), (594, 30461), (603, 30434), (632, 30365), (670, 30305), (743, 30092), (747, 30074), (753, 30038), (762, 30008), (764,

30002), (766, 29990), (789, 29894), (810, 29840), (811, 29837),

Gene: Monty_58 Start: 51476, Stop: 49944, Start Num: 176

Candidate Starts for Monty_58:

(72, 51731), (89, 51680), (114, 51629), (133, 51575), (145, 51545), (Start: 158 @51512 has 3 MA's), (164, 51503), (Start: 176 @51476 has 28 MA's), (239, 51308), (251, 51266), (272, 51218), (277, 51206), (282, 51194), (283, 51188), (288, 51167), (306, 51140), (421, 50999), (462, 50912), (465, 50897), (470, 50885), (478, 50855), (494, 50804), (510, 50777), (532, 50726), (574, 50666), (575, 50663), (583, 50636), (599, 50594), (624, 50549), (684, 50414), (688, 50399), (694, 50378), (743, 50297), (744, 50294), (761, 50237), (762, 50231), (764, 50225), (765, 50219), (782, 50144), (791, 50105), (797, 50093), (798, 50090), (837, 49997), (845, 49982), (855, 49961),

Gene: MontyDev_68 Start: 47606, Stop: 49366, Start Num: 200

Candidate Starts for MontyDev_68:

(Start: 200 @47606 has 9 MA's), (230, 47675), (270, 47771), (275, 47780), (305, 47861), (334, 47906), (406, 48083), (420, 48107), (434, 48155), (458, 48215), (462, 48227), (480, 48293), (522, 48416), (532, 48440), (542, 48464), (577, 48668), (586, 48701), (591, 48716), (610, 48755), (611, 48758), (616, 48767), (662, 48836), (718, 48968), (753, 49091), (754, 49094), (762, 49121), (768, 49151), (770, 49157), (771, 49160), (775, 49178), (779, 49190), (822, 49325), (838, 49352), (839, 49355),

Gene: Mopey_54 Start: 39729, Stop: 41672, Start Num: 56

Candidate Starts for Mopey_54:

(Start: 56 @39729 has 54 MA's), (74, 39756), (Start: 106 @39828 has 1 MA's), (127, 39882), (151, 39942), (159, 39960), (163, 39969), (187, 40020), (208, 40062), (226, 40098), (251, 40185), (291, 40278), (299, 40293), (313, 40314), (Start: 370 @40416 has 138 MA's), (385, 40449), (394, 40473), (422, 40533), (455, 40620), (476, 40695), (511, 40785), (532, 40836), (534, 40839), (569, 40929), (577, 40947), (586, 40980), (610, 41034), (616, 41046), (626, 41064), (662, 41127), (700, 41211), (743, 41328), (753, 41376), (769, 41439), (787, 41523),

Gene: Morrigan_42 Start: 30540, Stop: 29155, Start Num: 375

Candidate Starts for Morrigan_42:

(Start: 373 @30543 has 21 MA's), (Start: 375 @30540 has 1 MA's), (383, 30513), (Start: 387 @30501 has 1 MA's), (388, 30498), (Start: 409 @30435 has 1 MA's), (441, 30330), (461, 30279), (463, 30267), (499, 30153), (501, 30150), (516, 30108), (536, 30057), (594, 29838), (612, 29790), (615, 29778), (617, 29775), (621, 29769), (626, 29757), (658, 29718), (670, 29682), (676, 29670), (689, 29628), (698, 29595), (702, 29586), (703, 29583), (725, 29523), (753, 29415), (756, 29406), (761, 29391), (762, 29385), (764, 29379), (766, 29367), (794, 29262), (802, 29244), (809, 29220), (820, 29190),

Gene: MortySmith_38 Start: 24974, Stop: 26881, Start Num: 68

Candidate Starts for MortySmith_38:

(17, 24800), (Start: 68 @24974 has 34 MA's), (96, 25037), (109, 25058), (128, 25112), (191, 25247), (216, 25289), (231, 25334), (298, 25508), (306, 25517), (355, 25607), (Start: 370 @25649 has 138 MA's), (378, 25664), (443, 25850), (490, 25985), (493, 25997), (510, 26030), (577, 26159), (626, 26276), (753, 26585), (754, 26588), (768, 26648), (788, 26738), (802, 26768), (815, 26810), (840, 26861),

Gene: MrBoss_30 Start: 22115, Stop: 23509, Start Num: 212

Candidate Starts for MrBoss_30:

(Start: 212 @22115 has 74 MA's), (232, 22172), (279, 22277), (320, 22364), (420, 22448), (421, 22451), (422, 22454), (462, 22544), (473, 22580), (475, 22589), (477, 22598), (495, 22655), (508, 22673), (523, 22706), (577, 22787), (585, 22814), (593, 22838), (612, 22880), (627, 22913), (633, 22928), (678, 23027), (708, 23123), (714, 23141), (721, 23153), (753, 23243), (755, 23249), (758, 23258), (760, 23264), (767, 23300), (789, 23387), (807, 23438), (809, 23444), (823, 23477), (834,

23501),

Gene: MrMiyagi_73 Start: 45205, Stop: 47052, Start Num: 98

Candidate Starts for MrMiyagi_73:

(Start: 98 @45205 has 3 MA's), (112, 45223), (125, 45259), (146, 45310), (197, 45418), (216, 45451), (236, 45511), (248, 45553), (271, 45592), (310, 45688), (318, 45700), (335, 45727), (341, 45742), (343, 45751), (363, 45790), (367, 45805), (403, 45892), (407, 45904), (446, 46003), (450, 46009), (458, 46033), (476, 46093), (505, 46171), (515, 46198), (529, 46228), (532, 46240), (542, 46264), (577, 46342), (586, 46375), (591, 46390), (603, 46414), (604, 46417), (616, 46441), (753, 46765), (756, 46774), (764, 46801), (768, 46825), (780, 46870), (787, 46912), (806, 46960), (812, 46978), (841, 47035),

Gene: MrWorldwide_41 Start: 31121, Stop: 29733, Start Num: 370

Candidate Starts for MrWorldwide_41:

(120, 31772), (242, 31418), (274, 31343), (Start: 370 @31121 has 138 MA's), (419, 30977), (421, 30971), (422, 30968), (463, 30854), (474, 30827), (490, 30767), (499, 30740), (501, 30737), (538, 30641), (550, 30599), (590, 30437), (594, 30428), (601, 30407), (606, 30392), (612, 30380), (632, 30332), (670, 30272), (702, 30176), (725, 30113), (743, 30059), (762, 29975), (764, 29969), (766, 29957), (789, 29861), (810, 29807), (811, 29804), (820, 29780),

Gene: MrWormie_57 Start: 51762, Stop: 50350, Start Num: 227

Candidate Starts for MrWormie_57:

(72, 52110), (123, 51981), (Start: 158 @51891 has 3 MA's), (Start: 227 @51762 has 28 MA's), (239, 51717), (272, 51627), (273, 51624), (276, 51618), (283, 51597), (317, 51534), (406, 51426), (421, 51408), (462, 51321), (465, 51306), (478, 51264), (511, 51183), (532, 51135), (548, 51093), (574, 51075), (575, 51072), (583, 51045), (602, 50994), (624, 50958), (646, 50907), (684, 50823), (690, 50802), (761, 50646), (762, 50640), (765, 50628), (797, 50502), (845, 50388),

Gene: Msay19_64 Start: 54046, Stop: 52514, Start Num: 176

Candidate Starts for Msay19_64:

(72, 54301), (89, 54250), (133, 54145), (145, 54115), (Start: 158 @54082 has 3 MA's), (164, 54073), (Start: 176 @54046 has 28 MA's), (239, 53878), (251, 53836), (259, 53818), (272, 53788), (277, 53776), (282, 53764), (283, 53758), (288, 53737), (421, 53569), (462, 53482), (465, 53467), (470, 53455), (478, 53425), (494, 53374), (532, 53296), (544, 53272), (548, 53254), (574, 53236), (575, 53233), (578, 53224), (583, 53206), (599, 53164), (624, 53119), (631, 53101), (684, 52984), (688, 52969), (694, 52948), (743, 52867), (744, 52864), (761, 52807), (762, 52801), (765, 52789), (782, 52714), (791, 52675), (797, 52663), (798, 52660), (837, 52567), (845, 52552),

Gene: NadineRae_71 Start: 52357, Stop: 50276, Start Num: 36

Candidate Starts for NadineRae_71:

(Start: 36 @52357 has 34 MA's), (128, 52126), (251, 51838), (273, 51805), (282, 51784), (299, 51730), (303, 51724), (306, 51721), (355, 51631), (357, 51628), (Start: 387 @51568 has 1 MA's), (450, 51412), (495, 51265), (521, 51184), (532, 51157), (542, 51133), (577, 51031), (594, 50977), (602, 50962), (641, 50881), (662, 50842), (687, 50779), (700, 50740), (702, 50734), (710, 50704), (753, 50587), (769, 50524), (783, 50461), (787, 50443), (819, 50359),

Gene: Nagem_41 Start: 31114, Stop: 29726, Start Num: 370

Candidate Starts for Nagem_41:

(120, 31765), (242, 31411), (274, 31336), (Start: 370 @31114 has 138 MA's), (419, 30970), (421, 30964), (422, 30961), (463, 30847), (474, 30820), (490, 30760), (499, 30733), (501, 30730), (538, 30634), (550, 30592), (590, 30430), (594, 30421), (601, 30400), (606, 30385), (612, 30373), (632, 30325), (670, 30265), (702, 30169), (725, 30106), (743, 30052), (762, 29968), (764, 29962), (766, 29950), (783, 29875), (789, 29854), (810, 29800), (811, 29797), (820, 29773),

Gene: Nancia_25 Start: 20580, Stop: 21974, Start Num: 212

Candidate Starts for Nancia_25:

(Start: 212 @20580 has 74 MA's), (232, 20637), (279, 20742), (280, 20745), (320, 20829), (385, 20862), (420, 20913), (422, 20919), (458, 21000), (459, 21003), (462, 21009), (473, 21045), (477, 21063), (478, 21066), (489, 21099), (495, 21120), (577, 21252), (585, 21279), (601, 21318), (610, 21339), (612, 21345), (627, 21378), (633, 21393), (637, 21402), (659, 21447), (671, 21483), (690, 21525), (708, 21588), (714, 21606), (753, 21708), (754, 21711), (760, 21729), (761, 21732), (766, 21756), (767, 21765), (789, 21852), (823, 21942), (834, 21966),

Gene: NarutoRun_40 Start: 25911, Stop: 27818, Start Num: 68

Candidate Starts for NarutoRun_40:

(Start: 68 @25911 has 34 MA's), (96, 25974), (109, 25995), (128, 26049), (216, 26226), (231, 26271), (298, 26445), (306, 26454), (355, 26544), (378, 26601), (443, 26787), (490, 26922), (493, 26934), (510, 26967), (577, 27096), (626, 27213), (676, 27288), (753, 27522), (754, 27525), (768, 27585), (788, 27675), (802, 27705), (815, 27747), (840, 27798),

Gene: NatB6_72 Start: 55674, Stop: 53746, Start Num: 87

Candidate Starts for NatB6_72:

(2, 56310), (5, 56109), (8, 56016), (9, 56004), (11, 55986), (Start: 36 @55812 has 34 MA's), (Start: 87 @55674 has 2 MA's), (Start: 98 @55650 has 3 MA's), (188, 55446), (213, 55401), (251, 55293), (303, 55179), (306, 55176), (355, 55086), (357, 55083), (Start: 387 @55023 has 1 MA's), (441, 54885), (450, 54867), (458, 54843), (495, 54720), (532, 54615), (577, 54489), (594, 54435), (604, 54414), (662, 54300), (700, 54204), (702, 54198), (710, 54168), (733, 54111), (753, 54051), (769, 53988), (787, 53907),

Gene: Nattles_40 Start: 30803, Stop: 29415, Start Num: 370

Candidate Starts for Nattles_40:

(274, 31025), (Start: 370 @30803 has 138 MA's), (419, 30659), (421, 30653), (422, 30650), (463, 30536), (474, 30509), (490, 30449), (499, 30422), (501, 30419), (537, 30326), (538, 30323), (550, 30281), (594, 30110), (601, 30089), (606, 30074), (612, 30062), (632, 30014), (670, 29954), (702, 29858), (725, 29795), (743, 29741), (762, 29657), (764, 29651), (766, 29639), (783, 29564), (789, 29543), (810, 29489), (811, 29486), (820, 29462),

Gene: Nebulous_39 Start: 32131, Stop: 30701, Start Num: 370

Candidate Starts for Nebulous_39:

(Start: 370 @32131 has 138 MA's), (383, 32098), (400, 32053), (421, 31978), (422, 31975), (469, 31843), (473, 31831), (499, 31738), (501, 31735), (503, 31732), (548, 31603), (591, 31429), (594, 31423), (601, 31402), (612, 31375), (615, 31363), (617, 31360), (626, 31342), (653, 31285), (670, 31228), (676, 31216), (689, 31174), (702, 31132), (709, 31108), (725, 31069), (743, 31015), (753, 30961), (756, 30952), (761, 30937), (762, 30931), (794, 30808), (802, 30790), (809, 30766),

Gene: Neferthena_41 Start: 31335, Stop: 29905, Start Num: 370

Candidate Starts for Neferthena_41:

(Start: 370 @31335 has 138 MA's), (383, 31302), (400, 31257), (419, 31188), (421, 31182), (422, 31179), (469, 31047), (499, 30942), (501, 30939), (591, 30633), (594, 30627), (601, 30606), (612, 30579), (626, 30546), (653, 30489), (665, 30447), (670, 30432), (676, 30420), (689, 30378), (702, 30336), (709, 30312), (718, 30291), (725, 30273), (743, 30219), (753, 30165), (756, 30156), (761, 30141), (762, 30135), (789, 30021), (807, 29976), (809, 29970), (816, 29949), (820, 29940),

Gene: Neoevie_57 Start: 52863, Stop: 51451, Start Num: 227

Candidate Starts for Neoevie_57:

(72, 53211), (123, 53082), (156, 52995), (Start: 158 @52992 has 3 MA's), (Start: 227 @52863 has 28 MA's), (239, 52818), (272, 52728), (273, 52725), (276, 52719), (283, 52698), (317, 52635), (406, 52527), (421, 52509), (462, 52422), (465, 52407), (478, 52365), (511, 52284), (532, 52236), (548, 52194), (574, 52176), (575, 52173), (583, 52146), (602, 52095), (624, 52059), (646, 52008), (684, 51924), (690, 51903), (761, 51747), (762, 51741), (765, 51729), (797, 51603), (845, 51489),

Gene: Neptune_40 Start: 25911, Stop: 27818, Start Num: 68

Candidate Starts for Neptune_40:

(Start: 68 @25911 has 34 MA's), (96, 25974), (109, 25995), (128, 26049), (216, 26226), (231, 26271), (298, 26445), (306, 26454), (355, 26544), (443, 26787), (490, 26922), (493, 26934), (510, 26967), (577, 27096), (626, 27213), (676, 27288), (753, 27522), (754, 27525), (768, 27585), (788, 27675), (802, 27705), (815, 27747), (840, 27798),

Gene: Neuville_38 Start: 26376, Stop: 24544, Start Num: 65

Candidate Starts for Neuville_38:

(Start: 65 @26376 has 9 MA's), (88, 26319), (187, 26118), (239, 25983), (292, 25848), (306, 25821), (385, 25764), (390, 25749), (408, 25695), (427, 25599), (429, 25593), (433, 25578), (452, 25533), (465, 25485), (473, 25464), (477, 25446), (493, 25395), (531, 25302), (536, 25290), (577, 25227), (609, 25155), (638, 25095), (655, 25074), (688, 25008), (695, 24990), (701, 24972), (702, 24969), (713, 24933), (753, 24825), (756, 24816), (771, 24756), (782, 24708),

Gene: Newt_58 Start: 53091, Stop: 51679, Start Num: 227

Candidate Starts for Newt_58:

(72, 53439), (123, 53310), (156, 53223), (Start: 158 @53220 has 3 MA's), (Start: 227 @53091 has 28 MA's), (239, 53046), (272, 52956), (273, 52953), (276, 52947), (283, 52926), (317, 52863), (406, 52755), (421, 52737), (462, 52650), (465, 52635), (478, 52593), (511, 52512), (532, 52464), (548, 52422), (574, 52404), (575, 52401), (583, 52374), (602, 52323), (624, 52287), (646, 52236), (684, 52152), (690, 52131), (761, 51975), (762, 51969), (765, 51957), (797, 51831), (845, 51717),

Gene: Niagara_57 Start: 53309, Stop: 51606, Start Num: 95

Candidate Starts for Niagara_57:

(Start: 95 @53309 has 9 MA's), (Start: 99 @53297 has 2 MA's), (178, 53114), (Start: 227 @53024 has 28 MA's), (229, 53015), (239, 52979), (243, 52955), (248, 52946), (251, 52937), (272, 52889), (282, 52865), (317, 52793), (331, 52772), (Start: 387 @52736 has 1 MA's), (388, 52733), (441, 52604), (445, 52601), (465, 52565), (466, 52562), (473, 52544), (475, 52535), (478, 52523), (493, 52475), (511, 52442), (532, 52394), (544, 52370), (583, 52304), (624, 52205), (668, 52106), (671, 52097), (683, 52073), (684, 52070), (733, 51977), (743, 51953), (744, 51950), (761, 51893), (765, 51875), (791, 51758), (792, 51755), (798, 51743), (845, 51644), (855, 51623),

Gene: NickSell_41 Start: 31124, Stop: 29736, Start Num: 370

Candidate Starts for NickSell_41:

(120, 31775), (242, 31421), (274, 31346), (Start: 370 @31124 has 138 MA's), (419, 30980), (421, 30974), (422, 30971), (463, 30857), (474, 30830), (490, 30770), (499, 30743), (501, 30740), (538, 30644), (550, 30602), (590, 30440), (594, 30431), (601, 30410), (606, 30395), (612, 30383), (632, 30335), (670, 30275), (702, 30179), (725, 30116), (743, 30062), (762, 29978), (764, 29972), (766, 29960), (789, 29864), (810, 29810), (811, 29807), (820, 29783),

Gene: Nilo_68 Start: 47960, Stop: 49720, Start Num: 200

Candidate Starts for Nilo_68:

(Start: 200 @47960 has 9 MA's), (230, 48029), (270, 48125), (275, 48134), (305, 48215), (334, 48260), (420, 48461), (434, 48509), (458, 48569), (462, 48581), (480, 48647), (522, 48770), (532, 48794), (542, 48818), (577, 49022), (586, 49055), (591, 49070), (610, 49109), (611, 49112), (616, 49121), (662, 49190), (718, 49322), (753, 49445), (754, 49448), (762, 49475), (768, 49505), (770, 49511),

(771, 49514), (775, 49532), (779, 49544), (822, 49679), (839, 49709),

Gene: Nimi13_57 Start: 52610, Stop: 51198, Start Num: 227

Candidate Starts for Nimi13_57:

(72, 52958), (123, 52829), (Start: 158 @52739 has 3 MA's), (Start: 227 @52610 has 28 MA's), (239, 52565), (272, 52475), (273, 52472), (276, 52466), (283, 52445), (317, 52382), (406, 52274), (421, 52256), (462, 52169), (465, 52154), (478, 52112), (511, 52031), (532, 51983), (548, 51941), (574, 51923), (575, 51920), (583, 51893), (602, 51842), (624, 51806), (646, 51755), (684, 51671), (690, 51650), (761, 51494), (762, 51488), (765, 51476), (797, 51350), (845, 51236),

Gene: NorManre_63 Start: 40960, Stop: 42873, Start Num: 56

Candidate Starts for NorManre_63:

(19, 40834), (22, 40843), (23, 40855), (34, 40888), (Start: 55 @40957 has 13 MA's), (Start: 56 @40960 has 54 MA's), (Start: 70 @40972 has 16 MA's), (86, 41020), (132, 41122), (171, 41212), (184, 41239), (188, 41248), (226, 41320), (273, 41440), (295, 41503), (350, 41593), (361, 41620), (420, 41749), (427, 41773), (441, 41815), (460, 41863), (465, 41884), (473, 41905), (490, 41962), (495, 41980), (511, 42016), (529, 42058), (549, 42118), (586, 42214), (587, 42217), (685, 42394), (708, 42445), (743, 42535), (753, 42571), (755, 42577), (768, 42631), (779, 42670), (808, 42772), (813, 42787), (822, 42808), (853, 42865),

Gene: NosilaM_73 Start: 56110, Stop: 54188, Start Num: 100

Candidate Starts for NosilaM_73:

(Start: 36 @56275 has 34 MA's), (Start: 100 @56110 has 1 MA's), (103, 56107), (213, 55852), (251, 55744), (282, 55690), (306, 55627), (355, 55537), (357, 55534), (364, 55510), (Start: 387 @55474 has 1 MA's), (441, 55336), (450, 55318), (455, 55309), (458, 55294), (495, 55171), (521, 55087), (532, 55060), (542, 55036), (577, 54937), (594, 54883), (623, 54829), (641, 54787), (662, 54748), (689, 54679), (700, 54646), (710, 54610), (731, 54565), (733, 54553), (753, 54493), (769, 54430), (819, 54265),

Gene: Nova_52 Start: 40183, Stop: 42126, Start Num: 56

Candidate Starts for Nova_52:

(38, 40120), (Start: 56 @40183 has 54 MA's), (74, 40210), (Start: 106 @40282 has 1 MA's), (127, 40336), (151, 40396), (163, 40423), (187, 40474), (188, 40477), (208, 40516), (226, 40552), (251, 40639), (291, 40732), (299, 40747), (313, 40768), (Start: 370 @40870 has 138 MA's), (385, 40903), (394, 40927), (422, 40987), (455, 41074), (476, 41149), (511, 41239), (532, 41290), (534, 41293), (569, 41383), (577, 41401), (586, 41434), (616, 41500), (626, 41518), (662, 41581), (700, 41665), (743, 41782), (753, 41830), (769, 41893), (787, 41977),

Gene: NovaSharks_62 Start: 39405, Stop: 41321, Start Num: 55

Candidate Starts for NovaSharks_62:

(Start: 55 @39405 has 13 MA's), (Start: 56 @39408 has 54 MA's), (Start: 70 @39420 has 16 MA's), (86, 39468), (105, 39501), (171, 39660), (184, 39687), (188, 39696), (226, 39768), (273, 39888), (295, 39951), (350, 40041), (361, 40068), (420, 40197), (427, 40221), (441, 40263), (446, 40275), (455, 40290), (460, 40311), (465, 40332), (473, 40353), (490, 40410), (495, 40428), (511, 40464), (529, 40506), (549, 40566), (586, 40662), (587, 40665), (685, 40842), (708, 40893), (743, 40983), (753, 41019), (755, 41025), (768, 41079), (779, 41118), (808, 41220), (813, 41235), (822, 41256),

Gene: NovumRegina_72 Start: 56100, Stop: 54034, Start Num: 36

Candidate Starts for NovumRegina_72:

(8, 56304), (9, 56292), (11, 56274), (Start: 36 @56100 has 34 MA's), (Start: 87 @55962 has 2 MA's), (Start: 98 @55938 has 3 MA's), (188, 55734), (213, 55689), (251, 55581), (303, 55467), (306, 55464), (355, 55374), (357, 55371), (Start: 387 @55311 has 1 MA's), (441, 55173), (450, 55155), (458, 55131), (495, 55008), (532, 54903), (577, 54777), (594, 54723), (660, 54597), (662, 54588), (671, 54564),

(700, 54492), (702, 54486), (710, 54456), (733, 54399), (753, 54339), (769, 54276), (787, 54195),

Gene: Nubia_29 Start: 22080, Stop: 23471, Start Num: 212

Candidate Starts for Nubia_29:

(Start: 212 @22080 has 74 MA's), (240, 22167), (279, 22239), (280, 22242), (306, 22308), (320, 22326), (323, 22332), (385, 22359), (422, 22416), (435, 22467), (462, 22506), (473, 22542), (477, 22560), (489, 22596), (495, 22617), (508, 22635), (523, 22668), (545, 22707), (577, 22749), (585, 22776), (593, 22800), (610, 22836), (612, 22842), (627, 22875), (633, 22890), (637, 22899), (659, 22944), (670, 22977), (671, 22980), (708, 23085), (712, 23097), (721, 23115), (753, 23205), (760, 23226), (761, 23229), (766, 23253), (767, 23262), (789, 23349), (807, 23400), (823, 23439), (834, 23463),

Gene: Nucci_39 Start: 30618, Stop: 29206, Start Num: 376

Candidate Starts for Nucci_39:

(Start: 372 @30621 has 8 MA's), (Start: 376 @30618 has 23 MA's), (385, 30588), (Start: 387 @30582 has 1 MA's), (400, 30549), (421, 30474), (423, 30468), (463, 30357), (474, 30330), (486, 30279), (490, 30270), (499, 30243), (501, 30240), (516, 30198), (538, 30144), (576, 29988), (591, 29937), (594, 29931), (601, 29910), (603, 29904), (606, 29895), (612, 29883), (615, 29871), (652, 29793), (670, 29733), (673, 29727), (689, 29679), (701, 29637), (725, 29574), (731, 29562), (737, 29538), (739, 29535), (753, 29466), (756, 29457), (761, 29442), (762, 29436), (764, 29430), (766, 29418), (794, 29313), (802, 29295), (805, 29283), (822, 29238),

Gene: OMalley_26 Start: 21745, Stop: 23139, Start Num: 212

Candidate Starts for OMalley_26:

(Start: 212 @21745 has 74 MA's), (232, 21802), (269, 21889), (279, 21907), (280, 21910), (320, 21994), (385, 22027), (420, 22078), (422, 22084), (441, 22144), (462, 22174), (473, 22210), (477, 22228), (495, 22285), (508, 22303), (510, 22309), (523, 22336), (577, 22417), (585, 22444), (593, 22468), (601, 22483), (612, 22510), (627, 22543), (633, 22558), (690, 22690), (700, 22726), (708, 22753), (712, 22765), (721, 22783), (753, 22873), (755, 22879), (760, 22894), (761, 22897), (767, 22930), (782, 22990), (789, 23017), (809, 23074), (823, 23107), (834, 23131),

Gene: Oaker_60 Start: 46344, Stop: 48401, Start Num: 56

Candidate Starts for Oaker_60:

(Start: 56 @46344 has 54 MA's), (84, 46404), (85, 46407), (Start: 126 @46500 has 3 MA's), (130, 46512), (138, 46533), (191, 46656), (193, 46659), (197, 46668), (216, 46701), (222, 46722), (229, 46770), (240, 46812), (273, 46875), (282, 46896), (283, 46902), (303, 46956), (398, 47142), (403, 47154), (410, 47172), (420, 47187), (422, 47193), (532, 47511), (534, 47514), (549, 47559), (573, 47610), (577, 47622), (610, 47712), (616, 47724), (632, 47757), (649, 47781), (653, 47790), (702, 47880), (712, 47913), (752, 48024), (753, 48027), (754, 48030), (755, 48033), (765, 48069), (768, 48087), (783, 48153), (787, 48171), (857, 48348),

Gene: Oats_40 Start: 30816, Stop: 29428, Start Num: 370

Candidate Starts for Oats_40:

(274, 31038), (Start: 370 @30816 has 138 MA's), (419, 30672), (421, 30666), (422, 30663), (463, 30549), (474, 30522), (490, 30462), (499, 30435), (501, 30432), (537, 30339), (538, 30336), (550, 30294), (594, 30123), (601, 30102), (606, 30087), (612, 30075), (632, 30027), (670, 29967), (702, 29871), (725, 29808), (743, 29754), (762, 29670), (764, 29664), (766, 29652), (783, 29577), (789, 29556), (810, 29502), (811, 29499), (820, 29475),

Gene: OhDear_40 Start: 25909, Stop: 27816, Start Num: 68

Candidate Starts for OhDear_40:

(Start: 68 @25909 has 34 MA's), (96, 25972), (109, 25993), (128, 26047), (216, 26224), (231, 26269), (298, 26443), (306, 26452), (355, 26542), (378, 26599), (443, 26785), (490, 26920), (493, 26932),

(510, 26965), (577, 27094), (626, 27211), (676, 27286), (753, 27520), (754, 27523), (768, 27583), (788, 27673), (802, 27703), (815, 27745), (840, 27796),

Gene: OldNelly_42 Start: 31120, Stop: 29732, Start Num: 370

Candidate Starts for OldNelly_42:

(274, 31342), (Start: 370 @31120 has 138 MA's), (419, 30976), (421, 30970), (422, 30967), (463, 30853), (474, 30826), (490, 30766), (499, 30739), (501, 30736), (506, 30730), (538, 30640), (550, 30598), (594, 30427), (606, 30391), (612, 30379), (626, 30346), (632, 30331), (670, 30271), (702, 30175), (725, 30112), (743, 30058), (762, 29974), (764, 29968), (766, 29956), (789, 29860), (810, 29806), (811, 29803), (820, 29779),

Gene: Olympi_35 Start: 23358, Stop: 24785, Start Num: 217

Candidate Starts for Olympi_35:

(Start: 217 @23358 has 16 MA's), (299, 23574), (397, 23676), (421, 23715), (441, 23778), (465, 23823), (473, 23844), (510, 23943), (591, 24111), (612, 24159), (622, 24180), (633, 24207), (646, 24234), (659, 24264), (661, 24270), (677, 24306), (702, 24384), (743, 24486), (744, 24489), (767, 24576), (771, 24588), (781, 24627), (789, 24663), (797, 24681), (818, 24744),

Gene: Onyinye_65 Start: 45953, Stop: 47881, Start Num: 56

Candidate Starts for Onyinye_65:

(Start: 56 @45953 has 54 MA's), (71, 45974), (82, 46004), (Start: 126 @46103 has 3 MA's), (151, 46166), (184, 46238), (188, 46247), (216, 46295), (299, 46511), (313, 46532), (330, 46553), (333, 46556), (340, 46568), (353, 46595), (404, 46718), (422, 46754), (446, 46826), (451, 46835), (462, 46868), (478, 46925), (481, 46937), (511, 47006), (514, 47015), (522, 47033), (532, 47057), (573, 47153), (577, 47165), (586, 47198), (604, 47240), (635, 47303), (692, 47408), (764, 47624), (768, 47648), (769, 47651), (780, 47693), (785, 47723), (794, 47747), (848, 47864),

Gene: Orchid_57 Start: 50422, Stop: 48932, Start Num: 192

Candidate Starts for Orchid_57:

(Start: 192 @50422 has 5 MA's), (229, 50329), (232, 50320), (236, 50308), (239, 50293), (243, 50275), (273, 50218), (299, 50146), (301, 50143), (386, 50050), (399, 50017), (419, 49984), (420, 49981), (426, 49960), (462, 49891), (473, 49855), (504, 49768), (532, 49705), (534, 49702), (547, 49672), (587, 49600), (590, 49591), (661, 49468), (662, 49462), (730, 49330), (744, 49288), (757, 49243), (765, 49213), (849, 48961),

Gene: Ottawa_61 Start: 33948, Stop: 35849, Start Num: 41

Candidate Starts for Ottawa_61:

(18, 33855), (Start: 41 @33948 has 2 MA's), (73, 34035), (92, 34089), (117, 34140), (134, 34188), (142, 34212), (201, 34338), (206, 34347), (272, 34533), (286, 34575), (401, 34722), (410, 34743), (433, 34800), (444, 34824), (466, 34866), (477, 34902), (535, 35040), (589, 35142), (652, 35268), (662, 35292), (681, 35334), (778, 35619), (795, 35682), (805, 35712), (843, 35793), (850, 35808),

Gene: OtterstedtS21_60 Start: 40582, Stop: 42495, Start Num: 56

Candidate Starts for OtterstedtS21_60:

(Start: 55 @40579 has 13 MA's), (Start: 56 @40582 has 54 MA's), (Start: 70 @40594 has 16 MA's), (86, 40642), (105, 40675), (132, 40744), (171, 40834), (184, 40861), (188, 40870), (226, 40942), (251, 41029), (273, 41062), (295, 41125), (350, 41215), (420, 41371), (427, 41395), (441, 41437), (460, 41485), (465, 41506), (473, 41527), (490, 41584), (511, 41638), (529, 41680), (549, 41740), (586, 41836), (587, 41839), (685, 42016), (708, 42067), (743, 42157), (753, 42193), (755, 42199), (768, 42253), (779, 42292), (808, 42394), (813, 42409), (822, 42430),

Gene: Outis_73 Start: 56760, Stop: 54685, Start Num: 36

Candidate Starts for Outis_73:

(Start: 36 @56760 has 34 MA's), (79, 56640), (Start: 100 @56595 has 1 MA's), (103, 56592), (213, 56349), (236, 56292), (251, 56241), (282, 56187), (306, 56124), (355, 56034), (357, 56031), (364, 56007), (Start: 387 @55971 has 1 MA's), (450, 55815), (458, 55791), (495, 55668), (532, 55557), (542, 55533), (577, 55434), (594, 55380), (623, 55326), (641, 55284), (662, 55245), (689, 55176), (700, 55143), (710, 55107), (731, 55062), (733, 55050), (753, 54990), (769, 54927), (787, 54846), (819, 54762),

Gene: OverHedge_40 Start: 25901, Stop: 27808, Start Num: 68

Candidate Starts for OverHedge_40:

(Start: 68 @25901 has 34 MA's), (96, 25964), (109, 25985), (128, 26039), (216, 26216), (231, 26261), (298, 26435), (306, 26444), (355, 26534), (378, 26591), (443, 26777), (490, 26912), (493, 26924), (510, 26957), (577, 27086), (626, 27203), (676, 27278), (753, 27512), (754, 27515), (768, 27575), (788, 27665), (802, 27695), (815, 27737), (840, 27788),

Gene: Oxtober96_42 Start: 31119, Stop: 29731, Start Num: 370

Candidate Starts for Oxtober96_42:

(120, 31770), (242, 31416), (274, 31341), (Start: 370 @31119 has 138 MA's), (419, 30975), (421, 30969), (422, 30966), (463, 30852), (474, 30825), (490, 30765), (499, 30738), (501, 30735), (538, 30639), (550, 30597), (594, 30426), (601, 30405), (612, 30378), (632, 30330), (670, 30270), (725, 30111), (743, 30057), (762, 29973), (764, 29967), (766, 29955), (789, 29859), (810, 29805), (811, 29802), (820, 29778),

Gene: Oxynfrius_29 Start: 22093, Stop: 23484, Start Num: 212

Candidate Starts for Oxynfrius_29:

(Start: 212 @22093 has 74 MA's), (240, 22180), (279, 22252), (280, 22255), (306, 22321), (320, 22339), (323, 22345), (385, 22372), (422, 22429), (435, 22480), (462, 22519), (473, 22555), (477, 22573), (489, 22609), (495, 22630), (508, 22648), (523, 22681), (545, 22720), (577, 22762), (585, 22789), (593, 22813), (610, 22849), (612, 22855), (627, 22888), (633, 22903), (637, 22912), (659, 22957), (670, 22990), (671, 22993), (708, 23098), (712, 23110), (721, 23128), (753, 23218), (760, 23239), (761, 23242), (766, 23266), (767, 23275), (789, 23362), (807, 23413), (823, 23452), (834, 23476),

Gene: P1201_75 Start: 57035, Stop: 55065, Start Num: 69

Candidate Starts for P1201_75:

(Start: 69 @57035 has 8 MA's), (127, 56897), (137, 56873), (195, 56741), (243, 56618), (251, 56600), (252, 56597), (355, 56390), (422, 56249), (510, 55979), (518, 55955), (529, 55934), (547, 55886), (577, 55790), (586, 55757), (611, 55700), (614, 55694), (616, 55691), (702, 55502), (764, 55319), (769, 55292), (783, 55229), (787, 55211),

Gene: PBI1_50 Start: 39660, Stop: 41603, Start Num: 56

Candidate Starts for PBI1_50:

(Start: 56 @39660 has 54 MA's), (74, 39687), (Start: 106 @39759 has 1 MA's), (127, 39813), (151, 39873), (159, 39891), (163, 39900), (187, 39951), (208, 39993), (226, 40029), (251, 40116), (291, 40209), (299, 40224), (313, 40245), (Start: 370 @40347 has 138 MA's), (385, 40380), (394, 40404), (422, 40464), (455, 40551), (476, 40626), (511, 40716), (532, 40767), (534, 40770), (569, 40860), (577, 40878), (586, 40911), (610, 40965), (616, 40977), (626, 40995), (662, 41058), (700, 41142), (743, 41259), (753, 41307), (769, 41370), (787, 41454),

Gene: PHTowN_70 Start: 50156, Stop: 48270, Start Num: 61

Candidate Starts for PHTowN_70:

(42, 50216), (Start: 61 @50156 has 8 MA's), (Start: 70 @50141 has 16 MA's), (96, 50078), (Start: 100 @50069 has 1 MA's), (109, 50057), (147, 49964), (175, 49901), (184, 49883), (216, 49826), (226, 49802), (284, 49643), (298, 49604), (306, 49595), (361, 49487), (406, 49379), (441, 49274), (475,

49175), (493, 49115), (531, 49028), (532, 49025), (586, 48920), (589, 48911), (594, 48899), (642, 48800), (679, 48761), (708, 48683), (712, 48671), (724, 48644), (754, 48554), (759, 48539), (771, 48485), (783, 48428), (831, 48302),

Gene: PLOT_53 Start: 39756, Stop: 41699, Start Num: 56

Candidate Starts for PLOT_53:

(38, 39693), (Start: 56 @39756 has 54 MA's), (74, 39783), (Start: 106 @39855 has 1 MA's), (127, 39909), (151, 39969), (163, 39996), (187, 40047), (208, 40089), (226, 40125), (251, 40212), (291, 40305), (299, 40320), (313, 40341), (Start: 370 @40443 has 138 MA's), (385, 40476), (394, 40500), (422, 40560), (455, 40647), (476, 40722), (511, 40812), (532, 40863), (534, 40866), (569, 40956), (577, 40974), (586, 41007), (616, 41073), (626, 41091), (662, 41154), (700, 41238), (743, 41355), (753, 41403), (769, 41466), (787, 41550),

Gene: PSirce_40 Start: 31102, Stop: 29690, Start Num: 376

Candidate Starts for PSirce_40:

(Start: 372 @31105 has 8 MA's), (Start: 376 @31102 has 23 MA's), (385, 31072), (Start: 387 @31066 has 1 MA's), (400, 31033), (463, 30841), (474, 30814), (490, 30754), (499, 30727), (501, 30724), (516, 30682), (527, 30658), (538, 30628), (550, 30586), (594, 30415), (601, 30394), (606, 30379), (612, 30367), (615, 30355), (617, 30352), (626, 30334), (658, 30253), (670, 30217), (689, 30163), (701, 30121), (710, 30091), (722, 30067), (724, 30061), (737, 30022), (739, 30019), (753, 29950), (761, 29926), (762, 29920), (764, 29914), (766, 29902), (789, 29806), (794, 29797), (802, 29779), (805, 29767), (822, 29722),

Gene: Pajaza_37 Start: 29766, Stop: 28396, Start Num: 376

Candidate Starts for Pajaza_37:

(Start: 376 @29766 has 23 MA's), (417, 29637), (423, 29616), (463, 29505), (464, 29502), (488, 29418), (490, 29412), (493, 29400), (501, 29382), (509, 29361), (538, 29286), (548, 29253), (590, 29082), (591, 29079), (594, 29073), (595, 29070), (606, 29037), (632, 28977), (670, 28917), (673, 28911), (675, 28908), (676, 28905), (701, 28821), (746, 28689), (753, 28650), (761, 28626), (762, 28620), (766, 28602), (789, 28506), (802, 28479), (805, 28467), (816, 28434), (822, 28422),

Gene: Panchaali_92 Start: 77571, Stop: 79412, Start Num: 63

Candidate Starts for Panchaali_92:

(Start: 63 @77571 has 11 MA's), (173, 77829), (181, 77844), (239, 77949), (251, 77985), (269, 78015), (292, 78084), (296, 78093), (301, 78105), (322, 78138), (414, 78264), (478, 78477), (492, 78522), (517, 78582), (536, 78627), (575, 78684), (577, 78690), (586, 78723), (590, 78735), (595, 78747), (665, 78864), (666, 78867), (678, 78891), (691, 78933), (701, 78960), (710, 78993), (723, 79017), (744, 79077), (769, 79170), (775, 79194), (829, 79362), (831, 79365),

Gene: Papafritta_40 Start: 30824, Stop: 29436, Start Num: 370

Candidate Starts for Papafritta_40:

(242, 31121), (274, 31046), (Start: 370 @30824 has 138 MA's), (419, 30680), (421, 30674), (422, 30671), (463, 30557), (474, 30530), (490, 30470), (499, 30443), (501, 30440), (538, 30344), (550, 30302), (594, 30131), (601, 30110), (606, 30095), (632, 30035), (661, 30002), (670, 29975), (702, 29879), (725, 29816), (743, 29762), (762, 29678), (764, 29672), (766, 29660), (789, 29564), (810, 29510), (811, 29507), (820, 29483),

Gene: Papyrus_66 Start: 47571, Stop: 49331, Start Num: 200

Candidate Starts for Papyrus_66:

(Start: 200 @47571 has 9 MA's), (230, 47640), (270, 47736), (275, 47745), (305, 47826), (334, 47871), (420, 48072), (434, 48120), (458, 48180), (462, 48192), (480, 48258), (522, 48381), (532, 48405), (542, 48429), (577, 48633), (586, 48666), (591, 48681), (610, 48720), (611, 48723), (616, 48732), (662, 48801), (718, 48933), (753, 49056), (754, 49059), (762, 49086), (768, 49116), (770, 49122),

(771, 49125), (775, 49143), (779, 49155), (822, 49290), (838, 49317), (839, 49320),

Gene: Park1214_131 Start: 68214, Stop: 69704, Start Num: 238

Candidate Starts for Park1214_131:

(Start: 204 @68133 has 4 MA's), (238, 68214), (239, 68220), (245, 68241), (248, 68247), (275, 68298), (277, 68304), (299, 68367), (350, 68451), (390, 68517), (393, 68526), (425, 68604), (442, 68655), (476, 68757), (478, 68766), (483, 68781), (500, 68832), (503, 68841), (513, 68868), (533, 68916), (539, 68931), (764, 69417), (766, 69429), (799, 69549), (802, 69561), (826, 69630), (830, 69636), (855, 69684),

Gene: ParleG_41 Start: 31121, Stop: 29733, Start Num: 370

Candidate Starts for ParleG_41:

(120, 31772), (242, 31418), (274, 31343), (Start: 370 @31121 has 138 MA's), (419, 30977), (421, 30971), (422, 30968), (463, 30854), (474, 30827), (490, 30767), (499, 30740), (501, 30737), (538, 30641), (550, 30599), (590, 30437), (594, 30428), (601, 30407), (606, 30392), (612, 30380), (632, 30332), (670, 30272), (702, 30176), (725, 30113), (743, 30059), (762, 29975), (764, 29969), (766, 29957), (789, 29861), (810, 29807), (811, 29804), (820, 29780),

Gene: PartyCup_29 Start: 22162, Stop: 23556, Start Num: 212

Candidate Starts for PartyCup_29:

(Start: 212 @22162 has 74 MA's), (232, 22219), (279, 22324), (320, 22411), (420, 22495), (421, 22498), (422, 22501), (462, 22591), (473, 22627), (475, 22636), (477, 22645), (495, 22702), (508, 22720), (523, 22753), (531, 22765), (577, 22834), (585, 22861), (593, 22885), (610, 22921), (612, 22927), (627, 22960), (633, 22975), (637, 22984), (678, 23074), (700, 23143), (708, 23170), (714, 23188), (721, 23200), (753, 23290), (755, 23296), (758, 23305), (760, 23311), (767, 23347), (789, 23434), (809, 23491), (823, 23524), (834, 23548),

Gene: Parvaparticeps_24 Start: 17958, Stop: 16552, Start Num: 213

Candidate Starts for Parvaparticeps_24:

(213, 17958), (272, 17817), (279, 17802), (326, 17718), (396, 17655), (420, 17622), (441, 17556), (458, 17535), (462, 17526), (465, 17511), (475, 17481), (484, 17451), (510, 17397), (591, 17235), (627, 17154), (646, 17109), (659, 17079), (660, 17076), (677, 17037), (708, 16938), (714, 16920), (721, 16908), (730, 16890), (766, 16770), (767, 16761), (781, 16710), (782, 16701), (783, 16692), (789, 16674), (797, 16656), (818, 16593), (823, 16584), (834, 16560),

Gene: ParvusTarda_59 Start: 39954, Stop: 41870, Start Num: 55

Candidate Starts for ParvusTarda_59:

(19, 39831), (22, 39840), (23, 39852), (34, 39885), (Start: 55 @39954 has 13 MA's), (Start: 56 @39957 has 54 MA's), (Start: 70 @39969 has 16 MA's), (86, 40017), (105, 40050), (132, 40119), (171, 40209), (184, 40236), (188, 40245), (226, 40317), (251, 40404), (273, 40437), (295, 40500), (350, 40590), (420, 40746), (427, 40770), (441, 40812), (460, 40860), (465, 40881), (473, 40902), (490, 40959), (511, 41013), (529, 41055), (549, 41115), (586, 41211), (587, 41214), (685, 41391), (708, 41442), (743, 41532), (753, 41568), (755, 41574), (768, 41628), (779, 41667), (808, 41769), (813, 41784), (822, 41805),

Gene: Patbob_100 Start: 80820, Stop: 82658, Start Num: 63

Candidate Starts for Patbob_100:

(Start: 63 @80820 has 11 MA's), (135, 80979), (181, 81075), (Start: 227 @81135 has 28 MA's), (236, 81165), (272, 81255), (283, 81285), (301, 81336), (384, 81396), (509, 81792), (517, 81813), (536, 81858), (577, 81921), (586, 81954), (590, 81966), (595, 81978), (616, 82023), (635, 82062), (676, 82119), (678, 82125), (688, 82158), (710, 82227), (744, 82311), (775, 82428), (832, 82602), (854, 82644),

Gene: Patience_76 Start: 49716, Stop: 51749, Start Num: 62

Candidate Starts for Patience_76:

(Start: 62 @49716 has 8 MA's), (74, 49740), (Start: 99 @49803 has 2 MA's), (128, 49869), (149, 49920), (150, 49923), (197, 50031), (216, 50064), (229, 50103), (Start: 237 @50127 has 1 MA's), (259, 50190), (273, 50208), (275, 50211), (282, 50229), (283, 50235), (313, 50304), (331, 50331), (339, 50343), (359, 50376), (398, 50478), (446, 50601), (458, 50631), (490, 50736), (495, 50754), (531, 50844), (532, 50847), (559, 50949), (567, 50988), (573, 51015), (575, 51021), (577, 51027), (591, 51075), (598, 51093), (610, 51120), (616, 51132), (623, 51141), (752, 51429), (783, 51558), (794, 51591), (802, 51609), (820, 51663), (840, 51702),

Gene: Patio_74 Start: 56655, Stop: 54598, Start Num: 36

Candidate Starts for Patio_74:

(6, 56943), (10, 56835), (Start: 36 @56655 has 34 MA's), (197, 56280), (240, 56172), (252, 56139), (282, 56088), (303, 56028), (306, 56025), (346, 55953), (355, 55935), (Start: 387 @55872 has 1 MA's), (389, 55866), (400, 55839), (428, 55773), (441, 55734), (450, 55716), (458, 55692), (476, 55632), (495, 55569), (508, 55536), (532, 55473), (577, 55350), (602, 55281), (610, 55263), (662, 55158), (666, 55149), (689, 55089), (700, 55056), (702, 55050), (710, 55020), (733, 54963), (753, 54903), (762, 54873), (769, 54840), (819, 54675),

Gene: Patos_63 Start: 40959, Stop: 42872, Start Num: 56

Candidate Starts for Patos_63:

(19, 40833), (22, 40842), (23, 40854), (34, 40887), (Start: 55 @40956 has 13 MA's), (Start: 56 @40959 has 54 MA's), (Start: 70 @40971 has 16 MA's), (86, 41019), (132, 41121), (171, 41211), (184, 41238), (188, 41247), (226, 41319), (273, 41439), (295, 41502), (350, 41592), (361, 41619), (420, 41748), (427, 41772), (441, 41814), (460, 41862), (465, 41883), (473, 41904), (490, 41961), (495, 41979), (511, 42015), (529, 42057), (549, 42117), (586, 42213), (587, 42216), (685, 42393), (708, 42444), (743, 42534), (753, 42570), (755, 42576), (768, 42630), (779, 42669), (808, 42771), (813, 42786), (822, 42807), (853, 42864),

Gene: PatrickStar_58 Start: 50421, Stop: 48931, Start Num: 192

Candidate Starts for PatrickStar_58:

(Start: 192 @50421 has 5 MA's), (229, 50328), (232, 50319), (236, 50307), (239, 50292), (243, 50274), (273, 50217), (299, 50145), (301, 50142), (386, 50049), (399, 50016), (419, 49983), (420, 49980), (426, 49959), (462, 49890), (473, 49854), (504, 49767), (532, 49704), (534, 49701), (547, 49671), (587, 49599), (590, 49590), (661, 49467), (662, 49461), (730, 49329), (744, 49287), (757, 49242), (765, 49212), (849, 48960),

Gene: PauloDiaboli_114 Start: 78533, Stop: 76683, Start Num: 65

Candidate Starts for PauloDiaboli_114:

(42, 78602), (44, 78596), (Start: 65 @78533 has 9 MA's), (83, 78488), (88, 78476), (150, 78350), (178, 78287), (Start: 227 @78212 has 28 MA's), (268, 78104), (275, 78086), (298, 78017), (315, 77990), (382, 77930), (427, 77765), (476, 77621), (507, 77534), (517, 77507), (532, 77471), (536, 77462), (575, 77405), (577, 77399), (590, 77354), (595, 77342), (605, 77321), (618, 77297), (635, 77261), (670, 77216), (702, 77132), (703, 77129), (704, 77123), (730, 77060), (762, 76958), (782, 76871), (792, 76829), (810, 76778),

Gene: Peep_41 Start: 31106, Stop: 29718, Start Num: 370

Candidate Starts for Peep_41:

(274, 31328), (344, 31166), (Start: 370 @31106 has 138 MA's), (419, 30962), (421, 30956), (422, 30953), (463, 30839), (474, 30812), (490, 30752), (499, 30725), (501, 30722), (538, 30626), (550, 30584), (594, 30413), (601, 30392), (606, 30377), (612, 30365), (632, 30317), (670, 30257), (702, 30161), (725, 30098), (743, 30044), (762, 29960), (764, 29954), (766, 29942), (789, 29846), (810, 29792), (811, 29789), (820, 29765),

Gene: Pemberton_73 Start: 52697, Stop: 50847, Start Num: 128

Candidate Starts for Pemberton_73:

(9, 53120), (11, 53102), (16, 53027), (Start: 36 @52928 has 34 MA's), (128, 52697), (251, 52409), (273, 52376), (282, 52355), (299, 52301), (303, 52295), (306, 52292), (355, 52202), (357, 52199), (Start: 387 @52139 has 1 MA's), (450, 51983), (495, 51836), (532, 51728), (542, 51704), (577, 51602), (594, 51548), (602, 51533), (641, 51452), (662, 51413), (687, 51350), (700, 51311), (702, 51305), (710, 51275), (753, 51158), (769, 51095), (783, 51032), (787, 51014), (819, 50930),

Gene: Penelope2018_53 Start: 39774, Stop: 41717, Start Num: 56

Candidate Starts for Penelope2018_53:

(32, 39705), (Start: 56 @39774 has 54 MA's), (74, 39801), (Start: 106 @39873 has 1 MA's), (127, 39927), (151, 39987), (159, 40005), (163, 40014), (187, 40065), (208, 40107), (226, 40143), (251, 40230), (291, 40323), (299, 40338), (313, 40359), (Start: 370 @40461 has 138 MA's), (385, 40494), (394, 40518), (422, 40578), (455, 40665), (476, 40740), (511, 40830), (532, 40881), (534, 40884), (569, 40974), (577, 40992), (586, 41025), (610, 41079), (616, 41091), (626, 41109), (662, 41172), (700, 41256), (743, 41373), (753, 41421), (769, 41484), (787, 41568),

Gene: Penta_37 Start: 29174, Stop: 27789, Start Num: 368

Candidate Starts for Penta_37:

(Start: 368 @29174 has 1 MA's), (441, 28961), (463, 28898), (473, 28877), (499, 28784), (501, 28781), (509, 28760), (516, 28739), (550, 28643), (576, 28529), (583, 28505), (594, 28472), (602, 28448), (606, 28436), (612, 28424), (615, 28412), (617, 28409), (626, 28391), (659, 28349), (670, 28316), (676, 28304), (680, 28292), (702, 28220), (710, 28190), (753, 28049), (756, 28040), (761, 28025), (762, 28019), (764, 28013), (789, 27905), (794, 27896), (805, 27866), (820, 27824),

Gene: Peppino_40 Start: 31250, Stop: 29859, Start Num: 370

Candidate Starts for Peppino_40:

(316, 31364), (359, 31280), (Start: 370 @31250 has 138 MA's), (419, 31103), (421, 31097), (422, 31094), (463, 30980), (474, 30953), (490, 30893), (499, 30866), (501, 30863), (538, 30767), (550, 30725), (594, 30554), (601, 30533), (612, 30506), (670, 30398), (702, 30302), (743, 30185), (747, 30167), (762, 30101), (764, 30095), (789, 29987), (810, 29933), (811, 29930), (820, 29906), (836, 29876),

Gene: PermaG_34 Start: 23404, Stop: 24831, Start Num: 217

Candidate Starts for PermaG_34:

(190, 23362), (Start: 217 @23404 has 16 MA's), (279, 23560), (420, 23758), (421, 23761), (422, 23764), (427, 23782), (465, 23869), (473, 23890), (510, 23989), (540, 24055), (591, 24157), (592, 24160), (612, 24205), (622, 24226), (633, 24253), (646, 24280), (648, 24283), (653, 24295), (659, 24310), (661, 24316), (677, 24352), (690, 24388), (693, 24400), (702, 24430), (733, 24514), (743, 24532), (744, 24535), (767, 24622), (771, 24634), (781, 24673), (789, 24709), (791, 24715), (818, 24790),

Gene: PeteyPab_71 Start: 52509, Stop: 50584, Start Num: 69

Candidate Starts for PeteyPab_71:

(Start: 33 @52602 has 1 MA's), (35, 52596), (Start: 69 @52509 has 8 MA's), (144, 52338), (167, 52284), (251, 52080), (331, 51924), (355, 51873), (357, 51870), (379, 51828), (421, 51741), (422, 51738), (446, 51666), (451, 51657), (575, 51306), (577, 51300), (586, 51267), (733, 50928), (755, 50862), (759, 50850), (764, 50832), (769, 50805), (783, 50742), (794, 50709), (820, 50637),

Gene: Phalaborwa_53 Start: 39879, Stop: 41825, Start Num: 52

Candidate Starts for Phalaborwa_53:

(52, 39879), (101, 39975), (Start: 106 @39981 has 1 MA's), (127, 40035), (151, 40095), (163, 40122), (187, 40173), (188, 40176), (208, 40215), (226, 40251), (251, 40338), (291, 40431), (299, 40446), (313, 40467), (Start: 370 @40569 has 138 MA's), (385, 40602), (394, 40626), (422, 40686), (455, 40773), (478, 40857), (532, 40989), (534, 40992), (544, 41016), (569, 41082), (577, 41100), (586, 41133), (610, 41187), (616, 41199), (626, 41217), (662, 41280), (700, 41364), (743, 41481), (753, 41529), (769, 41592), (787, 41676),

Gene: Phanita_41 Start: 30883, Stop: 29468, Start Num: 372

Candidate Starts for Phanita_41:

(Start: 372 @30883 has 8 MA's), (Start: 376 @30880 has 23 MA's), (385, 30850), (Start: 387 @30844 has 1 MA's), (400, 30811), (463, 30619), (474, 30592), (490, 30532), (499, 30505), (501, 30502), (516, 30460), (538, 30406), (550, 30364), (576, 30250), (594, 30193), (601, 30172), (612, 30145), (615, 30133), (617, 30130), (626, 30112), (658, 30031), (670, 29995), (689, 29941), (701, 29899), (710, 29869), (722, 29845), (724, 29839), (739, 29797), (753, 29728), (761, 29704), (762, 29698), (764, 29692), (766, 29680), (802, 29557), (805, 29545), (822, 29500),

Gene: Pharpay_40 Start: 25956, Stop: 27863, Start Num: 68

Candidate Starts for Pharpay_40:

(Start: 68 @25956 has 34 MA's), (96, 26019), (109, 26040), (128, 26094), (216, 26271), (231, 26316), (298, 26490), (306, 26499), (355, 26589), (378, 26646), (443, 26832), (490, 26967), (493, 26979), (510, 27012), (577, 27141), (626, 27258), (676, 27333), (753, 27567), (754, 27570), (768, 27630), (788, 27720), (802, 27750), (815, 27792), (840, 27843),

Gene: Phendrix_173 Start: 92821, Stop: 90896, Start Num: 65

Candidate Starts for Phendrix_173:

(Start: 65 @92821 has 9 MA's), (80, 92779), (135, 92665), (171, 92590), (210, 92521), (229, 92452), (390, 92179), (397, 92161), (406, 92137), (414, 92098), (470, 91918), (495, 91834), (507, 91810), (531, 91750), (536, 91738), (547, 91711), (586, 91642), (587, 91639), (656, 91474), (674, 91423), (680, 91399), (700, 91333), (712, 91294), (718, 91282), (756, 91174), (765, 91141), (769, 91120), (778, 91087), (788, 91036), (797, 91018),

Gene: Pherbot_39 Start: 30554, Stop: 29172, Start Num: 372

Candidate Starts for Pherbot_39:

(360, 30581), (Start: 372 @30554 has 8 MA's), (Start: 376 @30551 has 23 MA's), (385, 30521), (419, 30413), (421, 30407), (422, 30404), (426, 30389), (490, 30203), (492, 30194), (501, 30173), (516, 30131), (538, 30077), (594, 29864), (601, 29843), (606, 29828), (612, 29816), (617, 29801), (635, 29765), (640, 29756), (658, 29741), (670, 29705), (702, 29606), (725, 29543), (734, 29516), (751, 29441), (753, 29435), (756, 29426), (761, 29411), (762, 29405), (764, 29399), (766, 29387), (802, 29264), (805, 29252),

Gene: Pherferi_41 Start: 31114, Stop: 29726, Start Num: 370

Candidate Starts for Pherferi_41:

(120, 31765), (242, 31411), (274, 31336), (Start: 370 @31114 has 138 MA's), (419, 30970), (421, 30964), (422, 30961), (463, 30847), (474, 30820), (490, 30760), (499, 30733), (501, 30730), (538, 30634), (550, 30592), (590, 30430), (594, 30421), (601, 30400), (606, 30385), (612, 30373), (632, 30325), (670, 30265), (702, 30169), (725, 30106), (743, 30052), (762, 29968), (764, 29962), (766, 29950), (789, 29854), (810, 29800), (811, 29797), (820, 29773),

Gene: Phiderman_41 Start: 31111, Stop: 29723, Start Num: 370

Candidate Starts for Phiderman_41:

(120, 31762), (242, 31408), (274, 31333), (Start: 370 @31111 has 138 MA's), (419, 30967), (421, 30961), (422, 30958), (463, 30844), (474, 30817), (490, 30757), (499, 30730), (501, 30727), (538, 30631), (550, 30589), (590, 30427), (594, 30418), (601, 30397), (606, 30382), (612, 30370), (632,

30322), (670, 30262), (702, 30166), (725, 30103), (743, 30049), (762, 29965), (764, 29959), (766, 29947), (789, 29851), (810, 29797), (811, 29794), (820, 29770),

Gene: PhillyPhantom_40 Start: 31093, Stop: 29849, Start Num: 419

Candidate Starts for PhillyPhantom_40:

(316, 31354), (359, 31270), (Start: 370 @31240 has 138 MA's), (419, 31093), (421, 31087), (422, 31084), (463, 30970), (474, 30943), (490, 30883), (499, 30856), (501, 30853), (538, 30757), (550, 30715), (594, 30544), (601, 30523), (612, 30496), (670, 30388), (702, 30292), (743, 30175), (747, 30157), (762, 30091), (764, 30085), (766, 30073), (789, 29977), (810, 29923), (811, 29920), (820, 29896), (836, 29866),

Gene: Philon9_57 Start: 53944, Stop: 52235, Start Num: 95

Candidate Starts for Philon9_57:

(Start: 95 @53944 has 9 MA's), (Start: 99 @53932 has 2 MA's), (Start: 148 @53812 has 1 MA's), (167, 53779), (178, 53749), (181, 53743), (229, 53635), (239, 53599), (243, 53575), (248, 53566), (251, 53557), (272, 53509), (273, 53506), (276, 53500), (277, 53497), (381, 53374), (388, 53353), (419, 53293), (445, 53221), (462, 53200), (465, 53185), (466, 53182), (470, 53173), (532, 53014), (552, 52963), (575, 52951), (577, 52945), (583, 52924), (600, 52879), (624, 52834), (643, 52792), (668, 52735), (682, 52705), (683, 52702), (684, 52699), (714, 52645), (761, 52522), (765, 52504), (791, 52387), (792, 52384), (798, 52372), (855, 52252),

Gene: Phireproof_41 Start: 31120, Stop: 29732, Start Num: 370

Candidate Starts for Phireproof_41:

(274, 31342), (Start: 370 @31120 has 138 MA's), (419, 30976), (421, 30970), (422, 30967), (463, 30853), (474, 30826), (490, 30766), (499, 30739), (501, 30736), (538, 30640), (550, 30598), (590, 30436), (594, 30427), (601, 30406), (606, 30391), (612, 30379), (632, 30331), (670, 30271), (702, 30175), (725, 30112), (743, 30058), (762, 29974), (764, 29968), (766, 29956), (789, 29860), (810, 29806), (811, 29803), (820, 29779),

Gene: Phomeo_71 Start: 56408, Stop: 54342, Start Num: 36

Candidate Starts for Phomeo_71:

(2, 56906), (5, 56705), (8, 56612), (9, 56600), (11, 56582), (Start: 36 @56408 has 34 MA's), (Start: 87 @56270 has 2 MA's), (Start: 98 @56246 has 3 MA's), (188, 56042), (213, 55997), (251, 55889), (303, 55775), (306, 55772), (355, 55682), (357, 55679), (Start: 387 @55619 has 1 MA's), (441, 55481), (450, 55463), (458, 55439), (495, 55316), (532, 55211), (577, 55085), (594, 55031), (660, 54905), (662, 54896), (671, 54872), (700, 54800), (702, 54794), (710, 54764), (733, 54707), (753, 54647), (769, 54584), (787, 54503),

Gene: Phrampa_94 Start: 82318, Stop: 84156, Start Num: 63

Candidate Starts for Phrampa_94:

(Start: 63 @82318 has 11 MA's), (135, 82477), (181, 82573), (Start: 227 @82633 has 28 MA's), (236, 82663), (272, 82753), (283, 82783), (384, 82894), (486, 83233), (517, 83311), (536, 83356), (577, 83419), (586, 83452), (590, 83464), (595, 83476), (602, 83491), (603, 83494), (616, 83521), (635, 83560), (676, 83617), (678, 83623), (688, 83656), (710, 83725), (744, 83809), (775, 83926), (832, 84100), (854, 84142),

Gene: PhredFlintston_41 Start: 31114, Stop: 29726, Start Num: 370

Candidate Starts for PhredFlintston_41:

(120, 31765), (242, 31411), (274, 31336), (Start: 370 @31114 has 138 MA's), (419, 30970), (421, 30964), (422, 30961), (463, 30847), (474, 30820), (490, 30760), (499, 30733), (501, 30730), (538, 30634), (550, 30592), (590, 30430), (594, 30421), (601, 30400), (606, 30385), (612, 30373), (632, 30325), (670, 30265), (702, 30169), (725, 30106), (743, 30052), (762, 29968), (764, 29962), (766, 29950), (789, 29854), (810, 29800), (811, 29797), (820, 29773),

Gene: Phreeze_60 Start: 45650, Stop: 47707, Start Num: 56

Candidate Starts for Phreeze_60:

(Start: 56 @45650 has 54 MA's), (84, 45710), (85, 45713), (Start: 126 @45806 has 3 MA's), (130, 45818), (138, 45839), (191, 45962), (193, 45965), (197, 45974), (216, 46007), (222, 46028), (229, 46076), (273, 46181), (282, 46202), (283, 46208), (303, 46262), (398, 46448), (403, 46460), (410, 46478), (420, 46493), (422, 46499), (532, 46817), (534, 46820), (549, 46865), (573, 46916), (577, 46928), (610, 47018), (616, 47030), (632, 47063), (649, 47087), (653, 47096), (702, 47186), (712, 47219), (752, 47330), (753, 47333), (754, 47336), (755, 47339), (768, 47393), (783, 47459), (787, 47477), (857, 47654),

Gene: Phriends_41 Start: 31120, Stop: 29732, Start Num: 370

Candidate Starts for Phriends_41:

(274, 31342), (Start: 370 @31120 has 138 MA's), (419, 30976), (421, 30970), (422, 30967), (463, 30853), (474, 30826), (490, 30766), (499, 30739), (501, 30736), (506, 30730), (538, 30640), (550, 30598), (594, 30427), (606, 30391), (612, 30379), (626, 30346), (632, 30331), (670, 30271), (702, 30175), (725, 30112), (743, 30058), (762, 29974), (764, 29968), (766, 29956), (789, 29860), (810, 29806), (811, 29803), (820, 29779),

Gene: PhunaPhoke_40 Start: 25929, Stop: 27836, Start Num: 68

Candidate Starts for PhunaPhoke_40:

(Start: 68 @25929 has 34 MA's), (96, 25992), (109, 26013), (128, 26067), (216, 26244), (231, 26289), (298, 26463), (306, 26472), (355, 26562), (378, 26619), (443, 26805), (490, 26940), (493, 26952), (510, 26985), (577, 27114), (626, 27231), (676, 27306), (753, 27540), (754, 27543), (768, 27603), (788, 27693), (802, 27723), (815, 27765), (840, 27816),

Gene: PierreThree_58 Start: 52668, Stop: 51259, Start Num: 227

Candidate Starts for PierreThree_58:

(72, 53046), (89, 52995), (114, 52944), (133, 52890), (145, 52860), (Start: 158 @52827 has 3 MA's), (164, 52818), (Start: 176 @52791 has 28 MA's), (Start: 227 @52668 has 28 MA's), (239, 52623), (251, 52581), (272, 52533), (273, 52530), (276, 52524), (277, 52521), (282, 52509), (283, 52503), (306, 52455), (308, 52452), (406, 52332), (421, 52314), (441, 52251), (462, 52227), (465, 52212), (494, 52119), (532, 52041), (574, 51981), (575, 51978), (578, 51969), (583, 51951), (599, 51909), (624, 51864), (631, 51846), (684, 51729), (688, 51714), (694, 51693), (743, 51612), (744, 51609), (761, 51552), (762, 51546), (765, 51534), (777, 51483), (781, 51468), (782, 51459), (791, 51420), (797, 51408), (837, 51312), (845, 51297),

Gene: Pikmin_37 Start: 29766, Stop: 28396, Start Num: 376

Candidate Starts for Pikmin_37:

(Start: 376 @29766 has 23 MA's), (417, 29637), (423, 29616), (463, 29505), (464, 29502), (488, 29418), (490, 29412), (493, 29400), (501, 29382), (509, 29361), (538, 29286), (548, 29253), (590, 29082), (591, 29079), (594, 29073), (595, 29070), (606, 29037), (632, 28977), (670, 28917), (673, 28911), (675, 28908), (676, 28905), (701, 28821), (746, 28689), (753, 28650), (761, 28626), (762, 28620), (766, 28602), (789, 28506), (802, 28479), (805, 28467), (816, 28434), (822, 28422),

Gene: PinkFriday_25 Start: 20614, Stop: 22011, Start Num: 212

Candidate Starts for PinkFriday_25:

(Start: 212 @20614 has 74 MA's), (232, 20674), (269, 20761), (279, 20779), (320, 20866), (323, 20872), (385, 20899), (420, 20950), (422, 20956), (441, 21016), (458, 21037), (462, 21046), (473, 21082), (477, 21100), (478, 21103), (489, 21136), (495, 21157), (508, 21175), (510, 21181), (523, 21208), (537, 21235), (577, 21289), (581, 21301), (585, 21316), (593, 21340), (601, 21355), (603, 21361), (612, 21382), (627, 21415), (633, 21430), (637, 21439), (661, 21490), (690, 21562), (708, 21625), (714, 21643), (744, 21715), (749, 21739), (753, 21745), (754, 21748), (760, 21766), (767,

21802), (789, 21889), (823, 21979), (834, 22003),

Gene: PitaDog_25 Start: 20567, Stop: 21961, Start Num: 212

Candidate Starts for PitaDog_25:

(Start: 212 @20567 has 74 MA's), (232, 20624), (279, 20729), (280, 20732), (320, 20816), (385, 20849), (420, 20900), (422, 20906), (458, 20987), (459, 20990), (462, 20996), (473, 21032), (477, 21050), (478, 21053), (489, 21086), (495, 21107), (577, 21239), (585, 21266), (601, 21305), (610, 21326), (612, 21332), (627, 21365), (633, 21380), (637, 21389), (659, 21434), (671, 21470), (690, 21512), (708, 21575), (714, 21593), (753, 21695), (754, 21698), (760, 21716), (761, 21719), (766, 21743), (767, 21752), (789, 21839), (823, 21929), (834, 21953),

Gene: Pleakley_82 Start: 56142, Stop: 54094, Start Num: 36

Candidate Starts for Pleakley_82:

(Start: 36 @56142 has 34 MA's), (94, 55989), (107, 55974), (138, 55893), (197, 55770), (213, 55740), (251, 55632), (273, 55599), (289, 55548), (306, 55515), (355, 55425), (367, 55392), (Start: 387 @55362 has 1 MA's), (421, 55287), (450, 55206), (465, 55155), (495, 55059), (508, 55026), (521, 54990), (532, 54963), (575, 54846), (577, 54840), (602, 54771), (610, 54753), (616, 54741), (689, 54579), (702, 54546), (710, 54516), (718, 54501), (733, 54459), (769, 54336), (787, 54255), (800, 54231), (819, 54171),

Gene: Pocket_40 Start: 30843, Stop: 29422, Start Num: 370

Candidate Starts for Pocket_40:

(274, 31065), (Start: 370 @30843 has 138 MA's), (419, 30699), (421, 30693), (422, 30690), (463, 30576), (474, 30549), (490, 30489), (499, 30462), (501, 30459), (538, 30363), (550, 30321), (590, 30159), (594, 30150), (601, 30129), (612, 30102), (626, 30069), (632, 30054), (664, 29979), (670, 29961), (702, 29865), (725, 29802), (743, 29748), (762, 29664), (764, 29658), (766, 29646), (783, 29571), (789, 29550), (810, 29496), (811, 29493), (820, 29469),

Gene: PokyPuppy_58 Start: 52764, Stop: 51256, Start Num: 185

Candidate Starts for PokyPuppy_58:

(72, 53043), (89, 52992), (114, 52941), (131, 52893), (133, 52887), (145, 52857), (Start: 158 @52824 has 3 MA's), (164, 52815), (Start: 176 @52788 has 28 MA's), (Start: 185 @52764 has 1 MA's), (Start: 227 @52665 has 28 MA's), (239, 52620), (251, 52578), (272, 52530), (273, 52527), (276, 52521), (277, 52518), (283, 52500), (306, 52452), (406, 52329), (421, 52311), (462, 52224), (465, 52209), (494, 52116), (510, 52089), (532, 52038), (574, 51978), (575, 51975), (578, 51966), (583, 51948), (599, 51906), (624, 51861), (684, 51726), (688, 51711), (694, 51690), (733, 51633), (744, 51606), (761, 51549), (762, 51543), (765, 51531), (777, 51480), (782, 51456), (791, 51417), (797, 51405), (798, 51402), (837, 51309), (845, 51294),

Gene: Poland_64 Start: 54025, Stop: 52493, Start Num: 176

Candidate Starts for Poland_64:

(72, 54280), (89, 54229), (133, 54124), (145, 54094), (Start: 158 @54061 has 3 MA's), (164, 54052), (Start: 176 @54025 has 28 MA's), (239, 53857), (251, 53815), (259, 53797), (272, 53767), (277, 53755), (282, 53743), (283, 53737), (288, 53716), (421, 53548), (462, 53461), (465, 53446), (470, 53434), (478, 53404), (494, 53353), (532, 53275), (544, 53251), (548, 53233), (574, 53215), (575, 53212), (578, 53203), (583, 53185), (599, 53143), (624, 53098), (631, 53080), (684, 52963), (688, 52948), (694, 52927), (743, 52846), (744, 52843), (761, 52786), (762, 52780), (765, 52768), (782, 52693), (791, 52654), (797, 52642), (798, 52639), (837, 52546), (845, 52531),

Gene: Polyzuki_72 Start: 53158, Stop: 51122, Start Num: 37

Candidate Starts for Polyzuki_72:

(12, 53326), (Start: 37 @53158 has 6 MA's), (60, 53092), (79, 53050), (213, 52765), (236, 52708), (251, 52657), (259, 52642), (298, 52552), (306, 52540), (355, 52447), (390, 52375), (422, 52306),

(446, 52234), (465, 52177), (532, 51997), (542, 51973), (565, 51910), (577, 51874), (610, 51787), (676, 51655), (688, 51616), (689, 51613), (702, 51568), (753, 51421), (769, 51358), (780, 51316), (787, 51277), (800, 51253),

Gene: PorkBelly_54 Start: 43266, Stop: 41917, Start Num: 370

Candidate Starts for PorkBelly_54:

(349, 43317), (Start: 370 @43266 has 138 MA's), (385, 43227), (402, 43188), (404, 43182), (411, 43152), (417, 43134), (422, 43116), (426, 43101), (445, 43053), (451, 43041), (470, 42984), (471, 42981), (472, 42978), (546, 42774), (562, 42702), (570, 42678), (582, 42627), (590, 42603), (597, 42585), (603, 42564), (610, 42549), (641, 42480), (657, 42465), (680, 42402), (715, 42300), (719, 42294), (732, 42264), (748, 42210), (751, 42186), (763, 42144), (794, 42018), (796, 42015), (808, 41979),

Gene: PotatoChip_72 Start: 52511, Stop: 50586, Start Num: 69

Candidate Starts for PotatoChip_72:

(Start: 33 @52604 has 1 MA's), (35, 52598), (Start: 69 @52511 has 8 MA's), (144, 52340), (167, 52286), (251, 52082), (331, 51926), (355, 51875), (357, 51872), (379, 51830), (421, 51743), (422, 51740), (446, 51668), (451, 51659), (575, 51308), (577, 51302), (586, 51269), (733, 50930), (755, 50864), (759, 50852), (764, 50834), (769, 50807), (783, 50744), (794, 50711), (820, 50639),

Gene: Potatoes_29 Start: 22153, Stop: 23553, Start Num: 212

Candidate Starts for Potatoes_29:

(Start: 212 @22153 has 74 MA's), (232, 22216), (279, 22321), (280, 22324), (320, 22408), (385, 22441), (420, 22492), (422, 22498), (458, 22579), (459, 22582), (462, 22588), (473, 22624), (477, 22642), (478, 22645), (495, 22699), (523, 22750), (577, 22831), (585, 22858), (596, 22888), (601, 22897), (612, 22924), (627, 22957), (633, 22972), (659, 23026), (666, 23047), (670, 23059), (678, 23071), (755, 23293), (758, 23302), (760, 23308), (767, 23344), (782, 23404), (789, 23431), (823, 23521),

Gene: Potty_40 Start: 25934, Stop: 27841, Start Num: 68

Candidate Starts for Potty_40:

(Start: 68 @25934 has 34 MA's), (96, 25997), (109, 26018), (128, 26072), (216, 26249), (231, 26294), (298, 26468), (306, 26477), (355, 26567), (378, 26624), (443, 26810), (490, 26945), (493, 26957), (510, 26990), (577, 27119), (626, 27236), (676, 27311), (753, 27545), (754, 27548), (768, 27608), (788, 27698), (802, 27728), (815, 27770), (840, 27821),

Gene: Poultruss_39 Start: 26280, Stop: 28187, Start Num: 68

Candidate Starts for Poultruss_39:

(Start: 68 @26280 has 34 MA's), (96, 26343), (109, 26364), (128, 26418), (216, 26595), (231, 26640), (298, 26814), (306, 26823), (355, 26913), (378, 26970), (443, 27156), (490, 27291), (493, 27303), (510, 27336), (577, 27465), (626, 27582), (754, 27894), (768, 27954), (788, 28044), (802, 28074), (815, 28116), (840, 28167),

Gene: Prager_53 Start: 39749, Stop: 41692, Start Num: 56

Candidate Starts for Prager_53:

(Start: 56 @39749 has 54 MA's), (74, 39776), (Start: 106 @39848 has 1 MA's), (127, 39902), (151, 39962), (159, 39980), (163, 39989), (187, 40040), (208, 40082), (226, 40118), (251, 40205), (291, 40298), (299, 40313), (313, 40334), (Start: 370 @40436 has 138 MA's), (385, 40469), (394, 40493), (422, 40553), (455, 40640), (476, 40715), (511, 40805), (532, 40856), (534, 40859), (569, 40949), (577, 40967), (586, 41000), (610, 41054), (616, 41066), (626, 41084), (662, 41147), (700, 41231), (743, 41348), (753, 41396), (769, 41459), (787, 41543),

Gene: Preamble_25 Start: 20577, Stop: 21971, Start Num: 212

Candidate Starts for Preamble_25:

(Start: 212 @20577 has 74 MA's), (232, 20634), (279, 20739), (280, 20742), (320, 20826), (385, 20859), (421, 20913), (422, 20916), (462, 21006), (473, 21042), (478, 21063), (489, 21096), (495, 21117), (523, 21168), (577, 21249), (585, 21276), (601, 21315), (612, 21342), (627, 21375), (633, 21390), (637, 21399), (659, 21444), (671, 21480), (701, 21561), (708, 21585), (714, 21603), (721, 21615), (744, 21675), (749, 21699), (753, 21705), (754, 21708), (760, 21726), (761, 21729), (766, 21753), (767, 21762), (789, 21849), (807, 21900), (823, 21939),

Gene: Predator_60 Start: 44295, Stop: 46307, Start Num: 56

Candidate Starts for Predator_60:

(Start: 56 @44295 has 54 MA's), (66, 44310), (81, 44349), (94, 44379), (97, 44388), (108, 44403), (128, 44457), (130, 44463), (175, 44568), (197, 44619), (208, 44640), (216, 44652), (229, 44721), (236, 44742), (256, 44802), (273, 44826), (282, 44847), (283, 44853), (398, 45093), (403, 45105), (420, 45138), (422, 45144), (458, 45246), (531, 45459), (532, 45462), (549, 45510), (573, 45561), (575, 45567), (577, 45573), (610, 45663), (616, 45675), (680, 45798), (702, 45831), (752, 45975), (756, 45987), (765, 46020), (783, 46104), (787, 46122), (788, 46125), (807, 46173), (831, 46230),

Gene: PrincePhergus_39 Start: 30573, Stop: 29191, Start Num: 372

Candidate Starts for PrincePhergus_39:

(360, 30600), (Start: 372 @30573 has 8 MA's), (Start: 376 @30570 has 23 MA's), (385, 30540), (419, 30432), (421, 30426), (422, 30423), (426, 30408), (486, 30231), (490, 30222), (492, 30213), (501, 30192), (516, 30150), (538, 30096), (594, 29883), (601, 29862), (606, 29847), (612, 29835), (617, 29820), (635, 29784), (640, 29775), (658, 29760), (670, 29724), (702, 29625), (725, 29562), (734, 29535), (751, 29460), (753, 29454), (756, 29445), (761, 29430), (762, 29424), (764, 29418), (766, 29406), (802, 29283), (805, 29271),

Gene: Puissant_62 Start: 45753, Stop: 47810, Start Num: 56

Candidate Starts for Puissant_62:

(Start: 56 @45753 has 54 MA's), (81, 45807), (85, 45816), (Start: 126 @45909 has 3 MA's), (128, 45915), (138, 45942), (193, 46068), (197, 46077), (216, 46110), (222, 46131), (229, 46179), (236, 46200), (273, 46284), (275, 46287), (282, 46305), (283, 46311), (303, 46365), (398, 46551), (403, 46563), (410, 46581), (420, 46596), (422, 46602), (532, 46920), (534, 46923), (549, 46968), (573, 47019), (577, 47031), (610, 47121), (616, 47133), (632, 47166), (649, 47190), (653, 47199), (702, 47289), (712, 47322), (752, 47433), (753, 47436), (754, 47439), (755, 47442), (768, 47496), (771, 47505), (787, 47580), (800, 47604), (807, 47631), (857, 47757),

Gene: Pumancara_25 Start: 20596, Stop: 21993, Start Num: 212

Candidate Starts for Pumancara_25:

(Start: 212 @20596 has 74 MA's), (232, 20656), (269, 20743), (279, 20761), (320, 20848), (323, 20854), (385, 20881), (420, 20932), (422, 20938), (441, 20998), (458, 21019), (462, 21028), (473, 21064), (477, 21082), (478, 21085), (489, 21118), (495, 21139), (510, 21163), (523, 21190), (537, 21217), (577, 21271), (581, 21283), (585, 21298), (593, 21322), (601, 21337), (612, 21364), (627, 21397), (633, 21412), (637, 21421), (661, 21472), (690, 21544), (701, 21583), (708, 21607), (714, 21625), (744, 21697), (749, 21721), (753, 21727), (754, 21730), (760, 21748), (767, 21784), (789, 21871), (803, 21910), (823, 21961), (834, 21985), (835, 21988),

Gene: Pumpernickel_111 Start: 80095, Stop: 78248, Start Num: 65

Candidate Starts for Pumpernickel_111:

(Start: 65 @80095 has 9 MA's), (178, 79855), (179, 79852), (189, 79831), (Start: 227 @79780 has 28 MA's), (268, 79672), (276, 79651), (385, 79489), (447, 79276), (470, 79210), (476, 79189), (478, 79180), (496, 79123), (507, 79102), (517, 79075), (532, 79039), (536, 79030), (541, 79018), (575, 78973), (577, 78967), (586, 78934), (636, 78823), (637, 78820), (667, 78778), (687, 78727), (730, 78607), (738, 78580), (758, 78520), (789, 78382), (792, 78376), (809, 78328), (835, 78268),

Gene: PuppyEggo_41 Start: 31121, Stop: 29733, Start Num: 370

Candidate Starts for PuppyEggo_41:

(120, 31772), (242, 31418), (274, 31343), (Start: 370 @31121 has 138 MA's), (419, 30977), (421, 30971), (422, 30968), (463, 30854), (474, 30827), (490, 30767), (499, 30740), (501, 30737), (538, 30641), (550, 30599), (594, 30428), (601, 30407), (612, 30380), (632, 30332), (670, 30272), (725, 30113), (743, 30059), (762, 29975), (764, 29969), (766, 29957), (789, 29861), (810, 29807), (811, 29804), (820, 29780),

Gene: QuadZero_39 Start: 29101, Stop: 27674, Start Num: 373

Candidate Starts for QuadZero_39:

(347, 29158), (Start: 373 @29101 has 21 MA's), (383, 29071), (385, 29065), (421, 28951), (422, 28948), (423, 28945), (499, 28711), (501, 28708), (576, 28453), (591, 28402), (594, 28396), (612, 28348), (626, 28315), (632, 28300), (670, 28201), (689, 28147), (691, 28141), (698, 28114), (725, 28042), (747, 27970), (753, 27934), (756, 27925), (761, 27910), (762, 27904), (766, 27886), (776, 27844), (794, 27781), (820, 27709),

Gene: Quartz_40 Start: 30748, Stop: 29336, Start Num: 376

Candidate Starts for Quartz_40:

(Start: 372 @30751 has 8 MA's), (Start: 376 @30748 has 23 MA's), (385, 30718), (Start: 387 @30712 has 1 MA's), (400, 30679), (421, 30604), (423, 30598), (463, 30487), (474, 30460), (486, 30409), (490, 30400), (499, 30373), (501, 30370), (516, 30328), (538, 30274), (576, 30118), (591, 30067), (594, 30061), (601, 30040), (603, 30034), (606, 30025), (612, 30013), (615, 30001), (652, 29923), (670, 29863), (673, 29857), (689, 29809), (701, 29767), (725, 29704), (731, 29692), (737, 29668), (739, 29665), (753, 29596), (756, 29587), (761, 29572), (762, 29566), (764, 29560), (766, 29548), (794, 29443), (802, 29425), (805, 29413), (822, 29368),

Gene: RAP15_29 Start: 22157, Stop: 23557, Start Num: 212

Candidate Starts for RAP15_29:

(Start: 212 @22157 has 74 MA's), (232, 22220), (279, 22325), (280, 22328), (320, 22412), (385, 22445), (420, 22496), (422, 22502), (458, 22583), (459, 22586), (462, 22592), (473, 22628), (477, 22646), (478, 22649), (495, 22703), (523, 22754), (577, 22835), (585, 22862), (596, 22892), (601, 22901), (612, 22928), (627, 22961), (633, 22976), (659, 23030), (666, 23051), (670, 23063), (678, 23075), (755, 23297), (758, 23306), (760, 23312), (767, 23348), (782, 23408), (789, 23435), (823, 23525),

Gene: Raccoon_40 Start: 31223, Stop: 29832, Start Num: 370

Candidate Starts for Raccoon_40:

(314, 31325), (316, 31322), (317, 31319), (Start: 370 @31223 has 138 MA's), (419, 31076), (421, 31070), (422, 31067), (463, 30953), (474, 30926), (490, 30866), (499, 30839), (501, 30836), (538, 30740), (550, 30698), (594, 30527), (601, 30506), (612, 30479), (670, 30371), (702, 30275), (743, 30158), (747, 30140), (762, 30074), (764, 30068), (766, 30056), (789, 29960), (810, 29906), (811, 29903), (820, 29879), (836, 29849),

Gene: Racecar_102 Start: 80738, Stop: 82576, Start Num: 63

Candidate Starts for Racecar_102:

(Start: 63 @80738 has 11 MA's), (96, 80819), (135, 80897), (181, 80993), (Start: 227 @81053 has 28 MA's), (236, 81083), (283, 81203), (301, 81254), (384, 81314), (486, 81653), (509, 81710), (517, 81731), (536, 81776), (575, 81833), (577, 81839), (586, 81872), (590, 81884), (595, 81896), (616, 81941), (635, 81980), (676, 82037), (678, 82043), (688, 82076), (710, 82145), (744, 82229), (775, 82346), (832, 82520), (854, 82562),

Gene: Rachella_40 Start: 25937, Stop: 27844, Start Num: 68

Candidate Starts for Rachella_40:

(Start: 68 @25937 has 34 MA's), (96, 26000), (109, 26021), (128, 26075), (216, 26252), (231, 26297), (298, 26471), (306, 26480), (355, 26570), (378, 26627), (443, 26813), (490, 26948), (493, 26960), (510, 26993), (577, 27122), (626, 27239), (676, 27314), (753, 27548), (754, 27551), (768, 27611), (788, 27701), (802, 27731), (815, 27773), (840, 27824),

Gene: Ranch_60 Start: 39414, Stop: 41327, Start Num: 56

Candidate Starts for Ranch_60:

(50, 39399), (Start: 55 @39411 has 13 MA's), (Start: 56 @39414 has 54 MA's), (Start: 70 @39426 has 16 MA's), (86, 39474), (105, 39507), (132, 39576), (171, 39666), (184, 39693), (188, 39702), (226, 39774), (273, 39894), (295, 39957), (350, 40047), (361, 40074), (420, 40203), (427, 40227), (441, 40269), (460, 40317), (462, 40323), (465, 40338), (473, 40359), (490, 40416), (511, 40470), (529, 40512), (549, 40572), (586, 40668), (587, 40671), (685, 40848), (708, 40899), (743, 40989), (753, 41025), (755, 41031), (768, 41085), (779, 41124), (808, 41226), (813, 41241), (822, 41262),

Gene: Rapheph_41 Start: 31114, Stop: 29726, Start Num: 370

Candidate Starts for Rapheph_41:

(120, 31765), (242, 31411), (274, 31336), (Start: 370 @31114 has 138 MA's), (419, 30970), (421, 30964), (422, 30961), (463, 30847), (474, 30820), (490, 30760), (499, 30733), (501, 30730), (538, 30634), (550, 30592), (590, 30430), (594, 30421), (601, 30400), (606, 30385), (612, 30373), (632, 30325), (670, 30265), (702, 30169), (725, 30106), (743, 30052), (762, 29968), (764, 29962), (766, 29950), (789, 29854), (810, 29800), (811, 29797), (820, 29773),

Gene: Raptor_41 Start: 31121, Stop: 29733, Start Num: 370

Candidate Starts for Raptor_41:

(274, 31343), (Start: 370 @31121 has 138 MA's), (419, 30977), (421, 30971), (422, 30968), (463, 30854), (474, 30827), (490, 30767), (499, 30740), (501, 30737), (538, 30641), (550, 30599), (594, 30428), (601, 30407), (606, 30392), (612, 30380), (632, 30332), (670, 30272), (702, 30176), (725, 30113), (743, 30059), (762, 29975), (764, 29969), (766, 29957), (783, 29882), (789, 29861), (810, 29807), (811, 29804), (820, 29780),

Gene: Rasovi_33 Start: 23465, Stop: 24892, Start Num: 217

Candidate Starts for Rasovi_33:

(189, 23426), (203, 23447), (Start: 217 @23465 has 16 MA's), (421, 23822), (441, 23885), (465, 23930), (473, 23951), (591, 24218), (612, 24266), (622, 24287), (633, 24314), (646, 24341), (648, 24344), (659, 24371), (661, 24377), (677, 24413), (702, 24491), (708, 24512), (714, 24530), (721, 24542), (753, 24626), (767, 24683), (771, 24695), (781, 24734), (789, 24770), (791, 24776),

Gene: RazorC_60 Start: 39561, Stop: 41474, Start Num: 56

Candidate Starts for RazorC_60:

(Start: 55 @39558 has 13 MA's), (Start: 56 @39561 has 54 MA's), (Start: 70 @39573 has 16 MA's), (86, 39621), (105, 39654), (171, 39813), (184, 39840), (188, 39849), (226, 39921), (273, 40041), (295, 40104), (350, 40194), (361, 40221), (420, 40350), (427, 40374), (441, 40416), (446, 40428), (455, 40443), (460, 40464), (465, 40485), (473, 40506), (490, 40563), (495, 40581), (511, 40617), (529, 40659), (549, 40719), (586, 40815), (587, 40818), (685, 40995), (708, 41046), (743, 41136), (753, 41172), (755, 41178), (768, 41232), (779, 41271), (808, 41373), (813, 41388), (822, 41409),

Gene: RcigaStruga_29 Start: 22127, Stop: 23518, Start Num: 212

Candidate Starts for RcigaStruga_29:

(Start: 212 @22127 has 74 MA's), (240, 22214), (279, 22286), (280, 22289), (306, 22355), (320, 22373), (323, 22379), (385, 22406), (422, 22463), (458, 22544), (462, 22553), (473, 22589), (477, 22607), (489, 22643), (495, 22664), (508, 22682), (523, 22715), (545, 22754), (577, 22796), (585, 22823), (593, 22847), (610, 22883), (612, 22889), (627, 22922), (633, 22937), (637, 22946), (659,

22991), (670, 23024), (671, 23027), (701, 23108), (712, 23144), (714, 23150), (721, 23162), (753, 23252), (760, 23273), (761, 23276), (766, 23300), (767, 23309), (789, 23396), (807, 23447), (823, 23486), (834, 23510),

Gene: RedRaider_79 Start: 58956, Stop: 56899, Start Num: 36

Candidate Starts for RedRaider_79:

(1, 59529), (6, 59244), (Start: 36 @58956 has 34 MA's), (197, 58581), (216, 58548), (252, 58440), (282, 58389), (303, 58329), (306, 58326), (346, 58254), (355, 58236), (Start: 387 @58173 has 1 MA's), (389, 58167), (428, 58074), (450, 58017), (458, 57993), (495, 57870), (508, 57837), (532, 57774), (577, 57651), (602, 57582), (610, 57564), (662, 57459), (666, 57450), (689, 57390), (702, 57351), (710, 57321), (733, 57264), (753, 57204), (762, 57174), (769, 57141), (785, 57069), (819, 56976),

Gene: Redfield_40 Start: 31255, Stop: 29864, Start Num: 370

Candidate Starts for Redfield_40:

(314, 31357), (316, 31354), (317, 31351), (Start: 370 @31255 has 138 MA's), (419, 31108), (421, 31102), (422, 31099), (463, 30985), (474, 30958), (490, 30898), (499, 30871), (501, 30868), (538, 30772), (550, 30730), (594, 30559), (601, 30538), (612, 30511), (670, 30403), (702, 30307), (743, 30190), (747, 30172), (762, 30106), (764, 30100), (766, 30088), (789, 29992), (810, 29938), (811, 29935), (820, 29911), (836, 29881),

Gene: ReginaGlobina_100 Start: 80422, Stop: 82278, Start Num: 63

Candidate Starts for ReginaGlobina_100:

(Start: 63 @80422 has 11 MA's), (181, 80695), (239, 80800), (287, 80923), (292, 80935), (296, 80944), (392, 81040), (414, 81115), (427, 81175), (478, 81328), (492, 81373), (517, 81433), (536, 81478), (575, 81535), (577, 81541), (586, 81574), (590, 81586), (595, 81598), (665, 81715), (666, 81718), (688, 81775), (701, 81811), (704, 81823), (710, 81844), (744, 81928), (769, 82021), (775, 82045), (829, 82213), (831, 82216),

Gene: RemRem_60 Start: 51466, Stop: 49934, Start Num: 176

Candidate Starts for RemRem_60:

(72, 51721), (89, 51670), (114, 51619), (133, 51565), (145, 51535), (Start: 158 @51502 has 3 MA's), (164, 51493), (Start: 176 @51466 has 28 MA's), (239, 51298), (251, 51256), (272, 51208), (277, 51196), (282, 51184), (283, 51178), (288, 51157), (306, 51130), (421, 50989), (462, 50902), (465, 50887), (470, 50875), (478, 50845), (494, 50794), (510, 50767), (532, 50716), (548, 50674), (574, 50656), (575, 50653), (583, 50626), (599, 50584), (624, 50539), (684, 50404), (688, 50389), (694, 50368), (733, 50311), (743, 50287), (744, 50284), (761, 50227), (762, 50221), (764, 50215), (765, 50209), (777, 50158), (782, 50134), (791, 50095), (797, 50083), (798, 50080), (837, 49987), (845, 49972), (855, 49951),

Gene: RenegadeRaider_42 Start: 30486, Stop: 29236, Start Num: 419

Candidate Starts for RenegadeRaider_42:

(294, 30789), (321, 30744), (337, 30714), (360, 30660), (Start: 366 @30642 has 2 MA's), (Start: 372 @30630 has 8 MA's), (Start: 376 @30624 has 23 MA's), (385, 30594), (419, 30486), (421, 30480), (422, 30477), (426, 30462), (490, 30276), (492, 30267), (501, 30246), (516, 30204), (538, 30150), (594, 29937), (601, 29916), (606, 29901), (612, 29889), (617, 29874), (635, 29838), (640, 29829), (658, 29814), (670, 29778), (702, 29679), (725, 29616), (734, 29589), (751, 29514), (753, 29508), (756, 29499), (761, 29484), (762, 29478), (764, 29472), (802, 29337), (805, 29325), (837, 29250),

Gene: Renzie_41 Start: 31109, Stop: 29721, Start Num: 370

Candidate Starts for Renzie_41:

(274, 31331), (Start: 370 @31109 has 138 MA's), (419, 30965), (421, 30959), (422, 30956), (463, 30842), (474, 30815), (490, 30755), (499, 30728), (501, 30725), (538, 30629), (550, 30587), (594, 30416), (601, 30395), (606, 30380), (612, 30368), (632, 30320), (670, 30260), (702, 30164), (725,

30101), (743, 30047), (762, 29963), (764, 29957), (766, 29945), (783, 29870), (789, 29849), (810, 29795), (811, 29792), (820, 29768),

Gene: Reynauld_56 Start: 50676, Stop: 49183, Start Num: 194

Candidate Starts for Reynauld_56:

(Start: 194 @50676 has 3 MA's), (Start: 215 @50640 has 2 MA's), (225, 50607), (Start: 227 @50598 has 28 MA's), (229, 50589), (232, 50580), (235, 50571), (239, 50553), (264, 50493), (272, 50481), (276, 50472), (389, 50325), (419, 50268), (426, 50244), (459, 50181), (494, 50067), (531, 49992), (532, 49989), (544, 49965), (548, 49947), (575, 49926), (586, 49887), (590, 49875), (591, 49872), (682, 49695), (692, 49659), (765, 49446), (774, 49404), (789, 49338), (815, 49263), (822, 49248),

Gene: Riduram_61 Start: 39137, Stop: 41050, Start Num: 56

Candidate Starts for Riduram_61:

(Start: 55 @39134 has 13 MA's), (Start: 56 @39137 has 54 MA's), (Start: 70 @39149 has 16 MA's), (86, 39197), (105, 39230), (171, 39389), (184, 39416), (188, 39425), (226, 39497), (273, 39617), (295, 39680), (350, 39770), (361, 39797), (420, 39926), (427, 39950), (441, 39992), (446, 40004), (455, 40019), (460, 40040), (465, 40061), (473, 40082), (490, 40139), (495, 40157), (511, 40193), (529, 40235), (549, 40295), (586, 40391), (587, 40394), (685, 40571), (708, 40622), (743, 40712), (753, 40748), (755, 40754), (768, 40808), (779, 40847), (808, 40949), (813, 40964), (822, 40985),

Gene: Rie18_40 Start: 25493, Stop: 27400, Start Num: 68

Candidate Starts for Rie18_40:

(17, 25319), (Start: 68 @25493 has 34 MA's), (96, 25556), (109, 25577), (128, 25631), (207, 25793), (216, 25808), (231, 25853), (298, 26027), (306, 26036), (355, 26126), (357, 26129), (Start: 370 @26168 has 138 MA's), (378, 26183), (428, 26333), (443, 26369), (479, 26477), (490, 26504), (493, 26516), (510, 26549), (577, 26678), (626, 26795), (754, 27107), (768, 27167), (788, 27257), (802, 27287), (803, 27293), (815, 27329), (840, 27380),

Gene: RikSengupta_42 Start: 26725, Stop: 28659, Start Num: 70

Candidate Starts for RikSengupta_42:

(Start: 33 @26629 has 1 MA's), (66, 26719), (Start: 70 @26725 has 16 MA's), (128, 26872), (135, 26890), (216, 27049), (259, 27175), (298, 27265), (306, 27274), (355, 27364), (Start: 370 @27406 has 138 MA's), (382, 27436), (427, 27568), (493, 27754), (502, 27772), (510, 27787), (532, 27844), (573, 27904), (599, 27976), (660, 28093), (667, 28114), (692, 28180), (701, 28210), (731, 28288), (754, 28366), (768, 28426), (779, 28465), (788, 28516), (799, 28534), (842, 28642),

Gene: Riovina_26 Start: 21745, Stop: 23139, Start Num: 212

Candidate Starts for Riovina_26:

(Start: 212 @21745 has 74 MA's), (232, 21802), (269, 21889), (279, 21907), (280, 21910), (320, 21994), (385, 22027), (420, 22078), (422, 22084), (441, 22144), (462, 22174), (473, 22210), (477, 22228), (495, 22285), (508, 22303), (510, 22309), (523, 22336), (577, 22417), (585, 22444), (593, 22468), (601, 22483), (612, 22510), (627, 22543), (633, 22558), (690, 22690), (700, 22726), (708, 22753), (712, 22765), (721, 22783), (753, 22873), (755, 22879), (760, 22894), (761, 22897), (767, 22930), (782, 22990), (789, 23017), (809, 23074), (823, 23107), (834, 23131),

Gene: Riparian_68 Start: 47408, Stop: 49168, Start Num: 200

Candidate Starts for Riparian_68:

(Start: 200 @47408 has 9 MA's), (230, 47477), (270, 47573), (275, 47582), (305, 47663), (334, 47708), (420, 47909), (434, 47957), (458, 48017), (462, 48029), (480, 48095), (522, 48218), (532, 48242), (542, 48266), (577, 48470), (586, 48503), (591, 48518), (610, 48557), (611, 48560), (616, 48569), (662, 48638), (718, 48770), (753, 48893), (754, 48896), (762, 48923), (768, 48953), (770, 48959), (771, 48962), (775, 48980), (779, 48992), (822, 49127), (839, 49157),

Gene: Riverdale_29 Start: 22087, Stop: 23487, Start Num: 212

Candidate Starts for Riverdale_29:

(Start: 212 @22087 has 74 MA's), (232, 22150), (279, 22255), (280, 22258), (320, 22342), (385, 22375), (420, 22426), (422, 22432), (458, 22513), (459, 22516), (462, 22522), (473, 22558), (477, 22576), (478, 22579), (489, 22612), (495, 22633), (508, 22651), (523, 22684), (577, 22765), (585, 22792), (596, 22822), (601, 22831), (612, 22858), (627, 22891), (633, 22906), (659, 22960), (666, 22981), (670, 22993), (678, 23005), (755, 23227), (758, 23236), (760, 23242), (767, 23278), (782, 23338), (789, 23365), (823, 23455),

Gene: Riyhil_41 Start: 31124, Stop: 29736, Start Num: 370

Candidate Starts for Riyhil_41:

(274, 31346), (Start: 370 @31124 has 138 MA's), (419, 30980), (421, 30974), (422, 30971), (463, 30857), (474, 30830), (490, 30770), (499, 30743), (501, 30740), (538, 30644), (550, 30602), (594, 30431), (601, 30410), (606, 30395), (612, 30383), (632, 30335), (670, 30275), (702, 30179), (725, 30116), (743, 30062), (762, 29978), (764, 29972), (766, 29960), (789, 29864), (810, 29810), (811, 29807), (820, 29783),

Gene: Roberts_38 Start: 26376, Stop: 24544, Start Num: 65

Candidate Starts for Roberts_38:

(Start: 65 @26376 has 9 MA's), (88, 26319), (187, 26118), (239, 25983), (292, 25848), (306, 25821), (385, 25764), (390, 25749), (408, 25695), (427, 25599), (429, 25593), (433, 25578), (452, 25533), (465, 25485), (473, 25464), (477, 25446), (493, 25395), (531, 25302), (536, 25290), (577, 25227), (609, 25155), (638, 25095), (655, 25074), (688, 25008), (695, 24990), (701, 24972), (702, 24969), (713, 24933), (753, 24825), (756, 24816), (771, 24756), (782, 24708),

Gene: RobinSparkles_61 Start: 50974, Stop: 49484, Start Num: 192

Candidate Starts for RobinSparkles_61:

(Start: 192 @50974 has 5 MA's), (229, 50881), (232, 50872), (236, 50860), (239, 50845), (243, 50827), (273, 50770), (299, 50698), (301, 50695), (386, 50602), (399, 50569), (419, 50536), (420, 50533), (426, 50512), (462, 50443), (473, 50407), (504, 50320), (532, 50257), (534, 50254), (547, 50224), (587, 50152), (590, 50143), (661, 50020), (662, 50014), (730, 49882), (744, 49840), (757, 49795), (765, 49765), (849, 49513),

Gene: Robinson_41 Start: 31112, Stop: 29724, Start Num: 370

Candidate Starts for Robinson_41:

(274, 31334), (Start: 370 @31112 has 138 MA's), (419, 30968), (421, 30962), (422, 30959), (463, 30845), (474, 30818), (490, 30758), (499, 30731), (501, 30728), (538, 30632), (550, 30590), (594, 30419), (601, 30398), (606, 30383), (612, 30371), (632, 30323), (670, 30263), (702, 30167), (725, 30104), (743, 30050), (762, 29966), (764, 29960), (766, 29948), (789, 29852), (810, 29798), (811, 29795), (820, 29771),

Gene: Rockabye_105 Start: 73971, Stop: 75830, Start Num: 63

Candidate Starts for Rockabye_105:

(Start: 63 @73971 has 11 MA's), (161, 74187), (181, 74229), (184, 74235), (222, 74268), (236, 74337), (239, 74352), (251, 74388), (272, 74427), (301, 74508), (384, 74568), (476, 74871), (517, 74985), (536, 75030), (577, 75093), (586, 75126), (590, 75138), (611, 75186), (623, 75204), (665, 75270), (666, 75273), (676, 75291), (688, 75330), (710, 75399), (718, 75414), (730, 75441), (742, 75477), (744, 75483), (775, 75600), (809, 75720), (831, 75771),

Gene: Rog141_40 Start: 30803, Stop: 29415, Start Num: 370

Candidate Starts for Rog141_40:

(120, 31454), (242, 31100), (274, 31025), (Start: 370 @30803 has 138 MA's), (419, 30659), (421, 30653), (422, 30650), (463, 30536), (474, 30509), (490, 30449), (499, 30422), (501, 30419), (538,

30323), (550, 30281), (594, 30110), (601, 30089), (606, 30074), (632, 30014), (670, 29954), (702, 29858), (725, 29795), (743, 29741), (762, 29657), (764, 29651), (766, 29639), (789, 29543), (810, 29489), (811, 29486), (820, 29462),

Gene: Rooney_70 Start: 50294, Stop: 48408, Start Num: 61

Candidate Starts for Rooney_70:

(Start: 61 @50294 has 8 MA's), (Start: 70 @50279 has 16 MA's), (96, 50216), (Start: 100 @50207 has 1 MA's), (147, 50102), (165, 50063), (175, 50039), (216, 49964), (226, 49940), (284, 49781), (298, 49742), (306, 49733), (361, 49625), (406, 49517), (422, 49469), (460, 49364), (475, 49313), (493, 49253), (522, 49187), (531, 49166), (532, 49163), (586, 49058), (589, 49049), (594, 49037), (642, 48938), (708, 48821), (712, 48809), (724, 48782), (754, 48692), (759, 48677), (771, 48623), (783, 48566), (822, 48458), (831, 48440),

Gene: Rootkit7_33 Start: 23258, Stop: 24685, Start Num: 217

Candidate Starts for Rootkit7_33:

(191, 23216), (Start: 217 @23258 has 16 MA's), (397, 23576), (465, 23723), (473, 23744), (591, 24011), (612, 24059), (622, 24080), (648, 24137), (661, 24170), (677, 24206), (702, 24284), (708, 24305), (743, 24386), (744, 24389), (767, 24476), (771, 24488), (781, 24527), (789, 24563), (791, 24569), (797, 24581), (818, 24644),

Gene: Rope_66 Start: 47562, Stop: 49322, Start Num: 200

Candidate Starts for Rope_66:

(Start: 200 @47562 has 9 MA's), (230, 47631), (270, 47727), (275, 47736), (305, 47817), (334, 47862), (420, 48063), (434, 48111), (458, 48171), (462, 48183), (480, 48249), (522, 48372), (532, 48396), (542, 48420), (577, 48624), (586, 48657), (591, 48672), (610, 48711), (611, 48714), (616, 48723), (662, 48792), (718, 48924), (753, 49047), (754, 49050), (762, 49077), (768, 49107), (770, 49113), (771, 49116), (775, 49134), (779, 49146), (822, 49281), (838, 49308), (839, 49311),

Gene: RosieMae_40 Start: 30861, Stop: 29473, Start Num: 370

Candidate Starts for RosieMae_40:

(274, 31083), (Start: 370 @30861 has 138 MA's), (419, 30717), (421, 30711), (422, 30708), (462, 30603), (463, 30594), (474, 30567), (490, 30507), (499, 30480), (501, 30477), (538, 30381), (550, 30339), (594, 30168), (601, 30147), (606, 30132), (632, 30072), (670, 30012), (702, 29916), (725, 29853), (743, 29799), (762, 29715), (764, 29709), (766, 29697), (789, 29601), (810, 29547), (811, 29544), (820, 29520),

Gene: Rota_56 Start: 39801, Stop: 41717, Start Num: 55

Candidate Starts for Rota_56:

(Start: 55 @39801 has 13 MA's), (Start: 56 @39804 has 54 MA's), (Start: 70 @39816 has 16 MA's), (86, 39864), (105, 39897), (132, 39966), (171, 40056), (184, 40083), (188, 40092), (226, 40164), (251, 40251), (271, 40281), (273, 40284), (295, 40347), (350, 40437), (361, 40464), (420, 40593), (427, 40617), (441, 40659), (460, 40707), (465, 40728), (473, 40749), (490, 40806), (511, 40860), (529, 40902), (549, 40962), (586, 41058), (587, 41061), (685, 41238), (708, 41289), (742, 41376), (743, 41379), (753, 41415), (755, 41421), (768, 41475), (779, 41514), (808, 41616), (813, 41631), (822, 41652), (853, 41709),

Gene: RoyalG_59 Start: 52241, Stop: 50709, Start Num: 176

Candidate Starts for RoyalG_59:

(72, 52496), (89, 52445), (133, 52340), (145, 52310), (Start: 158 @52277 has 3 MA's), (164, 52268), (Start: 176 @52241 has 28 MA's), (Start: 227 @52118 has 28 MA's), (239, 52073), (251, 52031), (272, 51983), (273, 51980), (276, 51974), (277, 51971), (283, 51953), (288, 51932), (306, 51905), (406, 51782), (421, 51764), (462, 51677), (465, 51662), (494, 51569), (532, 51491), (544, 51467), (574, 51431), (583, 51401), (599, 51359), (624, 51314), (684, 51179), (688, 51164), (694, 51143), (744,

51059), (761, 51002), (762, 50996), (765, 50984), (777, 50933), (782, 50909), (791, 50870), (797, 50858), (798, 50855), (837, 50762), (845, 50747),

Gene: Rozby_29 Start: 22088, Stop: 23488, Start Num: 212

Candidate Starts for Rozby_29:

(Start: 212 @22088 has 74 MA's), (232, 22151), (279, 22256), (280, 22259), (320, 22343), (385, 22376), (420, 22427), (422, 22433), (458, 22514), (459, 22517), (462, 22523), (473, 22559), (477, 22577), (478, 22580), (489, 22613), (495, 22634), (508, 22652), (523, 22685), (577, 22766), (585, 22793), (596, 22823), (601, 22832), (612, 22859), (627, 22892), (633, 22907), (659, 22961), (666, 22982), (670, 22994), (678, 23006), (755, 23228), (758, 23237), (760, 23243), (767, 23279), (782, 23339), (789, 23366), (823, 23456),

Gene: Rukungu_63 Start: 41487, Stop: 43400, Start Num: 56

Candidate Starts for Rukungu_63:

(19, 41361), (22, 41370), (23, 41382), (34, 41415), (Start: 55 @41484 has 13 MA's), (Start: 56 @41487 has 54 MA's), (Start: 70 @41499 has 16 MA's), (86, 41547), (105, 41580), (132, 41649), (171, 41739), (184, 41766), (188, 41775), (226, 41847), (251, 41934), (273, 41967), (295, 42030), (350, 42120), (420, 42276), (427, 42300), (441, 42342), (460, 42390), (465, 42411), (473, 42432), (490, 42489), (511, 42543), (529, 42585), (549, 42645), (586, 42741), (587, 42744), (685, 42921), (708, 42972), (743, 43062), (753, 43098), (755, 43104), (768, 43158), (779, 43197), (808, 43299), (813, 43314), (822, 43335),

Gene: Rumi_61 Start: 39105, Stop: 41018, Start Num: 56

Candidate Starts for Rumi_61:

(Start: 55 @39102 has 13 MA's), (Start: 56 @39105 has 54 MA's), (Start: 70 @39117 has 16 MA's), (86, 39165), (105, 39198), (171, 39357), (184, 39384), (188, 39393), (226, 39465), (273, 39585), (295, 39648), (350, 39738), (361, 39765), (420, 39894), (427, 39918), (441, 39960), (446, 39972), (455, 39987), (460, 40008), (465, 40029), (473, 40050), (490, 40107), (495, 40125), (511, 40161), (529, 40203), (549, 40263), (586, 40359), (587, 40362), (685, 40539), (708, 40590), (743, 40680), (753, 40716), (755, 40722), (768, 40776), (779, 40815), (808, 40917), (813, 40932), (822, 40953),

Gene: SBlackberry_33 Start: 23236, Stop: 24663, Start Num: 217

Candidate Starts for SBlackberry_33:

(Start: 217 @23236 has 16 MA's), (397, 23554), (421, 23593), (441, 23656), (465, 23701), (473, 23722), (510, 23821), (591, 23989), (612, 24037), (622, 24058), (633, 24085), (646, 24112), (659, 24142), (660, 24145), (661, 24148), (677, 24184), (702, 24262), (733, 24346), (743, 24364), (744, 24367), (767, 24454), (771, 24466), (781, 24505), (789, 24541), (791, 24547), (807, 24592), (818, 24622),

Gene: SJReid_105 Start: 73084, Stop: 74940, Start Num: 63

Candidate Starts for SJReid_105:

(Start: 63 @73084 has 11 MA's), (181, 73342), (184, 73348), (222, 73381), (224, 73390), (236, 73450), (239, 73465), (272, 73540), (283, 73570), (301, 73621), (384, 73681), (476, 73984), (517, 74098), (536, 74143), (575, 74200), (577, 74206), (586, 74239), (590, 74251), (611, 74299), (616, 74308), (623, 74317), (666, 74386), (688, 74443), (710, 74512), (742, 74590), (744, 74596), (769, 74689), (775, 74713), (797, 74794), (809, 74833), (831, 74884),

Gene: SJay_41 Start: 31115, Stop: 29727, Start Num: 370

Candidate Starts for SJay_41:

(120, 31766), (242, 31412), (274, 31337), (Start: 370 @31115 has 138 MA's), (419, 30971), (421, 30965), (422, 30962), (463, 30848), (474, 30821), (490, 30761), (499, 30734), (501, 30731), (538, 30635), (550, 30593), (590, 30431), (594, 30422), (601, 30401), (606, 30386), (612, 30374), (632, 30326), (670, 30266), (702, 30170), (725, 30107), (743, 30053), (762, 29969), (764, 29963), (766,

29951), (783, 29876), (789, 29855), (810, 29801), (811, 29798), (820, 29774),

Gene: Sadboi_61 Start: 41296, Stop: 43209, Start Num: 56

Candidate Starts for Sadboi_61:

(Start: 55 @41293 has 13 MA's), (Start: 56 @41296 has 54 MA's), (Start: 70 @41308 has 16 MA's), (86, 41356), (105, 41389), (132, 41458), (171, 41548), (184, 41575), (188, 41584), (226, 41656), (251, 41743), (273, 41776), (295, 41839), (350, 41929), (361, 41956), (420, 42085), (427, 42109), (441, 42151), (460, 42199), (465, 42220), (473, 42241), (490, 42298), (511, 42352), (529, 42394), (549, 42454), (586, 42550), (587, 42553), (685, 42730), (708, 42781), (743, 42871), (753, 42907), (755, 42913), (768, 42967), (779, 43006), (808, 43108), (813, 43123), (822, 43144),

Gene: Salgado_95 Start: 54910, Stop: 56574, Start Num: 129

Candidate Starts for Salgado_95:

(Start: 129 @54910 has 9 MA's), (154, 54973), (179, 55033), (201, 55069), (221, 55114), (257, 55234), (293, 55327), (306, 55351), (316, 55363), (386, 55417), (405, 55468), (424, 55504), (431, 55531), (444, 55558), (466, 55600), (513, 55717), (548, 55795), (574, 55813), (589, 55864), (603, 55897), (624, 55930), (651, 55987), (662, 56014), (681, 56056), (697, 56113), (711, 56137), (729, 56167), (733, 56185), (744, 56212), (771, 56314), (778, 56341), (781, 56353), (802, 56422), (804, 56431), (814, 56461), (816, 56467), (837, 56503), (845, 56518), (852, 56533), (856, 56554),

Gene: Sam12_58 Start: 51466, Stop: 49934, Start Num: 176

Candidate Starts for Sam12_58:

(72, 51721), (89, 51670), (114, 51619), (133, 51565), (145, 51535), (Start: 158 @51502 has 3 MA's), (164, 51493), (Start: 176 @51466 has 28 MA's), (239, 51298), (251, 51256), (272, 51208), (277, 51196), (282, 51184), (283, 51178), (288, 51157), (306, 51130), (421, 50989), (462, 50902), (465, 50887), (470, 50875), (478, 50845), (494, 50794), (510, 50767), (532, 50716), (548, 50674), (574, 50656), (575, 50653), (583, 50626), (599, 50584), (624, 50539), (684, 50404), (688, 50389), (694, 50368), (733, 50311), (743, 50287), (744, 50284), (761, 50227), (762, 50221), (764, 50215), (765, 50209), (777, 50158), (782, 50134), (791, 50095), (797, 50083), (798, 50080), (837, 49987), (845, 49972), (855, 49951),

Gene: SamW_45 Start: 36746, Stop: 38122, Start Num: 370

Candidate Starts for SamW_45:

(Start: 370 @36746 has 138 MA's), (400, 36815), (406, 36833), (426, 36926), (448, 36986), (451, 36992), (453, 36995), (486, 37115), (492, 37133), (543, 37250), (579, 37388), (590, 37427), (601, 37460), (603, 37466), (610, 37481), (626, 37520), (665, 37580), (675, 37604), (690, 37640), (715, 37709), (719, 37715), (748, 37796), (769, 37892), (772, 37904), (775, 37916), (787, 37973), (789, 37979), (796, 37991), (806, 38021), (825, 38072),

Gene: Sampudon_60 Start: 41637, Stop: 43553, Start Num: 55

Candidate Starts for Sampudon_60:

(Start: 55 @41637 has 13 MA's), (Start: 56 @41640 has 54 MA's), (Start: 70 @41652 has 16 MA's), (86, 41700), (132, 41802), (171, 41892), (184, 41919), (188, 41928), (226, 42000), (273, 42120), (295, 42183), (350, 42273), (361, 42300), (420, 42429), (427, 42453), (441, 42495), (460, 42543), (465, 42564), (473, 42585), (490, 42642), (511, 42696), (529, 42738), (549, 42798), (586, 42894), (587, 42897), (685, 43074), (708, 43125), (742, 43212), (743, 43215), (753, 43251), (755, 43257), (768, 43311), (779, 43350), (808, 43452), (813, 43467), (822, 43488),

Gene: Sansa_39 Start: 31177, Stop: 29765, Start Num: 376

Candidate Starts for Sansa_39:

(Start: 376 @31177 has 23 MA's), (385, 31147), (Start: 387 @31141 has 1 MA's), (400, 31108), (463, 30916), (474, 30889), (490, 30829), (499, 30802), (501, 30799), (516, 30757), (538, 30703), (550, 30661), (576, 30547), (594, 30490), (601, 30469), (606, 30454), (612, 30442), (615, 30430), (617,

30427), (626, 30409), (658, 30328), (670, 30292), (689, 30238), (701, 30196), (710, 30166), (718, 30151), (722, 30142), (724, 30136), (739, 30094), (753, 30025), (761, 30001), (762, 29995), (764, 29989), (766, 29977), (794, 29872), (802, 29854), (805, 29842), (822, 29797),

Gene: Sapo_34 Start: 32116, Stop: 30710, Start Num: 218

Candidate Starts for Sapo_34:

(118, 32353), (119, 32350), (160, 32239), (168, 32224), (Start: 218 @32116 has 13 MA's), (239, 32038), (Start: 249 @32011 has 1 MA's), (272, 31981), (273, 31978), (427, 31771), (435, 31738), (524, 31531), (601, 31384), (606, 31369), (668, 31228), (714, 31093), (730, 31063), (731, 31060), (753, 30991), (754, 30988), (761, 30967), (768, 30931), (769, 30928), (791, 30841), (797, 30829), (823, 30742),

Gene: Saratos_40 Start: 30928, Stop: 29516, Start Num: 376

Candidate Starts for Saratos_40:

(Start: 372 @30931 has 8 MA's), (Start: 376 @30928 has 23 MA's), (385, 30898), (Start: 387 @30892 has 1 MA's), (400, 30859), (463, 30667), (474, 30640), (490, 30580), (499, 30553), (501, 30550), (506, 30544), (516, 30508), (527, 30484), (538, 30454), (550, 30412), (576, 30298), (594, 30241), (601, 30220), (606, 30205), (612, 30193), (615, 30181), (617, 30178), (626, 30160), (658, 30079), (670, 30043), (689, 29989), (701, 29947), (710, 29917), (718, 29902), (722, 29893), (724, 29887), (739, 29845), (753, 29776), (761, 29752), (762, 29746), (764, 29740), (766, 29728), (794, 29623), (802, 29605), (805, 29593), (822, 29548),

Gene: SassyC_75 Start: 51233, Stop: 49344, Start Num: 61

Candidate Starts for SassyC_75:

(Start: 61 @51233 has 8 MA's), (96, 51155), (Start: 100 @51146 has 1 MA's), (135, 51062), (147, 51041), (175, 50978), (211, 50909), (216, 50903), (226, 50879), (298, 50681), (345, 50597), (348, 50594), (361, 50564), (Start: 370 @50537 has 138 MA's), (406, 50456), (460, 50303), (475, 50252), (493, 50192), (531, 50105), (532, 50102), (586, 49997), (589, 49988), (594, 49976), (642, 49877), (679, 49838), (712, 49748), (724, 49721), (728, 49715), (754, 49631), (768, 49571), (771, 49562), (774, 49547), (783, 49505), (786, 49487), (808, 49433), (820, 49400), (831, 49379), (840, 49361),

Gene: Savage2526_29 Start: 22151, Stop: 23551, Start Num: 212

Candidate Starts for Savage2526_29:

(Start: 212 @22151 has 74 MA's), (232, 22214), (279, 22319), (280, 22322), (320, 22406), (385, 22439), (420, 22490), (422, 22496), (458, 22577), (459, 22580), (462, 22586), (473, 22622), (477, 22640), (478, 22643), (495, 22697), (523, 22748), (577, 22829), (585, 22856), (596, 22886), (601, 22895), (612, 22922), (627, 22955), (633, 22970), (659, 23024), (666, 23045), (670, 23057), (678, 23069), (755, 23291), (758, 23300), (760, 23306), (767, 23342), (782, 23402), (789, 23429), (823, 23519),

Gene: Schimmels22_39 Start: 29851, Stop: 28466, Start Num: 373

Candidate Starts for Schimmels22_39:

(Start: 373 @29851 has 21 MA's), (463, 29575), (473, 29554), (499, 29461), (501, 29458), (509, 29437), (516, 29416), (550, 29320), (594, 29149), (602, 29125), (606, 29113), (612, 29101), (615, 29089), (617, 29086), (626, 29068), (632, 29053), (659, 29026), (670, 28993), (680, 28969), (702, 28897), (710, 28867), (725, 28834), (753, 28726), (756, 28717), (761, 28702), (762, 28696), (764, 28690), (766, 28678), (789, 28582), (794, 28573), (805, 28543), (820, 28501),

Gene: Schnapsidee_40 Start: 31262, Stop: 29871, Start Num: 370

Candidate Starts for Schnapsidee_40:

(314, 31364), (316, 31361), (317, 31358), (Start: 370 @31262 has 138 MA's), (419, 31115), (421, 31109), (422, 31106), (463, 30992), (474, 30965), (490, 30905), (499, 30878), (501, 30875), (538, 30779), (550, 30737), (594, 30566), (601, 30545), (612, 30518), (670, 30410), (702, 30314), (743,

30197), (747, 30179), (762, 30113), (764, 30107), (766, 30095), (789, 29999), (810, 29945), (811, 29942), (820, 29918), (836, 29888),

Gene: Schubert_39 Start: 30441, Stop: 29047, Start Num: 369

Candidate Starts for Schubert_39:

(Start: 369 @30441 has 1 MA's), (419, 30297), (421, 30291), (422, 30288), (423, 30285), (474, 30147), (490, 30087), (501, 30057), (538, 29961), (550, 29919), (575, 29808), (594, 29748), (606, 29712), (612, 29700), (635, 29649), (637, 29643), (670, 29592), (676, 29580), (697, 29508), (701, 29496), (725, 29433), (753, 29325), (761, 29301), (762, 29295), (764, 29289), (766, 29277), (776, 29235), (802, 29154), (805, 29142), (822, 29097),

Gene: Scissor2024_40 Start: 29498, Stop: 28113, Start Num: 373

Candidate Starts for Scissor2024_40:

(Start: 373 @29498 has 21 MA's), (441, 29285), (463, 29222), (473, 29201), (499, 29108), (501, 29105), (509, 29084), (516, 29063), (550, 28967), (594, 28796), (602, 28772), (606, 28760), (612, 28748), (615, 28736), (617, 28733), (626, 28715), (632, 28700), (659, 28673), (670, 28640), (676, 28628), (680, 28616), (702, 28544), (718, 28499), (725, 28481), (753, 28373), (756, 28364), (761, 28349), (762, 28343), (764, 28337), (789, 28229), (794, 28220), (805, 28190), (820, 28148),

Gene: Scuba_83 Start: 56215, Stop: 54161, Start Num: 36

Candidate Starts for Scuba_83:

(7, 56488), (Start: 36 @56215 has 34 MA's), (94, 56062), (107, 56047), (138, 55966), (197, 55843), (213, 55813), (251, 55705), (273, 55672), (289, 55621), (306, 55588), (355, 55498), (367, 55465), (Start: 387 @55435 has 1 MA's), (450, 55279), (465, 55228), (495, 55132), (508, 55099), (521, 55063), (532, 55036), (577, 54913), (602, 54844), (610, 54826), (616, 54814), (689, 54652), (702, 54613), (710, 54583), (718, 54568), (753, 54466), (769, 54403), (787, 54322), (800, 54298), (819, 54238),

Gene: Scuttle_29 Start: 22156, Stop: 23556, Start Num: 212

Candidate Starts for Scuttle_29:

(Start: 212 @22156 has 74 MA's), (232, 22219), (279, 22324), (280, 22327), (320, 22411), (385, 22444), (420, 22495), (422, 22501), (458, 22582), (459, 22585), (462, 22591), (473, 22627), (477, 22645), (478, 22648), (489, 22681), (495, 22702), (523, 22753), (577, 22834), (585, 22861), (601, 22900), (612, 22927), (627, 22960), (633, 22975), (659, 23029), (666, 23050), (670, 23062), (678, 23074), (714, 23188), (755, 23296), (758, 23305), (760, 23311), (767, 23347), (782, 23407), (789, 23434), (823, 23524),

Gene: Sedgewig_40 Start: 30801, Stop: 29413, Start Num: 370

Candidate Starts for Sedgewig_40:

(120, 31452), (242, 31098), (274, 31023), (Start: 370 @30801 has 138 MA's), (419, 30657), (421, 30651), (422, 30648), (462, 30543), (463, 30534), (474, 30507), (490, 30447), (499, 30420), (501, 30417), (538, 30321), (550, 30279), (594, 30108), (601, 30087), (606, 30072), (632, 30012), (670, 29952), (702, 29856), (725, 29793), (743, 29739), (762, 29655), (764, 29649), (766, 29637), (810, 29487), (811, 29484), (820, 29460),

Gene: Send513_66 Start: 47939, Stop: 49699, Start Num: 200

Candidate Starts for Send513_66:

(Start: 200 @47939 has 9 MA's), (230, 48008), (270, 48104), (275, 48113), (305, 48194), (334, 48239), (420, 48440), (434, 48488), (458, 48548), (462, 48560), (480, 48626), (522, 48749), (532, 48773), (542, 48797), (577, 49001), (586, 49034), (591, 49049), (610, 49088), (611, 49091), (616, 49100), (662, 49169), (718, 49301), (753, 49424), (754, 49427), (762, 49454), (768, 49484), (770, 49490), (771, 49493), (775, 49511), (779, 49523), (822, 49658), (839, 49688),

Gene: Sergei_26 Start: 21732, Stop: 23129, Start Num: 212

Candidate Starts for Sergej_26:

(Start: 212 @21732 has 74 MA's), (232, 21792), (269, 21879), (279, 21897), (280, 21900), (320, 21984), (323, 21990), (385, 22017), (420, 22068), (422, 22074), (435, 22125), (441, 22134), (458, 22155), (462, 22164), (473, 22200), (478, 22221), (489, 22254), (495, 22275), (508, 22293), (510, 22299), (523, 22326), (531, 22338), (537, 22353), (577, 22407), (593, 22458), (596, 22464), (601, 22473), (603, 22479), (612, 22500), (627, 22533), (633, 22548), (637, 22557), (690, 22680), (701, 22719), (708, 22743), (712, 22755), (753, 22863), (755, 22869), (758, 22878), (760, 22884), (767, 22920), (789, 23007), (823, 23097), (834, 23121),

Gene: ShaiHulud_41 Start: 31118, Stop: 29730, Start Num: 370

Candidate Starts for ShaiHulud_41:

(120, 31769), (242, 31415), (274, 31340), (Start: 370 @31118 has 138 MA's), (419, 30974), (421, 30968), (422, 30965), (463, 30851), (474, 30824), (490, 30764), (499, 30737), (501, 30734), (538, 30638), (550, 30596), (594, 30425), (601, 30404), (612, 30377), (632, 30329), (670, 30269), (725, 30110), (743, 30056), (762, 29972), (764, 29966), (766, 29954), (789, 29858), (810, 29804), (811, 29801), (820, 29777),

Gene: ShakeNBake_70 Start: 50183, Stop: 48297, Start Num: 61

Candidate Starts for ShakeNBake_70:

(42, 50243), (Start: 61 @50183 has 8 MA's), (Start: 70 @50168 has 16 MA's), (96, 50105), (Start: 100 @50096 has 1 MA's), (109, 50084), (147, 49991), (175, 49928), (184, 49910), (216, 49853), (226, 49829), (284, 49670), (298, 49631), (306, 49622), (361, 49514), (406, 49406), (441, 49301), (475, 49202), (493, 49142), (531, 49055), (532, 49052), (586, 48947), (589, 48938), (594, 48926), (642, 48827), (679, 48788), (708, 48710), (712, 48698), (724, 48671), (754, 48581), (759, 48566), (771, 48512), (783, 48455), (831, 48329),

Gene: Shamu_41 Start: 31107, Stop: 29695, Start Num: 376

Candidate Starts for Shamu_41:

(Start: 372 @31110 has 8 MA's), (Start: 376 @31107 has 23 MA's), (385, 31077), (Start: 387 @31071 has 1 MA's), (400, 31038), (463, 30846), (474, 30819), (490, 30759), (499, 30732), (501, 30729), (516, 30687), (527, 30663), (538, 30633), (550, 30591), (576, 30477), (594, 30420), (601, 30399), (606, 30384), (612, 30372), (615, 30360), (617, 30357), (626, 30339), (658, 30258), (670, 30222), (689, 30168), (701, 30126), (710, 30096), (722, 30072), (724, 30066), (739, 30024), (753, 29955), (761, 29931), (762, 29925), (764, 29919), (766, 29907), (789, 29811), (794, 29802), (802, 29784), (805, 29772), (822, 29727),

Gene: Shee_41 Start: 31111, Stop: 29723, Start Num: 370

Candidate Starts for Shee_41:

(120, 31762), (242, 31408), (274, 31333), (Start: 370 @31111 has 138 MA's), (419, 30967), (421, 30961), (422, 30958), (463, 30844), (474, 30817), (490, 30757), (499, 30730), (501, 30727), (538, 30631), (550, 30589), (590, 30427), (594, 30418), (601, 30397), (606, 30382), (612, 30370), (632, 30322), (670, 30262), (702, 30166), (725, 30103), (743, 30049), (762, 29965), (764, 29959), (766, 29947), (789, 29851), (810, 29797), (811, 29794), (820, 29770),

Gene: Shelley_57 Start: 52086, Stop: 50674, Start Num: 227

Candidate Starts for Shelley_57:

(72, 52434), (123, 52305), (Start: 158 @52215 has 3 MA's), (Start: 227 @52086 has 28 MA's), (239, 52041), (272, 51951), (273, 51948), (276, 51942), (283, 51921), (317, 51858), (394, 51780), (406, 51750), (421, 51732), (462, 51645), (465, 51630), (478, 51588), (511, 51507), (532, 51459), (548, 51417), (574, 51399), (575, 51396), (583, 51369), (602, 51318), (624, 51282), (646, 51231), (684, 51147), (690, 51126), (761, 50970), (762, 50964), (765, 50952), (797, 50826), (845, 50712),

Gene: Shocker_54 Start: 41341, Stop: 39593, Start Num: 249

Candidate Starts for Shocker_54:

(101, 41743), (104, 41740), (223, 41455), (Start: 249 @41341 has 1 MA's), (364, 41068), (410, 40945), (420, 40927), (426, 40906), (436, 40867), (449, 40843), (457, 40825), (467, 40783), (468, 40780), (514, 40630), (528, 40597), (530, 40591), (551, 40522), (576, 40420), (587, 40381), (621, 40288), (630, 40267), (644, 40237), (645, 40231), (671, 40150), (686, 40108), (702, 40051), (712, 40018), (740, 39952), (753, 39892), (754, 39889), (756, 39883), (790, 39742), (799, 39718), (801, 39712), (802, 39706), (807, 39688), (811, 39676), (820, 39652), (833, 39625),

Gene: Shrooms_93 Start: 54534, Stop: 56189, Start Num: 129

Candidate Starts for Shrooms_93:

(Start: 129 @54534 has 9 MA's), (154, 54597), (159, 54606), (169, 54627), (199, 54690), (244, 54828), (257, 54858), (293, 54951), (316, 54987), (386, 55041), (405, 55092), (421, 55116), (424, 55128), (431, 55155), (439, 55176), (444, 55182), (466, 55224), (513, 55341), (548, 55419), (574, 55437), (589, 55488), (603, 55521), (624, 55554), (646, 55602), (662, 55638), (681, 55680), (729, 55791), (733, 55809), (744, 55836), (750, 55863), (778, 55965), (802, 56046), (804, 56055), (805, 56058), (814, 56085), (816, 56091), (837, 56127), (845, 56142), (856, 56178),

Gene: Shynx_42 Start: 31327, Stop: 32721, Start Num: 218

Candidate Starts for Shynx_42:

(Start: 218 @31327 has 13 MA's), (Start: 219 @31330 has 3 MA's), (239, 31405), (248, 31429), (272, 31459), (279, 31474), (329, 31564), (391, 31600), (441, 31699), (445, 31708), (476, 31777), (524, 31900), (591, 32035), (603, 32062), (612, 32083), (622, 32104), (648, 32161), (661, 32194), (664, 32203), (682, 32245), (701, 32311), (708, 32335), (714, 32353), (724, 32371), (744, 32425), (753, 32455), (767, 32512), (768, 32515), (781, 32563), (790, 32602), (797, 32617), (821, 32686), (829, 32704), (834, 32713),

Gene: Sienna_50 Start: 36692, Stop: 38746, Start Num: 70

Candidate Starts for Sienna_50:

(Start: 70 @36692 has 16 MA's), (78, 36716), (108, 36779), (139, 36863), (155, 36905), (250, 37127), (273, 37163), (301, 37238), (326, 37277), (351, 37319), (363, 37337), (Start: 370 @37358 has 138 MA's), (378, 37370), (402, 37430), (407, 37445), (420, 37463), (446, 37541), (455, 37556), (456, 37559), (465, 37598), (473, 37619), (510, 37721), (532, 37778), (541, 37799), (542, 37802), (547, 37814), (556, 37862), (557, 37868), (563, 37916), (566, 37949), (573, 37973), (580, 37991), (587, 38021), (635, 38144), (649, 38177), (654, 38189), (662, 38204), (680, 38243), (700, 38288), (708, 38315), (741, 38399), (759, 38462), (768, 38504), (771, 38513), (773, 38522), (783, 38570), (785, 38579), (787, 38591), (794, 38606), (809, 38648),

Gene: SilentWarrior_40 Start: 25182, Stop: 27089, Start Num: 68

Candidate Starts for SilentWarrior_40:

(17, 25008), (Start: 68 @25182 has 34 MA's), (96, 25245), (109, 25266), (128, 25320), (191, 25455), (216, 25497), (231, 25542), (298, 25716), (306, 25725), (355, 25815), (Start: 370 @25857 has 138 MA's), (378, 25872), (443, 26058), (490, 26193), (493, 26205), (510, 26238), (577, 26367), (626, 26484), (743, 26757), (754, 26796), (768, 26856), (788, 26946), (802, 26976), (815, 27018), (840, 27069),

Gene: Sinatra_40 Start: 30565, Stop: 29183, Start Num: 372

Candidate Starts for Sinatra_40:

(360, 30592), (Start: 372 @30565 has 8 MA's), (Start: 376 @30562 has 23 MA's), (385, 30532), (419, 30424), (421, 30418), (422, 30415), (426, 30400), (490, 30214), (492, 30205), (501, 30184), (516, 30142), (538, 30088), (594, 29875), (601, 29854), (606, 29839), (612, 29827), (617, 29812), (635, 29776), (640, 29767), (658, 29752), (670, 29716), (702, 29617), (725, 29554), (734, 29527), (751, 29452), (753, 29446), (756, 29437), (761, 29422), (762, 29416), (764, 29410), (766, 29398), (802, 29275), (805, 29263),

Gene: SirHarley_54 Start: 39905, Stop: 41848, Start Num: 56

Candidate Starts for SirHarley_54:

(38, 39842), (Start: 56 @39905 has 54 MA's), (74, 39932), (Start: 106 @40004 has 1 MA's), (127, 40058), (151, 40118), (163, 40145), (187, 40196), (208, 40238), (226, 40274), (251, 40361), (291, 40454), (299, 40469), (313, 40490), (Start: 370 @40592 has 138 MA's), (385, 40625), (394, 40649), (422, 40709), (455, 40796), (476, 40871), (511, 40961), (532, 41012), (534, 41015), (569, 41105), (577, 41123), (586, 41156), (616, 41222), (626, 41240), (662, 41303), (700, 41387), (743, 41504), (753, 41552), (769, 41615), (787, 41699),

Gene: SirVictor_40 Start: 30629, Stop: 29241, Start Num: 376

Candidate Starts for SirVictor_40:

(Start: 372 @30632 has 8 MA's), (Start: 376 @30629 has 23 MA's), (385, 30599), (419, 30491), (422, 30482), (437, 30428), (473, 30347), (490, 30281), (501, 30251), (517, 30206), (538, 30155), (590, 29951), (594, 29942), (606, 29903), (612, 29891), (615, 29879), (617, 29876), (635, 29840), (640, 29831), (658, 29816), (670, 29780), (676, 29768), (680, 29756), (702, 29681), (725, 29621), (753, 29513), (756, 29504), (761, 29489), (762, 29483), (764, 29477), (837, 29255),

Gene: Sixama_168 Start: 96248, Stop: 94338, Start Num: 62

Candidate Starts for Sixama_168:

(Start: 62 @96248 has 8 MA's), (72, 96227), (76, 96218), (80, 96200), (102, 96155), (110, 96140), (124, 96116), (135, 96086), (178, 95996), (207, 95951), (213, 95939), (229, 95870), (273, 95753), (283, 95726), (390, 95597), (420, 95480), (434, 95432), (462, 95363), (517, 95201), (532, 95165), (536, 95156), (542, 95141), (547, 95129), (577, 95093), (586, 95060), (614, 94985), (623, 94973), (639, 94934), (661, 94883), (718, 94721), (778, 94526), (789, 94469), (806, 94424),

Gene: Skysand_75 Start: 57318, Stop: 55261, Start Num: 36

Candidate Starts for Skysand_75:

(6, 57606), (10, 57498), (Start: 36 @57318 has 34 MA's), (197, 56943), (252, 56802), (282, 56751), (303, 56691), (306, 56688), (346, 56616), (355, 56598), (Start: 387 @56535 has 1 MA's), (389, 56529), (428, 56436), (441, 56397), (450, 56379), (458, 56355), (495, 56232), (508, 56199), (532, 56136), (577, 56013), (602, 55944), (610, 55926), (662, 55821), (689, 55752), (702, 55713), (709, 55689), (710, 55683), (733, 55626), (753, 55566), (762, 55536), (769, 55503), (819, 55338), (840, 55296),

Gene: Snakehole_40 Start: 25114, Stop: 27021, Start Num: 68

Candidate Starts for Snakehole_40:

(Start: 68 @25114 has 34 MA's), (96, 25177), (109, 25198), (128, 25252), (216, 25429), (231, 25474), (298, 25648), (306, 25657), (355, 25747), (378, 25804), (443, 25990), (490, 26125), (493, 26137), (510, 26170), (577, 26299), (626, 26416), (753, 26725), (754, 26728), (768, 26788), (788, 26878), (802, 26908), (815, 26950), (840, 27001),

Gene: SoilGremlin_42 Start: 31117, Stop: 29729, Start Num: 370

Candidate Starts for SoilGremlin_42:

(274, 31339), (Start: 370 @31117 has 138 MA's), (419, 30973), (421, 30967), (422, 30964), (463, 30850), (474, 30823), (490, 30763), (499, 30736), (501, 30733), (506, 30727), (538, 30637), (550, 30595), (594, 30424), (606, 30388), (612, 30376), (626, 30343), (632, 30328), (670, 30268), (702, 30172), (725, 30109), (743, 30055), (762, 29971), (764, 29965), (766, 29953), (789, 29857), (810, 29803), (811, 29800), (820, 29776),

Gene: SolidSnake_43 Start: 31120, Stop: 29732, Start Num: 370

Candidate Starts for SolidSnake_43:

(274, 31342), (Start: 370 @31120 has 138 MA's), (419, 30976), (421, 30970), (422, 30967), (463, 30853), (474, 30826), (490, 30766), (499, 30739), (501, 30736), (506, 30730), (538, 30640), (550,

30598), (594, 30427), (606, 30391), (612, 30379), (626, 30346), (632, 30331), (670, 30271), (702, 30175), (725, 30112), (743, 30058), (762, 29974), (764, 29968), (766, 29956), (789, 29860), (810, 29806), (811, 29803), (820, 29779),

Gene: Sombrero_60 Start: 52033, Stop: 50501, Start Num: 176

Candidate Starts for Sombrero_60:

(72, 52288), (89, 52237), (133, 52132), (145, 52102), (Start: 158 @52069 has 3 MA's), (164, 52060), (Start: 176 @52033 has 28 MA's), (239, 51865), (251, 51823), (272, 51775), (277, 51763), (282, 51751), (283, 51745), (288, 51724), (421, 51556), (462, 51469), (465, 51454), (470, 51442), (478, 51412), (494, 51361), (532, 51283), (544, 51259), (548, 51241), (574, 51223), (575, 51220), (578, 51211), (583, 51193), (624, 51106), (684, 50971), (688, 50956), (694, 50935), (743, 50854), (744, 50851), (761, 50794), (762, 50788), (765, 50776), (777, 50725), (782, 50701), (791, 50662), (797, 50650), (798, 50647), (837, 50554), (845, 50539), (855, 50518),

Gene: SonOfLevi_41 Start: 30834, Stop: 29413, Start Num: 370

Candidate Starts for SonOfLevi_41:

(274, 31056), (Start: 370 @30834 has 138 MA's), (419, 30690), (421, 30684), (422, 30681), (463, 30567), (474, 30540), (490, 30480), (499, 30453), (501, 30450), (538, 30354), (550, 30312), (590, 30150), (594, 30141), (601, 30120), (612, 30093), (626, 30060), (632, 30045), (664, 29970), (670, 29952), (702, 29856), (725, 29793), (743, 29739), (762, 29655), (764, 29649), (766, 29637), (783, 29562), (789, 29541), (810, 29487), (811, 29484), (820, 29460),

Gene: Soror1_40 Start: 31284, Stop: 29893, Start Num: 370

Candidate Starts for Soror1_40:

(241, 31572), (247, 31551), (Start: 370 @31284 has 138 MA's), (419, 31137), (421, 31131), (422, 31128), (441, 31068), (463, 31014), (474, 30987), (490, 30927), (499, 30900), (501, 30897), (538, 30801), (550, 30759), (594, 30588), (601, 30567), (670, 30432), (702, 30336), (743, 30219), (747, 30201), (762, 30135), (764, 30129), (766, 30117), (789, 30021), (810, 29967), (811, 29964), (820, 29940), (836, 29910),

Gene: Sparcetus_42 Start: 26604, Stop: 28538, Start Num: 70

Candidate Starts for Sparcetus_42:

(Start: 33 @26508 has 1 MA's), (66, 26598), (Start: 70 @26604 has 16 MA's), (128, 26751), (135, 26769), (216, 26928), (259, 27054), (298, 27144), (306, 27153), (355, 27243), (382, 27315), (427, 27447), (493, 27633), (502, 27651), (510, 27666), (532, 27723), (573, 27783), (599, 27855), (667, 27993), (692, 28059), (701, 28089), (702, 28092), (731, 28167), (754, 28245), (768, 28305), (779, 28344), (788, 28395), (799, 28413), (842, 28521),

Gene: Squibbles_58 Start: 52329, Stop: 50797, Start Num: 176

Candidate Starts for Squibbles_58:

(72, 52584), (89, 52533), (114, 52482), (133, 52428), (145, 52398), (Start: 158 @52365 has 3 MA's), (164, 52356), (Start: 176 @52329 has 28 MA's), (239, 52161), (251, 52119), (272, 52071), (277, 52059), (282, 52047), (283, 52041), (288, 52020), (306, 51993), (421, 51852), (462, 51765), (465, 51750), (470, 51738), (478, 51708), (494, 51657), (510, 51630), (532, 51579), (548, 51537), (574, 51519), (575, 51516), (583, 51489), (599, 51447), (624, 51402), (684, 51267), (688, 51252), (694, 51231), (733, 51174), (744, 51147), (761, 51090), (762, 51084), (764, 51078), (765, 51072), (777, 51021), (782, 50997), (791, 50958), (797, 50946), (798, 50943), (837, 50850), (845, 50835), (855, 50814),

Gene: Srilaccoli3_51 Start: 49904, Stop: 48411, Start Num: 194

Candidate Starts for Srilaccoli3_51:

(Start: 194 @49904 has 3 MA's), (Start: 215 @49868 has 2 MA's), (225, 49835), (Start: 227 @49826 has 28 MA's), (229, 49817), (232, 49808), (235, 49799), (239, 49781), (264, 49721), (272, 49709),

(276, 49700), (389, 49553), (426, 49472), (531, 49220), (532, 49217), (548, 49175), (575, 49154), (586, 49115), (590, 49103), (591, 49100), (608, 49070), (682, 48923), (692, 48887), (765, 48674), (774, 48632), (789, 48566), (815, 48491), (822, 48476),

Gene: StAB_50 Start: 39824, Stop: 41185, Start Num: 370

Candidate Starts for StAB_50:

(Start: 370 @39824 has 138 MA's), (400, 39893), (406, 39911), (426, 40004), (445, 40058), (448, 40064), (451, 40070), (453, 40073), (486, 40193), (492, 40211), (543, 40328), (579, 40466), (590, 40505), (601, 40538), (603, 40544), (610, 40559), (626, 40598), (665, 40658), (690, 40718), (719, 40793), (748, 40874), (769, 40970), (787, 41051), (789, 41057), (796, 41069), (806, 41099),

Gene: Stanktossa_41 Start: 31114, Stop: 29726, Start Num: 370

Candidate Starts for Stanktossa_41:

(120, 31765), (242, 31411), (274, 31336), (Start: 370 @31114 has 138 MA's), (419, 30970), (421, 30964), (422, 30961), (463, 30847), (474, 30820), (490, 30760), (499, 30733), (501, 30730), (538, 30634), (550, 30592), (575, 30481), (594, 30421), (606, 30385), (612, 30373), (626, 30340), (632, 30325), (670, 30265), (702, 30169), (725, 30106), (743, 30052), (762, 29968), (764, 29962), (766, 29950), (789, 29854), (810, 29800), (811, 29797), (820, 29773),

Gene: StarStruck_73 Start: 56760, Stop: 54685, Start Num: 36

Candidate Starts for StarStruck_73:

(Start: 36 @56760 has 34 MA's), (79, 56640), (Start: 100 @56595 has 1 MA's), (103, 56592), (213, 56349), (236, 56292), (251, 56241), (282, 56187), (306, 56124), (355, 56034), (357, 56031), (364, 56007), (Start: 387 @55971 has 1 MA's), (450, 55815), (458, 55791), (495, 55668), (532, 55557), (542, 55533), (577, 55434), (594, 55380), (623, 55326), (641, 55284), (662, 55245), (689, 55176), (700, 55143), (710, 55107), (731, 55062), (733, 55050), (753, 54990), (769, 54927), (787, 54846), (819, 54762),

Gene: SteveFrench_58 Start: 52481, Stop: 50949, Start Num: 176

Candidate Starts for SteveFrench_58:

(72, 52736), (89, 52685), (133, 52580), (145, 52550), (Start: 158 @52517 has 3 MA's), (164, 52508), (Start: 176 @52481 has 28 MA's), (Start: 227 @52358 has 28 MA's), (239, 52313), (251, 52271), (272, 52223), (273, 52220), (276, 52214), (277, 52211), (283, 52193), (288, 52172), (306, 52145), (406, 52022), (421, 52004), (462, 51917), (465, 51902), (494, 51809), (532, 51731), (544, 51707), (574, 51671), (583, 51641), (599, 51599), (624, 51554), (684, 51419), (688, 51404), (694, 51383), (744, 51299), (761, 51242), (762, 51236), (765, 51224), (777, 51173), (782, 51149), (791, 51110), (797, 51098), (798, 51095), (837, 51002), (845, 50987),

Gene: Stewart25555_92 Start: 77330, Stop: 79183, Start Num: 63

Candidate Starts for Stewart25555_92:

(Start: 63 @77330 has 11 MA's), (181, 77603), (239, 77708), (251, 77744), (269, 77774), (292, 77843), (296, 77852), (322, 77897), (414, 78023), (478, 78236), (492, 78281), (517, 78341), (536, 78386), (577, 78449), (586, 78482), (590, 78494), (595, 78506), (665, 78623), (691, 78692), (710, 78752), (744, 78836), (765, 78908), (769, 78929), (775, 78953), (829, 79121), (831, 79124),

Gene: Sticker17_57 Start: 52601, Stop: 51189, Start Num: 227

Candidate Starts for Sticker17_57:

(72, 52949), (123, 52820), (156, 52733), (Start: 158 @52730 has 3 MA's), (Start: 227 @52601 has 28 MA's), (239, 52556), (272, 52466), (273, 52463), (276, 52457), (283, 52436), (317, 52373), (406, 52265), (421, 52247), (462, 52160), (465, 52145), (478, 52103), (511, 52022), (532, 51974), (548, 51932), (574, 51914), (575, 51911), (583, 51884), (602, 51833), (624, 51797), (646, 51746), (684, 51662), (690, 51641), (761, 51485), (762, 51479), (765, 51467), (797, 51341), (845, 51227),

Gene: Stickynote_71 Start: 52712, Stop: 50787, Start Num: 69

Candidate Starts for Stickynote_71:

(Start: 33 @52805 has 1 MA's), (Start: 69 @52712 has 8 MA's), (144, 52541), (167, 52487), (251, 52283), (331, 52127), (355, 52076), (357, 52073), (379, 52031), (421, 51944), (422, 51941), (446, 51869), (451, 51860), (577, 51503), (586, 51470), (611, 51413), (733, 51131), (755, 51065), (759, 51053), (764, 51035), (765, 51029), (769, 51008), (783, 50945), (794, 50912), (808, 50873),

Gene: Stiles_49 Start: 38782, Stop: 40143, Start Num: 370

Candidate Starts for Stiles_49:

(Start: 370 @38782 has 138 MA's), (402, 38857), (404, 38863), (406, 38869), (426, 38962), (445, 39016), (448, 39022), (451, 39028), (453, 39031), (486, 39151), (492, 39169), (543, 39286), (579, 39424), (590, 39463), (601, 39496), (603, 39502), (610, 39517), (626, 39556), (665, 39616), (719, 39751), (748, 39832), (769, 39928), (787, 40009), (789, 40015), (796, 40027), (806, 40057),

Gene: StingRay_40 Start: 30819, Stop: 29431, Start Num: 370

Candidate Starts for StingRay_40:

(274, 31041), (Start: 370 @30819 has 138 MA's), (419, 30675), (421, 30669), (422, 30666), (463, 30552), (474, 30525), (490, 30465), (499, 30438), (501, 30435), (538, 30339), (550, 30297), (594, 30126), (601, 30105), (606, 30090), (632, 30030), (661, 29997), (670, 29970), (702, 29874), (725, 29811), (743, 29757), (762, 29673), (764, 29667), (766, 29655), (789, 29559), (810, 29505), (811, 29502), (820, 29478),

Gene: StirfryIV_40 Start: 30812, Stop: 29424, Start Num: 370

Candidate Starts for StirfryIV_40:

(120, 31463), (242, 31109), (274, 31034), (Start: 370 @30812 has 138 MA's), (419, 30668), (421, 30662), (422, 30659), (463, 30545), (474, 30518), (490, 30458), (499, 30431), (501, 30428), (538, 30332), (550, 30290), (594, 30119), (601, 30098), (606, 30083), (632, 30023), (670, 29963), (702, 29867), (725, 29804), (743, 29750), (762, 29666), (764, 29660), (766, 29648), (789, 29552), (810, 29498), (811, 29495), (820, 29471),

Gene: Stormbreaker8_40 Start: 31269, Stop: 29878, Start Num: 370

Candidate Starts for Stormbreaker8_40:

(241, 31557), (247, 31536), (Start: 370 @31269 has 138 MA's), (419, 31122), (421, 31116), (422, 31113), (441, 31053), (463, 30999), (474, 30972), (490, 30912), (499, 30885), (501, 30882), (538, 30786), (550, 30744), (594, 30573), (601, 30552), (670, 30417), (702, 30321), (743, 30204), (747, 30186), (762, 30120), (764, 30114), (766, 30102), (789, 30006), (810, 29952), (811, 29949), (820, 29925), (836, 29895),

Gene: Stormer_61 Start: 39106, Stop: 41022, Start Num: 55

Candidate Starts for Stormer_61:

(Start: 55 @39106 has 13 MA's), (Start: 56 @39109 has 54 MA's), (Start: 70 @39121 has 16 MA's), (86, 39169), (105, 39202), (171, 39361), (184, 39388), (188, 39397), (226, 39469), (273, 39589), (295, 39652), (350, 39742), (361, 39769), (420, 39898), (427, 39922), (441, 39964), (446, 39976), (455, 39991), (460, 40012), (465, 40033), (473, 40054), (490, 40111), (495, 40129), (511, 40165), (529, 40207), (549, 40267), (586, 40363), (587, 40366), (685, 40543), (708, 40594), (743, 40684), (753, 40720), (755, 40726), (768, 40780), (779, 40819), (808, 40921), (813, 40936), (822, 40957),

Gene: Strathdee_41 Start: 31119, Stop: 29731, Start Num: 370

Candidate Starts for Strathdee_41:

(120, 31770), (242, 31416), (274, 31341), (Start: 370 @31119 has 138 MA's), (419, 30975), (421, 30969), (422, 30966), (463, 30852), (474, 30825), (490, 30765), (499, 30738), (501, 30735), (538, 30639), (550, 30597), (594, 30426), (601, 30405), (612, 30378), (632, 30330), (670, 30270), (725, 30111), (743, 30057), (762, 29973), (764, 29967), (766, 29955), (789, 29859), (810, 29805), (811,

29802), (820, 29778),

Gene: Studio_40 Start: 27739, Stop: 25907, Start Num: 65

Candidate Starts for Studio_40:

(Start: 65 @27739 has 9 MA's), (88, 27682), (187, 27481), (239, 27346), (292, 27211), (306, 27184), (385, 27127), (390, 27112), (408, 27058), (427, 26962), (429, 26956), (433, 26941), (461, 26866), (465, 26848), (473, 26827), (477, 26809), (531, 26665), (536, 26653), (577, 26590), (609, 26518), (638, 26458), (655, 26437), (688, 26371), (691, 26362), (695, 26353), (701, 26335), (702, 26332), (713, 26296), (753, 26188), (756, 26179), (765, 26146), (771, 26119), (782, 26071),

Gene: Stuff_42 Start: 31323, Stop: 32717, Start Num: 218

Candidate Starts for Stuff_42:

(Start: 218 @31323 has 13 MA's), (Start: 219 @31326 has 3 MA's), (239, 31401), (248, 31425), (250, 31431), (272, 31455), (279, 31470), (280, 31473), (281, 31476), (311, 31545), (329, 31560), (391, 31596), (441, 31695), (458, 31716), (476, 31773), (524, 31896), (591, 32031), (603, 32058), (612, 32079), (648, 32157), (661, 32190), (664, 32199), (682, 32241), (701, 32307), (708, 32331), (714, 32349), (724, 32367), (744, 32421), (753, 32451), (767, 32508), (768, 32511), (781, 32559), (790, 32598), (797, 32613), (821, 32682), (829, 32700), (834, 32709),

Gene: Sucha_30 Start: 20665, Stop: 22092, Start Num: 217

Candidate Starts for Sucha_30:

(202, 20644), (Start: 217 @20665 has 16 MA's), (420, 21019), (421, 21022), (427, 21043), (465, 21130), (478, 21172), (606, 21454), (612, 21466), (622, 21487), (633, 21514), (646, 21541), (648, 21544), (659, 21571), (661, 21577), (677, 21613), (708, 21712), (733, 21775), (744, 21796), (761, 21850), (767, 21883), (771, 21895), (781, 21934), (789, 21970), (791, 21976), (797, 21988), (807, 22021), (818, 22051),

Gene: Sukkupi_71 Start: 54175, Stop: 52319, Start Num: 126

Candidate Starts for Sukkupi_71:

(9, 54592), (11, 54574), (16, 54499), (Start: 36 @54400 has 34 MA's), (Start: 126 @54175 has 3 MA's), (251, 53881), (273, 53848), (282, 53827), (299, 53773), (303, 53767), (306, 53764), (355, 53674), (357, 53671), (Start: 387 @53611 has 1 MA's), (450, 53455), (495, 53308), (532, 53200), (542, 53176), (577, 53074), (594, 53020), (602, 53005), (641, 52924), (662, 52885), (687, 52822), (700, 52783), (702, 52777), (710, 52747), (753, 52630), (769, 52567), (783, 52504), (787, 52486), (819, 52402),

Gene: SuperSonics_79 Start: 49055, Stop: 51088, Start Num: 62

Candidate Starts for SuperSonics_79:

(30, 48965), (Start: 62 @49055 has 8 MA's), (74, 49079), (Start: 99 @49142 has 2 MA's), (128, 49208), (150, 49262), (197, 49370), (216, 49403), (229, 49442), (Start: 237 @49466 has 1 MA's), (259, 49529), (273, 49547), (275, 49550), (282, 49568), (283, 49574), (313, 49643), (331, 49670), (339, 49682), (359, 49715), (398, 49817), (446, 49940), (458, 49970), (490, 50075), (495, 50093), (531, 50183), (532, 50186), (559, 50288), (567, 50327), (573, 50354), (577, 50366), (591, 50414), (598, 50432), (610, 50459), (616, 50471), (623, 50480), (702, 50618), (718, 50663), (752, 50768), (783, 50897), (794, 50930), (802, 50948), (820, 51002), (840, 51041),

Gene: SuperSulley_74 Start: 57198, Stop: 55111, Start Num: 36

Candidate Starts for SuperSulley_74:

(Start: 36 @57198 has 34 MA's), (79, 57078), (Start: 100 @57033 has 1 MA's), (103, 57030), (213, 56775), (251, 56667), (282, 56613), (306, 56550), (355, 56460), (357, 56457), (364, 56433), (Start: 387 @56397 has 1 MA's), (441, 56259), (450, 56241), (455, 56232), (458, 56217), (495, 56094), (521, 56010), (532, 55983), (542, 55959), (577, 55860), (594, 55806), (623, 55752), (641, 55710), (662, 55671), (689, 55602), (700, 55569), (710, 55533), (731, 55488), (733, 55476), (753, 55416), (755, 55410), (769, 55353), (819, 55188), (831, 55164),

Gene: Superfresh_41 Start: 31109, Stop: 29721, Start Num: 370

Candidate Starts for Superfresh_41:

(274, 31331), (Start: 370 @31109 has 138 MA's), (419, 30965), (421, 30959), (422, 30956), (463, 30842), (474, 30815), (490, 30755), (499, 30728), (501, 30725), (538, 30629), (550, 30587), (594, 30416), (601, 30395), (606, 30380), (612, 30368), (632, 30320), (670, 30260), (702, 30164), (725, 30101), (743, 30047), (762, 29963), (764, 29957), (766, 29945), (783, 29870), (789, 29849), (810, 29795), (811, 29792), (820, 29768),

Gene: SuperheroCarly_54 Start: 39596, Stop: 41566, Start Num: 45

Candidate Starts for SuperheroCarly_54:

(45, 39596), (49, 39611), (Start: 56 @39623 has 54 MA's), (74, 39650), (Start: 106 @39722 has 1 MA's), (127, 39776), (151, 39836), (163, 39863), (187, 39914), (208, 39956), (226, 39992), (251, 40079), (291, 40172), (299, 40187), (313, 40208), (Start: 370 @40310 has 138 MA's), (385, 40343), (394, 40367), (422, 40427), (455, 40514), (476, 40589), (511, 40679), (532, 40730), (534, 40733), (569, 40823), (577, 40841), (586, 40874), (610, 40928), (616, 40940), (626, 40958), (662, 41021), (700, 41105), (743, 41222), (753, 41270), (769, 41333), (787, 41417),

Gene: Suppi_29 Start: 22165, Stop: 23559, Start Num: 212

Candidate Starts for Suppi_29:

(Start: 212 @22165 has 74 MA's), (232, 22222), (279, 22327), (320, 22414), (420, 22498), (421, 22501), (422, 22504), (462, 22594), (473, 22630), (475, 22639), (477, 22648), (495, 22705), (508, 22723), (523, 22756), (531, 22768), (577, 22837), (585, 22864), (593, 22888), (612, 22930), (627, 22963), (633, 22978), (637, 22987), (678, 23077), (700, 23146), (708, 23173), (714, 23191), (721, 23203), (753, 23293), (755, 23299), (758, 23308), (760, 23314), (767, 23350), (789, 23437), (807, 23488), (823, 23527), (834, 23551),

Gene: Suzy_49 Start: 37573, Stop: 39624, Start Num: 70

Candidate Starts for Suzy_49:

(Start: 70 @37573 has 16 MA's), (108, 37660), (130, 37720), (139, 37744), (155, 37786), (250, 38008), (273, 38044), (351, 38200), (363, 38218), (Start: 370 @38239 has 138 MA's), (378, 38251), (402, 38311), (407, 38326), (420, 38344), (446, 38422), (455, 38437), (456, 38440), (465, 38479), (473, 38500), (532, 38659), (541, 38680), (542, 38683), (547, 38695), (556, 38743), (557, 38749), (558, 38755), (566, 38830), (580, 38872), (587, 38902), (635, 39025), (649, 39058), (654, 39070), (680, 39124), (708, 39196), (710, 39205), (741, 39280), (756, 39334), (768, 39385), (773, 39403), (783, 39451), (785, 39460), (787, 39472), (794, 39487), (809, 39529), (820, 39559),

Gene: Symere_40 Start: 30799, Stop: 29411, Start Num: 370

Candidate Starts for Symere_40:

(120, 31450), (242, 31096), (274, 31021), (Start: 370 @30799 has 138 MA's), (419, 30655), (421, 30649), (422, 30646), (462, 30541), (463, 30532), (474, 30505), (490, 30445), (499, 30418), (501, 30415), (538, 30319), (550, 30277), (594, 30106), (601, 30085), (606, 30070), (632, 30010), (670, 29950), (702, 29854), (725, 29791), (743, 29737), (762, 29653), (764, 29647), (766, 29635), (810, 29485), (811, 29482), (820, 29458),

Gene: TMaxx_40 Start: 26999, Stop: 25191, Start Num: 65

Candidate Starts for TMaxx_40:

(47, 27044), (Start: 65 @26999 has 9 MA's), (88, 26939), (124, 26876), (187, 26738), (239, 26609), (276, 26525), (385, 26387), (433, 26201), (465, 26108), (473, 26087), (536, 25916), (542, 25901), (577, 25853), (622, 25784), (625, 25778), (631, 25763), (655, 25724), (665, 25715), (687, 25661), (688, 25658), (695, 25640), (701, 25622), (756, 25466), (765, 25433), (771, 25406), (776, 25385), (809, 25268), (831, 25217),

Gene: Talia1610_101 Start: 80103, Stop: 81941, Start Num: 63

Candidate Starts for Talia1610_101:

(Start: 63 @80103 has 11 MA's), (96, 80184), (135, 80262), (181, 80358), (Start: 227 @80418 has 28 MA's), (236, 80448), (283, 80568), (301, 80619), (384, 80679), (486, 81018), (509, 81075), (517, 81096), (536, 81141), (575, 81198), (577, 81204), (586, 81237), (590, 81249), (595, 81261), (616, 81306), (635, 81345), (676, 81402), (678, 81408), (688, 81441), (710, 81510), (744, 81594), (775, 81711), (832, 81885), (854, 81927),

Gene: Talos_127 Start: 67581, Stop: 69077, Start Num: 237

Candidate Starts for Talos_127:

(Start: 205 @67509 has 1 MA's), (228, 67554), (Start: 237 @67581 has 1 MA's), (238, 67587), (243, 67611), (277, 67677), (313, 67758), (350, 67824), (Start: 387 @67881 has 1 MA's), (390, 67890), (393, 67899), (418, 67953), (442, 68028), (476, 68130), (482, 68151), (483, 68154), (500, 68205), (503, 68214), (509, 68229), (513, 68241), (533, 68289), (539, 68304), (545, 68325), (685, 68574), (693, 68586), (700, 68610), (710, 68646), (727, 68679), (733, 68697), (766, 68802), (799, 68922), (802, 68934), (822, 68991), (826, 69003), (830, 69009), (855, 69057),

Gene: TatarkaPM_41 Start: 31124, Stop: 29736, Start Num: 370

Candidate Starts for TatarkaPM_41:

(120, 31775), (242, 31421), (274, 31346), (Start: 370 @31124 has 138 MA's), (419, 30980), (421, 30974), (422, 30971), (463, 30857), (474, 30830), (490, 30770), (499, 30743), (501, 30740), (538, 30644), (550, 30602), (590, 30440), (594, 30431), (601, 30410), (606, 30395), (612, 30383), (632, 30335), (670, 30275), (702, 30179), (725, 30116), (743, 30062), (762, 29978), (764, 29972), (766, 29960), (789, 29864), (810, 29810), (811, 29807), (820, 29783),

Gene: TattModd_29 Start: 22150, Stop: 23550, Start Num: 212

Candidate Starts for TattModd_29:

(Start: 212 @22150 has 74 MA's), (232, 22213), (279, 22318), (280, 22321), (320, 22405), (385, 22438), (420, 22489), (422, 22495), (458, 22576), (459, 22579), (462, 22585), (473, 22621), (477, 22639), (478, 22642), (489, 22675), (495, 22696), (508, 22714), (523, 22747), (577, 22828), (585, 22855), (596, 22885), (601, 22894), (612, 22921), (627, 22954), (633, 22969), (659, 23023), (666, 23044), (670, 23056), (678, 23068), (755, 23290), (758, 23299), (760, 23305), (767, 23341), (782, 23401), (789, 23428), (823, 23518),

Gene: Teagan_41 Start: 31114, Stop: 29726, Start Num: 370

Candidate Starts for Teagan_41:

(120, 31765), (242, 31411), (274, 31336), (Start: 370 @31114 has 138 MA's), (419, 30970), (421, 30964), (422, 30961), (463, 30847), (474, 30820), (490, 30760), (499, 30733), (501, 30730), (538, 30634), (550, 30592), (594, 30421), (601, 30400), (612, 30373), (632, 30325), (670, 30265), (725, 30106), (743, 30052), (762, 29968), (764, 29962), (766, 29950), (789, 29854), (810, 29800), (811, 29797), (820, 29773),

Gene: Teal_57 Start: 53068, Stop: 51656, Start Num: 227

Candidate Starts for Teal_57:

(72, 53416), (123, 53287), (156, 53200), (Start: 158 @53197 has 3 MA's), (Start: 227 @53068 has 28 MA's), (239, 53023), (272, 52933), (273, 52930), (276, 52924), (283, 52903), (317, 52840), (406, 52732), (421, 52714), (462, 52627), (465, 52612), (478, 52570), (511, 52489), (532, 52441), (548, 52399), (574, 52381), (575, 52378), (583, 52351), (602, 52300), (624, 52264), (646, 52213), (684, 52129), (690, 52108), (761, 51952), (762, 51946), (765, 51934), (797, 51808), (845, 51694),

Gene: Teatealatte_58 Start: 53221, Stop: 51518, Start Num: 95

Candidate Starts for Teatealatte_58:

(Start: 95 @53221 has 9 MA's), (Start: 99 @53209 has 2 MA's), (178, 53026), (Start: 227 @52936 has 28 MA's), (229, 52927), (239, 52891), (243, 52867), (248, 52858), (251, 52849), (272, 52801), (277, 52789), (282, 52777), (308, 52720), (317, 52705), (320, 52702), (331, 52684), (Start: 387 @52648 has 1 MA's), (388, 52645), (441, 52516), (445, 52513), (465, 52477), (466, 52474), (473, 52456), (475, 52447), (478, 52435), (493, 52387), (511, 52354), (532, 52306), (544, 52282), (583, 52216), (624, 52117), (668, 52018), (683, 51985), (684, 51982), (724, 51916), (743, 51865), (744, 51862), (761, 51805), (765, 51787), (791, 51670), (792, 51667), (798, 51655), (845, 51556), (855, 51535),

Gene: TeddyBear_40 Start: 30816, Stop: 29428, Start Num: 370

Candidate Starts for TeddyBear_40:

(274, 31038), (Start: 370 @30816 has 138 MA's), (419, 30672), (421, 30666), (422, 30663), (463, 30549), (474, 30522), (490, 30462), (499, 30435), (501, 30432), (537, 30339), (538, 30336), (550, 30294), (594, 30123), (601, 30102), (606, 30087), (612, 30075), (632, 30027), (670, 29967), (702, 29871), (725, 29808), (743, 29754), (762, 29670), (764, 29664), (766, 29652), (783, 29577), (789, 29556), (810, 29502), (811, 29499), (820, 29475),

Gene: Tedro_40 Start: 25407, Stop: 27314, Start Num: 68

Candidate Starts for Tedro_40:

(Start: 68 @25407 has 34 MA's), (96, 25470), (109, 25491), (128, 25545), (216, 25722), (231, 25767), (298, 25941), (306, 25950), (355, 26040), (378, 26097), (443, 26283), (490, 26418), (493, 26430), (510, 26463), (529, 26508), (577, 26592), (626, 26709), (743, 26982), (753, 27018), (754, 27021), (768, 27081), (788, 27171), (802, 27201), (815, 27243), (840, 27294),

Gene: Teech_58 Start: 53022, Stop: 51319, Start Num: 95

Candidate Starts for Teech_58:

(Start: 95 @53022 has 9 MA's), (Start: 99 @53010 has 2 MA's), (178, 52827), (Start: 227 @52737 has 28 MA's), (229, 52728), (239, 52692), (243, 52668), (248, 52659), (251, 52650), (272, 52602), (282, 52578), (317, 52506), (331, 52485), (Start: 387 @52449 has 1 MA's), (388, 52446), (441, 52317), (445, 52314), (465, 52278), (466, 52275), (473, 52257), (475, 52248), (478, 52236), (493, 52188), (511, 52155), (532, 52107), (544, 52083), (583, 52017), (624, 51918), (668, 51819), (671, 51810), (683, 51786), (684, 51783), (724, 51717), (743, 51666), (744, 51663), (761, 51606), (765, 51588), (791, 51471), (792, 51468), (798, 51456), (845, 51357), (855, 51336),

Gene: Temper16_26 Start: 21732, Stop: 23129, Start Num: 212

Candidate Starts for Temper16_26:

(Start: 212 @21732 has 74 MA's), (232, 21792), (269, 21879), (279, 21897), (280, 21900), (320, 21984), (323, 21990), (385, 22017), (420, 22068), (422, 22074), (435, 22125), (441, 22134), (458, 22155), (462, 22164), (473, 22200), (478, 22221), (489, 22254), (495, 22275), (508, 22293), (510, 22299), (523, 22326), (531, 22338), (537, 22353), (577, 22407), (593, 22458), (596, 22464), (601, 22473), (603, 22479), (612, 22500), (627, 22533), (633, 22548), (637, 22557), (690, 22680), (701, 22719), (708, 22743), (712, 22755), (753, 22863), (755, 22869), (758, 22878), (760, 22884), (767, 22920), (789, 23007), (823, 23097), (834, 23121),

Gene: Tenda_40 Start: 30814, Stop: 29426, Start Num: 370

Candidate Starts for Tenda_40:

(274, 31036), (Start: 370 @30814 has 138 MA's), (419, 30670), (421, 30664), (422, 30661), (463, 30547), (474, 30520), (490, 30460), (499, 30433), (501, 30430), (538, 30334), (550, 30292), (594, 30121), (601, 30100), (606, 30085), (632, 30025), (670, 29965), (702, 29869), (725, 29806), (743, 29752), (762, 29668), (764, 29662), (766, 29650), (789, 29554), (810, 29500), (811, 29497), (820, 29473),

Gene: Terapin_51 Start: 36616, Stop: 38670, Start Num: 70

Candidate Starts for Terapin_51:

(Start: 70 @36616 has 16 MA's), (78, 36640), (108, 36703), (139, 36787), (155, 36829), (250, 37051), (273, 37087), (301, 37162), (326, 37201), (351, 37243), (363, 37261), (Start: 370 @37282 has 138 MA's), (378, 37294), (402, 37354), (407, 37369), (420, 37387), (446, 37465), (455, 37480), (456, 37483), (465, 37522), (473, 37543), (510, 37645), (532, 37702), (541, 37723), (542, 37726), (547, 37738), (556, 37786), (557, 37792), (563, 37840), (566, 37873), (573, 37897), (580, 37915), (587, 37945), (635, 38068), (649, 38101), (654, 38113), (662, 38128), (680, 38167), (700, 38212), (708, 38239), (741, 38323), (759, 38386), (768, 38428), (771, 38437), (773, 38446), (783, 38494), (785, 38503), (787, 38515), (794, 38530), (809, 38572),

Gene: Theresita_31 Start: 21253, Stop: 22665, Start Num: 217

Candidate Starts for Theresita_31:

(Start: 217 @21253 has 16 MA's), (273, 21397), (281, 21415), (325, 21505), (446, 21664), (460, 21682), (462, 21688), (465, 21703), (473, 21724), (478, 21745), (581, 21955), (591, 21991), (612, 22039), (622, 22060), (627, 22072), (633, 22087), (646, 22114), (653, 22129), (677, 22186), (701, 22261), (708, 22285), (721, 22315), (728, 22327), (744, 22369), (753, 22399), (767, 22456), (771, 22468), (791, 22549), (792, 22552), (802, 22576), (807, 22594), (818, 22624),

Gene: Thompsone_41 Start: 31121, Stop: 29733, Start Num: 370

Candidate Starts for Thompsone_41:

(120, 31772), (242, 31418), (274, 31343), (Start: 370 @31121 has 138 MA's), (419, 30977), (421, 30971), (422, 30968), (463, 30854), (474, 30827), (490, 30767), (499, 30740), (501, 30737), (538, 30641), (550, 30599), (594, 30428), (601, 30407), (612, 30380), (632, 30332), (670, 30272), (725, 30113), (743, 30059), (762, 29975), (764, 29969), (766, 29957), (783, 29882), (789, 29861), (810, 29807), (811, 29804), (820, 29780),

Gene: Thorongil_41 Start: 31121, Stop: 29733, Start Num: 370

Candidate Starts for Thorongil_41:

(322, 31220), (324, 31217), (326, 31214), (365, 31130), (Start: 370 @31121 has 138 MA's), (419, 30977), (421, 30971), (422, 30968), (463, 30854), (474, 30827), (490, 30767), (499, 30740), (501, 30737), (538, 30641), (550, 30599), (594, 30428), (601, 30407), (606, 30392), (612, 30380), (632, 30332), (670, 30272), (725, 30113), (743, 30059), (762, 29975), (764, 29969), (766, 29957), (783, 29882), (789, 29861), (810, 29807), (811, 29804), (820, 29780),

Gene: Thoth_53 Start: 39727, Stop: 41670, Start Num: 56

Candidate Starts for Thoth_53:

(Start: 56 @39727 has 54 MA's), (74, 39754), (Start: 106 @39826 has 1 MA's), (127, 39880), (151, 39940), (159, 39958), (163, 39967), (187, 40018), (208, 40060), (226, 40096), (251, 40183), (291, 40276), (299, 40291), (313, 40312), (Start: 370 @40414 has 138 MA's), (385, 40447), (394, 40471), (422, 40531), (455, 40618), (476, 40693), (511, 40783), (532, 40834), (534, 40837), (569, 40927), (577, 40945), (586, 40978), (610, 41032), (616, 41044), (626, 41062), (662, 41125), (700, 41209), (743, 41326), (753, 41374), (769, 41437), (787, 41521),

Gene: Thumb_62 Start: 46085, Stop: 48142, Start Num: 56

Candidate Starts for Thumb_62:

(Start: 56 @46085 has 54 MA's), (84, 46145), (85, 46148), (Start: 126 @46241 has 3 MA's), (130, 46253), (138, 46274), (191, 46397), (193, 46400), (197, 46409), (216, 46442), (222, 46463), (229, 46511), (273, 46616), (282, 46637), (283, 46643), (303, 46697), (398, 46883), (403, 46895), (410, 46913), (420, 46928), (422, 46934), (532, 47252), (534, 47255), (549, 47300), (573, 47351), (577, 47363), (610, 47453), (616, 47465), (632, 47498), (649, 47522), (653, 47531), (702, 47621), (712, 47654), (752, 47765), (753, 47768), (754, 47771), (755, 47774), (768, 47828), (783, 47894), (787, 47912), (857, 48089),

Gene: Tillicus_56 Start: 39985, Stop: 41907, Start Num: 58

Candidate Starts for Tillicus_56:

(20, 39862), (24, 39883), (31, 39904), (44, 39934), (50, 39967), (Start: 55 @39979 has 13 MA's), (Start: 58 @39985 has 1 MA's), (Start: 70 @40003 has 16 MA's), (74, 40015), (86, 40051), (105, 40084), (107, 40087), (Start: 126 @40135 has 3 MA's), (132, 40153), (171, 40243), (179, 40261), (184, 40270), (188, 40279), (226, 40351), (273, 40471), (275, 40474), (295, 40534), (307, 40552), (350, 40624), (361, 40651), (422, 40786), (427, 40804), (441, 40846), (451, 40867), (455, 40873), (465, 40915), (473, 40936), (478, 40957), (490, 40993), (511, 41050), (515, 41062), (529, 41092), (531, 41101), (549, 41152), (586, 41248), (587, 41251), (659, 41362), (679, 41410), (700, 41452), (708, 41479), (741, 41563), (765, 41647), (768, 41665), (774, 41689), (779, 41704), (787, 41752), (794, 41767), (808, 41806), (813, 41821), (822, 41842), (853, 41899),

Gene: TinSulphur_42 Start: 31120, Stop: 29732, Start Num: 370

Candidate Starts for TinSulphur_42:

(120, 31771), (242, 31417), (274, 31342), (Start: 370 @31120 has 138 MA's), (419, 30976), (421, 30970), (422, 30967), (463, 30853), (474, 30826), (490, 30766), (499, 30739), (501, 30736), (538, 30640), (550, 30598), (590, 30436), (594, 30427), (601, 30406), (606, 30391), (612, 30379), (632, 30331), (670, 30271), (702, 30175), (725, 30112), (743, 30058), (762, 29974), (764, 29968), (766, 29956), (789, 29860), (810, 29806), (811, 29803), (820, 29779),

Gene: TinyMiny_42 Start: 26527, Stop: 28557, Start Num: 33

Candidate Starts for TinyMiny_42:

(14, 26383), (Start: 33 @26527 has 1 MA's), (66, 26617), (Start: 70 @26623 has 16 MA's), (128, 26770), (135, 26788), (138, 26797), (216, 26947), (259, 27073), (298, 27163), (306, 27172), (355, 27262), (Start: 370 @27304 has 138 MA's), (427, 27466), (493, 27652), (502, 27670), (510, 27685), (532, 27742), (573, 27802), (599, 27874), (667, 28012), (692, 28078), (701, 28108), (731, 28186), (754, 28264), (768, 28324), (779, 28363), (788, 28414), (799, 28432), (842, 28540),

Gene: Tinyman4_39 Start: 29477, Stop: 28092, Start Num: 373

Candidate Starts for Tinyman4_39:

(Start: 373 @29477 has 21 MA's), (441, 29264), (463, 29201), (473, 29180), (499, 29087), (501, 29084), (509, 29063), (516, 29042), (550, 28946), (594, 28775), (602, 28751), (606, 28739), (612, 28727), (615, 28715), (617, 28712), (626, 28694), (632, 28679), (670, 28619), (676, 28607), (680, 28595), (702, 28523), (710, 28493), (725, 28460), (753, 28352), (756, 28343), (761, 28328), (762, 28322), (764, 28316), (766, 28304), (789, 28208), (794, 28199), (805, 28169), (820, 28127),

Gene: Tongui_40 Start: 25537, Stop: 27444, Start Num: 68

Candidate Starts for Tongui_40:

(17, 25363), (Start: 68 @25537 has 34 MA's), (96, 25600), (109, 25621), (128, 25675), (155, 25735), (207, 25837), (216, 25852), (231, 25897), (298, 26071), (306, 26080), (355, 26170), (357, 26173), (378, 26227), (443, 26413), (479, 26521), (490, 26548), (493, 26560), (577, 26722), (626, 26839), (754, 27151), (768, 27211), (788, 27301), (802, 27331), (815, 27373), (840, 27424),

Gene: Tracker_72 Start: 55556, Stop: 53490, Start Num: 36

Candidate Starts for Tracker_72:

(8, 55760), (9, 55748), (11, 55730), (Start: 36 @55556 has 34 MA's), (Start: 87 @55418 has 2 MA's), (Start: 98 @55394 has 3 MA's), (188, 55190), (213, 55145), (251, 55037), (303, 54923), (306, 54920), (355, 54830), (357, 54827), (Start: 387 @54767 has 1 MA's), (441, 54629), (450, 54611), (458, 54587), (495, 54464), (532, 54359), (577, 54233), (594, 54179), (660, 54053), (662, 54044), (671, 54020), (700, 53948), (702, 53942), (710, 53912), (733, 53855), (753, 53795), (769, 53732), (787, 53651),

Gene: Tredge_57 Start: 53221, Stop: 51518, Start Num: 95

Candidate Starts for Tredge_57:

(Start: 95 @53221 has 9 MA's), (Start: 99 @53209 has 2 MA's), (178, 53026), (Start: 227 @52936 has 28 MA's), (229, 52927), (239, 52891), (243, 52867), (248, 52858), (251, 52849), (272, 52801), (277, 52789), (282, 52777), (308, 52720), (317, 52705), (320, 52702), (331, 52684), (Start: 387 @52648 has 1 MA's), (388, 52645), (441, 52516), (445, 52513), (465, 52477), (466, 52474), (473, 52456), (475, 52447), (478, 52435), (493, 52387), (511, 52354), (532, 52306), (544, 52282), (583, 52216), (624, 52117), (668, 52018), (683, 51985), (684, 51982), (724, 51916), (743, 51865), (744, 51862), (761, 51805), (765, 51787), (791, 51670), (792, 51667), (798, 51655), (845, 51556), (855, 51535),

Gene: TripleC_38 Start: 29350, Stop: 27542, Start Num: 65

Candidate Starts for TripleC_38:

(47, 29395), (Start: 65 @29350 has 9 MA's), (88, 29290), (151, 29167), (187, 29089), (Start: 237 @28972 has 1 MA's), (239, 28960), (276, 28876), (385, 28738), (433, 28552), (465, 28459), (473, 28438), (509, 28333), (536, 28267), (542, 28252), (577, 28204), (622, 28135), (624, 28132), (625, 28129), (631, 28114), (655, 28075), (665, 28066), (676, 28048), (687, 28012), (688, 28009), (695, 27991), (701, 27973), (702, 27970), (712, 27937), (756, 27817), (765, 27784), (771, 27757), (782, 27709), (809, 27619), (831, 27568),

Gene: Trogglehumper_76 Start: 59717, Stop: 58170, Start Num: 180

Candidate Starts for Trogglehumper_76:

(136, 59828), (162, 59762), (Start: 180 @59717 has 1 MA's), (230, 59600), (239, 59567), (254, 59525), (258, 59519), (272, 59495), (296, 59429), (302, 59420), (304, 59417), (381, 59354), (394, 59315), (426, 59249), (461, 59183), (465, 59165), (470, 59153), (475, 59135), (490, 59087), (491, 59081), (532, 59003), (548, 58961), (574, 58943), (591, 58886), (595, 58877), (665, 58751), (683, 58709), (684, 58706), (690, 58685), (699, 58652), (720, 58595), (765, 58445), (770, 58421), (782, 58370), (809, 58280), (824, 58241), (841, 58220), (847, 58208), (849, 58205), (855, 58193),

Gene: Troll4_53 Start: 39859, Stop: 41802, Start Num: 56

Candidate Starts for Troll4_53:

(Start: 56 @39859 has 54 MA's), (74, 39886), (Start: 106 @39958 has 1 MA's), (127, 40012), (151, 40072), (159, 40090), (163, 40099), (187, 40150), (208, 40192), (226, 40228), (251, 40315), (291, 40408), (299, 40423), (313, 40444), (Start: 370 @40546 has 138 MA's), (385, 40579), (394, 40603), (422, 40663), (455, 40750), (476, 40825), (511, 40915), (532, 40966), (534, 40969), (569, 41059), (577, 41077), (586, 41110), (610, 41164), (616, 41176), (626, 41194), (662, 41257), (700, 41341), (743, 41458), (753, 41506), (769, 41569), (787, 41653),

Gene: Troy_45 Start: 36746, Stop: 38122, Start Num: 370

Candidate Starts for Troy_45:

(Start: 370 @36746 has 138 MA's), (400, 36815), (406, 36833), (426, 36926), (448, 36986), (451, 36992), (453, 36995), (486, 37115), (492, 37133), (543, 37250), (579, 37388), (590, 37427), (601, 37460), (603, 37466), (610, 37481), (626, 37520), (665, 37580), (675, 37604), (690, 37640), (715, 37709), (719, 37715), (748, 37796), (769, 37892), (772, 37904), (775, 37916), (787, 37973), (789, 37979), (796, 37991), (806, 38021), (825, 38072),

Gene: TurboVicky_33 Start: 23252, Stop: 24679, Start Num: 217

Candidate Starts for TurboVicky_33:

(191, 23210), (Start: 217 @23252 has 16 MA's), (397, 23570), (465, 23717), (473, 23738), (591, 24005), (612, 24053), (622, 24074), (648, 24131), (661, 24164), (677, 24200), (702, 24278), (708, 24299), (743, 24380), (744, 24383), (767, 24470), (771, 24482), (781, 24521), (789, 24557), (791, 24563), (797, 24575), (818, 24638),

Gene: Turuncu_75 Start: 56841, Stop: 54784, Start Num: 36

Candidate Starts for Turuncu_75:

(6, 57126), (11, 57009), (13, 56991), (Start: 36 @56841 has 34 MA's), (251, 56328), (282, 56274), (291, 56238), (306, 56211), (350, 56133), (355, 56121), (Start: 387 @56058 has 1 MA's), (389, 56052), (428, 55959), (441, 55920), (450, 55902), (495, 55755), (508, 55722), (518, 55692), (521, 55686), (532, 55659), (577, 55536), (602, 55467), (610, 55449), (662, 55344), (666, 55335), (689, 55275), (702, 55236), (710, 55206), (721, 55188), (733, 55149), (753, 55089), (762, 55059), (769, 55026), (780, 54984), (835, 54828),

Gene: TwoBits_38 Start: 29402, Stop: 28083, Start Num: 409

Candidate Starts for TwoBits_38:

(Start: 373 @29510 has 21 MA's), (383, 29480), (385, 29474), (Start: 409 @29402 has 1 MA's), (420, 29363), (421, 29360), (422, 29357), (441, 29297), (499, 29120), (501, 29117), (536, 29024), (554, 28955), (576, 28862), (594, 28805), (612, 28757), (615, 28745), (626, 28724), (659, 28643), (670, 28610), (689, 28556), (691, 28550), (702, 28514), (703, 28511), (725, 28451), (753, 28343), (756, 28334), (761, 28319), (762, 28313), (766, 28295), (794, 28190), (820, 28118),

Gene: Typher_35 Start: 23381, Stop: 24808, Start Num: 217

Candidate Starts for Typher_35:

(191, 23339), (Start: 217 @23381 has 16 MA's), (397, 23699), (441, 23801), (465, 23846), (473, 23867), (591, 24134), (612, 24182), (622, 24203), (648, 24260), (661, 24293), (677, 24329), (702, 24407), (708, 24428), (743, 24509), (744, 24512), (767, 24599), (771, 24611), (781, 24650), (789, 24686), (797, 24704), (818, 24767),

Gene: UNTPL_44 Start: 31380, Stop: 32774, Start Num: 218

Candidate Starts for UNTPL_44:

(Start: 218 @31380 has 13 MA's), (Start: 219 @31383 has 3 MA's), (239, 31458), (248, 31482), (272, 31512), (279, 31527), (329, 31617), (391, 31653), (441, 31752), (445, 31761), (476, 31830), (524, 31953), (591, 32088), (603, 32115), (612, 32136), (648, 32214), (661, 32247), (664, 32256), (682, 32298), (701, 32364), (708, 32388), (714, 32406), (724, 32424), (744, 32478), (753, 32508), (767, 32565), (768, 32568), (781, 32616), (790, 32655), (797, 32670), (821, 32739), (829, 32757), (834, 32766),

Gene: Urla_26 Start: 21745, Stop: 23142, Start Num: 212

Candidate Starts for Urla_26:

(Start: 212 @21745 has 74 MA's), (232, 21805), (279, 21910), (320, 21997), (385, 22030), (420, 22081), (422, 22087), (458, 22168), (462, 22177), (473, 22213), (477, 22231), (478, 22234), (489, 22267), (495, 22288), (541, 22369), (577, 22420), (585, 22447), (596, 22477), (601, 22486), (610, 22507), (612, 22513), (627, 22546), (633, 22561), (637, 22570), (661, 22621), (671, 22651), (701, 22732), (714, 22774), (731, 22807), (749, 22870), (758, 22891), (760, 22897), (764, 22912), (767, 22933), (789, 23020), (809, 23077), (823, 23110),

Gene: Vallejo_29 Start: 22089, Stop: 23489, Start Num: 212

Candidate Starts for Vallejo_29:

(Start: 212 @22089 has 74 MA's), (232, 22152), (279, 22257), (280, 22260), (320, 22344), (385, 22377), (420, 22428), (422, 22434), (458, 22515), (459, 22518), (462, 22524), (473, 22560), (477, 22578), (478, 22581), (489, 22614), (495, 22635), (508, 22653), (523, 22686), (577, 22767), (585, 22794), (596, 22824), (601, 22833), (612, 22860), (627, 22893), (633, 22908), (659, 22962), (666, 22983), (670, 22995), (678, 23007), (755, 23229), (758, 23238), (760, 23244), (767, 23280), (782, 23340), (789, 23367), (823, 23457),

Gene: Velene_41 Start: 31119, Stop: 29731, Start Num: 370

Candidate Starts for Velene_41:

(120, 31770), (242, 31416), (274, 31341), (Start: 370 @31119 has 138 MA's), (419, 30975), (421, 30969), (422, 30966), (463, 30852), (474, 30825), (490, 30765), (499, 30738), (501, 30735), (538,

30639), (550, 30597), (594, 30426), (601, 30405), (612, 30378), (632, 30330), (670, 30270), (725, 30111), (743, 30057), (762, 29973), (764, 29967), (766, 29955), (789, 29859), (810, 29805), (811, 29802), (820, 29778),

Gene: Virizion_75 Start: 50499, Stop: 48628, Start Num: 70

Candidate Starts for Virizion_75:

(Start: 61 @50514 has 8 MA's), (Start: 70 @50499 has 16 MA's), (96, 50436), (Start: 100 @50427 has 1 MA's), (147, 50322), (165, 50283), (175, 50259), (216, 50184), (226, 50160), (284, 50001), (298, 49962), (306, 49953), (361, 49845), (406, 49737), (422, 49689), (460, 49584), (475, 49533), (493, 49473), (522, 49407), (531, 49386), (532, 49383), (586, 49278), (589, 49269), (594, 49257), (642, 49158), (708, 49041), (712, 49029), (724, 49002), (754, 48912), (759, 48897), (771, 48843), (783, 48786), (822, 48678), (831, 48660),

Gene: Visconti_54 Start: 39739, Stop: 41682, Start Num: 56

Candidate Starts for Visconti_54:

(Start: 56 @39739 has 54 MA's), (74, 39766), (Start: 106 @39838 has 1 MA's), (127, 39892), (151, 39952), (159, 39970), (163, 39979), (187, 40030), (208, 40072), (226, 40108), (251, 40195), (291, 40288), (299, 40303), (313, 40324), (Start: 370 @40426 has 138 MA's), (385, 40459), (394, 40483), (422, 40543), (455, 40630), (476, 40705), (511, 40795), (532, 40846), (534, 40849), (569, 40939), (577, 40957), (586, 40990), (610, 41044), (616, 41056), (626, 41074), (662, 41137), (700, 41221), (743, 41338), (753, 41386), (769, 41449), (787, 41533),

Gene: Vispitious_41 Start: 31121, Stop: 29733, Start Num: 370

Candidate Starts for Vispitious_41:

(120, 31772), (242, 31418), (274, 31343), (Start: 370 @31121 has 138 MA's), (419, 30977), (421, 30971), (422, 30968), (463, 30854), (474, 30827), (490, 30767), (499, 30740), (501, 30737), (538, 30641), (550, 30599), (594, 30428), (601, 30407), (612, 30380), (632, 30332), (670, 30272), (725, 30113), (743, 30059), (762, 29975), (764, 29969), (766, 29957), (789, 29861), (810, 29807), (811, 29804), (820, 29780),

Gene: Vitaenoi_57 Start: 53928, Stop: 52234, Start Num: 95

Candidate Starts for Vitaenoi_57:

(Start: 95 @53928 has 9 MA's), (Start: 99 @53916 has 2 MA's), (Start: 148 @53796 has 1 MA's), (167, 53763), (178, 53733), (229, 53634), (239, 53598), (243, 53574), (248, 53565), (251, 53556), (272, 53508), (273, 53505), (276, 53499), (277, 53496), (381, 53373), (388, 53352), (419, 53292), (445, 53220), (462, 53199), (465, 53184), (466, 53181), (470, 53172), (532, 53013), (552, 52962), (575, 52950), (577, 52944), (583, 52923), (600, 52878), (624, 52833), (643, 52791), (668, 52734), (682, 52704), (683, 52701), (684, 52698), (714, 52644), (761, 52521), (765, 52503), (791, 52386), (792, 52383), (798, 52371), (855, 52251),

Gene: Vulture_26 Start: 21745, Stop: 23139, Start Num: 212

Candidate Starts for Vulture_26:

(Start: 212 @21745 has 74 MA's), (232, 21802), (269, 21889), (279, 21907), (280, 21910), (320, 21994), (385, 22027), (420, 22078), (422, 22084), (441, 22144), (462, 22174), (473, 22210), (477, 22228), (489, 22264), (495, 22285), (508, 22303), (510, 22309), (523, 22336), (577, 22417), (585, 22444), (593, 22468), (601, 22483), (612, 22510), (627, 22543), (633, 22558), (700, 22726), (708, 22753), (712, 22765), (721, 22783), (753, 22873), (755, 22879), (760, 22894), (761, 22897), (767, 22930), (782, 22990), (789, 23017), (809, 23074), (823, 23107), (834, 23131),

Gene: WaddleDee_88 Start: 75744, Stop: 77588, Start Num: 63

Candidate Starts for WaddleDee_88:

(Start: 63 @75744 has 11 MA's), (181, 76017), (239, 76125), (269, 76191), (292, 76260), (296, 76269), (385, 76344), (478, 76653), (492, 76698), (509, 76737), (517, 76758), (536, 76803), (575, 76860),

(577, 76866), (586, 76899), (590, 76911), (595, 76923), (665, 77040), (667, 77046), (701, 77136), (710, 77169), (744, 77253), (769, 77346), (775, 77370), (829, 77538), (831, 77541),

Gene: WaldoWhy_55 Start: 39836, Stop: 41779, Start Num: 56

Candidate Starts for WaldoWhy_55:

(Start: 56 @39836 has 54 MA's), (74, 39863), (Start: 106 @39935 has 1 MA's), (127, 39989), (151, 40049), (159, 40067), (163, 40076), (187, 40127), (208, 40169), (226, 40205), (251, 40292), (291, 40385), (299, 40400), (313, 40421), (Start: 370 @40523 has 138 MA's), (385, 40556), (394, 40580), (422, 40640), (455, 40727), (476, 40802), (511, 40892), (532, 40943), (534, 40946), (569, 41036), (577, 41054), (586, 41087), (610, 41141), (616, 41153), (626, 41171), (662, 41234), (700, 41318), (743, 41435), (753, 41483), (769, 41546), (787, 41630),

Gene: Waltz_91 Start: 53322, Stop: 54977, Start Num: 129

Candidate Starts for Waltz_91:

(Start: 129 @53322 has 9 MA's), (154, 53385), (159, 53394), (199, 53478), (257, 53646), (293, 53739), (316, 53775), (386, 53829), (405, 53880), (424, 53916), (431, 53943), (444, 53970), (463, 54003), (466, 54012), (513, 54129), (548, 54207), (574, 54225), (589, 54276), (603, 54309), (624, 54342), (646, 54390), (662, 54426), (681, 54468), (729, 54579), (733, 54597), (744, 54624), (750, 54651), (771, 54726), (778, 54753), (797, 54819), (802, 54834), (804, 54843), (805, 54846), (814, 54873), (816, 54879), (845, 54930), (855, 54951), (856, 54966),

Gene: Wardwill_41 Start: 29255, Stop: 27828, Start Num: 373

Candidate Starts for Wardwill_41:

(Start: 373 @29255 has 21 MA's), (383, 29225), (385, 29219), (421, 29105), (422, 29102), (423, 29099), (499, 28865), (501, 28862), (576, 28607), (583, 28583), (591, 28556), (594, 28550), (612, 28502), (626, 28469), (670, 28355), (675, 28346), (689, 28301), (691, 28295), (698, 28268), (725, 28196), (747, 28124), (753, 28088), (756, 28079), (761, 28064), (762, 28058), (766, 28040), (776, 27998), (794, 27935), (820, 27863),

Gene: Wawa_29 Start: 22126, Stop: 23526, Start Num: 212

Candidate Starts for Wawa_29:

(Start: 212 @22126 has 74 MA's), (232, 22189), (279, 22294), (280, 22297), (320, 22381), (385, 22414), (420, 22465), (422, 22471), (458, 22552), (459, 22555), (462, 22561), (473, 22597), (477, 22615), (478, 22618), (489, 22651), (495, 22672), (508, 22690), (523, 22723), (577, 22804), (585, 22831), (596, 22861), (601, 22870), (612, 22897), (627, 22930), (633, 22945), (659, 22999), (666, 23020), (670, 23032), (678, 23044), (714, 23158), (755, 23266), (758, 23275), (760, 23281), (767, 23317), (782, 23377), (789, 23404), (823, 23494),

Gene: Wayne_29 Start: 22211, Stop: 23605, Start Num: 212

Candidate Starts for Wayne_29:

(Start: 212 @22211 has 74 MA's), (232, 22268), (279, 22373), (320, 22460), (420, 22544), (421, 22547), (422, 22550), (462, 22640), (473, 22676), (475, 22685), (477, 22694), (495, 22751), (508, 22769), (523, 22802), (531, 22814), (577, 22883), (585, 22910), (593, 22934), (612, 22976), (627, 23009), (633, 23024), (637, 23033), (678, 23123), (700, 23192), (708, 23219), (714, 23237), (721, 23249), (753, 23339), (755, 23345), (758, 23354), (760, 23360), (767, 23396), (789, 23483), (807, 23534), (823, 23573), (834, 23597),

Gene: Weiss13_66 Start: 47645, Stop: 49405, Start Num: 200

Candidate Starts for Weiss13_66:

(Start: 200 @47645 has 9 MA's), (230, 47714), (270, 47810), (275, 47819), (305, 47900), (334, 47945), (420, 48146), (434, 48194), (458, 48254), (462, 48266), (480, 48332), (522, 48455), (532, 48479), (542, 48503), (577, 48707), (586, 48740), (591, 48755), (610, 48794), (611, 48797), (616, 48806), (662, 48875), (718, 49007), (753, 49130), (754, 49133), (762, 49160), (768, 49190), (770, 49196),

(771, 49199), (775, 49217), (779, 49229), (822, 49364), (839, 49394),

Gene: Wentworth_70 Start: 50269, Stop: 48383, Start Num: 61

Candidate Starts for Wentworth_70:

(Start: 37 @50335 has 6 MA's), (42, 50326), (46, 50305), (Start: 58 @50272 has 1 MA's), (Start: 61 @50269 has 8 MA's), (Start: 70 @50254 has 16 MA's), (96, 50191), (Start: 100 @50182 has 1 MA's), (109, 50170), (Start: 126 @50122 has 3 MA's), (138, 50089), (147, 50077), (155, 50056), (175, 50014), (216, 49939), (226, 49915), (298, 49717), (306, 49708), (334, 49663), (361, 49600), (406, 49492), (422, 49444), (460, 49339), (475, 49288), (493, 49228), (531, 49141), (532, 49138), (586, 49033), (589, 49024), (594, 49012), (642, 48913), (708, 48796), (712, 48784), (724, 48757), (728, 48751), (754, 48667), (771, 48598), (783, 48541), (786, 48523), (808, 48469), (831, 48415),

Gene: WestPM_37 Start: 29337, Stop: 27952, Start Num: 368

Candidate Starts for WestPM_37:

(Start: 368 @29337 has 1 MA's), (441, 29124), (463, 29061), (473, 29040), (499, 28947), (501, 28944), (509, 28923), (516, 28902), (550, 28806), (576, 28692), (583, 28668), (594, 28635), (602, 28611), (606, 28599), (612, 28587), (615, 28575), (617, 28572), (626, 28554), (659, 28512), (670, 28479), (676, 28467), (680, 28455), (702, 28383), (753, 28212), (756, 28203), (761, 28188), (762, 28182), (764, 28176), (789, 28068), (794, 28059), (805, 28029), (816, 27996), (820, 27987),

Gene: Wheelbite_90 Start: 54992, Stop: 56656, Start Num: 129

Candidate Starts for Wheelbite_90:

(Start: 129 @54992 has 9 MA's), (154, 55055), (159, 55064), (201, 55151), (221, 55196), (257, 55316), (293, 55409), (306, 55433), (316, 55445), (386, 55499), (405, 55550), (424, 55586), (431, 55613), (439, 55634), (444, 55640), (466, 55682), (513, 55799), (548, 55877), (574, 55895), (589, 55946), (603, 55979), (624, 56012), (651, 56069), (662, 56096), (681, 56138), (711, 56219), (729, 56249), (733, 56267), (744, 56294), (750, 56321), (771, 56396), (778, 56423), (781, 56435), (802, 56504), (803, 56510), (804, 56513), (805, 56516), (814, 56543), (816, 56549), (837, 56585), (845, 56600), (852, 56615), (856, 56636),

Gene: Wheezy_72 Start: 55632, Stop: 53704, Start Num: 87

Candidate Starts for Wheezy_72:

(8, 55974), (9, 55962), (11, 55944), (Start: 36 @55770 has 34 MA's), (Start: 87 @55632 has 2 MA's), (Start: 98 @55608 has 3 MA's), (188, 55404), (213, 55359), (251, 55251), (303, 55137), (306, 55134), (355, 55044), (357, 55041), (Start: 387 @54981 has 1 MA's), (441, 54843), (450, 54825), (458, 54801), (495, 54678), (532, 54573), (577, 54447), (594, 54393), (660, 54267), (662, 54258), (671, 54234), (700, 54162), (702, 54156), (710, 54126), (733, 54069), (753, 54009), (769, 53946), (787, 53865),

Gene: WhoseManz_71 Start: 52415, Stop: 50334, Start Num: 36

Candidate Starts for WhoseManz_71:

(9, 52607), (11, 52589), (16, 52514), (Start: 36 @52415 has 34 MA's), (251, 51896), (273, 51863), (282, 51842), (299, 51788), (303, 51782), (306, 51779), (355, 51689), (357, 51686), (Start: 387 @51626 has 1 MA's), (450, 51470), (495, 51323), (532, 51215), (542, 51191), (577, 51089), (594, 51035), (602, 51020), (641, 50939), (662, 50900), (687, 50837), (700, 50798), (702, 50792), (710, 50762), (753, 50645), (769, 50582), (783, 50519), (787, 50501), (819, 50417),

Gene: WildNOut_41 Start: 31117, Stop: 29729, Start Num: 370

Candidate Starts for WildNOut_41:

(120, 31768), (242, 31414), (274, 31339), (Start: 370 @31117 has 138 MA's), (419, 30973), (421, 30967), (422, 30964), (463, 30850), (474, 30823), (490, 30763), (499, 30736), (501, 30733), (538, 30637), (550, 30595), (594, 30424), (601, 30403), (612, 30376), (632, 30328), (670, 30268), (725, 30109), (743, 30055), (762, 29971), (764, 29965), (766, 29953), (789, 29857), (810, 29803), (811, 29800), (820, 29776),

Gene: Wilkos_72 Start: 50432, Stop: 48546, Start Num: 61

Candidate Starts for Wilkos_72:

(29, 50525), (Start: 37 @50498 has 6 MA's), (42, 50489), (46, 50468), (Start: 58 @50435 has 1 MA's), (Start: 61 @50432 has 8 MA's), (Start: 70 @50417 has 16 MA's), (96, 50354), (Start: 100 @50345 has 1 MA's), (109, 50333), (Start: 126 @50285 has 3 MA's), (138, 50252), (147, 50240), (155, 50219), (175, 50177), (216, 50102), (248, 49994), (273, 49949), (298, 49880), (306, 49871), (361, 49763), (422, 49607), (454, 49523), (460, 49502), (475, 49451), (493, 49391), (532, 49301), (552, 49247), (586, 49196), (589, 49187), (594, 49175), (610, 49142), (642, 49076), (712, 48947), (724, 48920), (728, 48914), (754, 48830), (771, 48761), (774, 48746), (783, 48704), (786, 48686), (808, 48632), (831, 48578),

Gene: WilliamStrong_40 Start: 30915, Stop: 29497, Start Num: 373

Candidate Starts for WilliamStrong_40:

(Start: 373 @30915 has 21 MA's), (Start: 376 @30909 has 23 MA's), (383, 30885), (Start: 409 @30807 has 1 MA's), (420, 30768), (421, 30765), (441, 30702), (461, 30651), (469, 30630), (474, 30612), (485, 30573), (499, 30525), (501, 30522), (503, 30519), (516, 30480), (536, 30429), (576, 30267), (590, 30219), (591, 30216), (594, 30210), (601, 30189), (615, 30150), (626, 30129), (670, 30015), (676, 30003), (689, 29961), (698, 29928), (702, 29919), (725, 29856), (753, 29748), (756, 29739), (761, 29724), (762, 29718), (764, 29712), (766, 29700), (802, 29577), (805, 29565),

Gene: Winzigespinne_40 Start: 30802, Stop: 29414, Start Num: 370

Candidate Starts for Winzigespinne_40:

(274, 31024), (Start: 370 @30802 has 138 MA's), (419, 30658), (421, 30652), (422, 30649), (463, 30535), (474, 30508), (490, 30448), (499, 30421), (501, 30418), (538, 30322), (550, 30280), (594, 30109), (601, 30088), (606, 30073), (612, 30061), (632, 30013), (670, 29953), (702, 29857), (725, 29794), (743, 29740), (762, 29656), (764, 29650), (766, 29638), (783, 29563), (810, 29488), (811, 29485), (820, 29461),

Gene: Woes_57 Start: 53248, Stop: 51707, Start Num: 158

Candidate Starts for Woes_57:

(72, 53467), (123, 53338), (156, 53251), (Start: 158 @53248 has 3 MA's), (Start: 227 @53119 has 28 MA's), (239, 53074), (272, 52984), (273, 52981), (276, 52975), (283, 52954), (317, 52891), (406, 52783), (421, 52765), (462, 52678), (465, 52663), (478, 52621), (511, 52540), (532, 52492), (548, 52450), (574, 52432), (575, 52429), (583, 52402), (602, 52351), (624, 52315), (646, 52264), (684, 52180), (690, 52159), (761, 52003), (762, 51997), (765, 51985), (797, 51859), (845, 51745),

Gene: Wojtek_56 Start: 39665, Stop: 41593, Start Num: 55

Candidate Starts for Wojtek_56:

(24, 39569), (28, 39578), (31, 39590), (44, 39620), (50, 39653), (Start: 55 @39665 has 13 MA's), (Start: 58 @39671 has 1 MA's), (Start: 70 @39689 has 16 MA's), (75, 39704), (86, 39737), (105, 39770), (107, 39773), (132, 39839), (163, 39911), (171, 39929), (179, 39947), (184, 39956), (188, 39965), (226, 40037), (273, 40157), (275, 40160), (295, 40220), (307, 40238), (350, 40310), (361, 40337), (422, 40472), (427, 40490), (441, 40532), (451, 40553), (455, 40559), (465, 40601), (473, 40622), (478, 40643), (490, 40679), (511, 40736), (515, 40748), (529, 40778), (531, 40787), (549, 40838), (586, 40934), (587, 40937), (659, 41048), (700, 41138), (708, 41165), (743, 41255), (765, 41333), (768, 41351), (774, 41375), (779, 41390), (808, 41492), (813, 41507), (822, 41528),

Gene: Wollypog_43 Start: 30596, Stop: 32524, Start Num: 64

Candidate Starts for Wollypog_43:

(Start: 64 @30596 has 1 MA's), (74, 30620), (128, 30746), (151, 30794), (175, 30848), (208, 30911), (216, 30923), (251, 31034), (284, 31100), (285, 31106), (335, 31199), (348, 31229), (355, 31244), (358, 31250), (458, 31514), (473, 31562), (476, 31574), (490, 31619), (518, 31688), (528, 31709),

(586, 31829), (616, 31895), (635, 31934), (678, 31997), (756, 32228), (780, 32327), (784, 32354), (815, 32453), (819, 32462),

Gene: WonderBoy_25 Start: 20548, Stop: 21942, Start Num: 212

Candidate Starts for WonderBoy_25:

(Start: 212 @20548 has 74 MA's), (232, 20605), (279, 20710), (320, 20797), (385, 20830), (420, 20881), (422, 20887), (458, 20968), (459, 20971), (462, 20977), (473, 21013), (477, 21031), (478, 21034), (489, 21067), (495, 21088), (577, 21220), (585, 21247), (601, 21286), (610, 21307), (612, 21313), (627, 21346), (633, 21361), (637, 21370), (659, 21415), (671, 21451), (690, 21493), (708, 21556), (714, 21574), (753, 21676), (754, 21679), (760, 21697), (761, 21700), (766, 21724), (767, 21733), (789, 21820), (823, 21910), (834, 21934),

Gene: Worcestershire_59 Start: 51468, Stop: 49936, Start Num: 176

Candidate Starts for Worcestershire_59:

(72, 51723), (89, 51672), (114, 51621), (133, 51567), (145, 51537), (Start: 158 @51504 has 3 MA's), (164, 51495), (Start: 176 @51468 has 28 MA's), (239, 51300), (251, 51258), (272, 51210), (277, 51198), (282, 51186), (283, 51180), (288, 51159), (306, 51132), (421, 50991), (462, 50904), (465, 50889), (470, 50877), (478, 50847), (494, 50796), (510, 50769), (532, 50718), (544, 50694), (548, 50676), (574, 50658), (575, 50655), (583, 50628), (599, 50586), (624, 50541), (684, 50406), (688, 50391), (694, 50370), (743, 50289), (744, 50286), (761, 50229), (762, 50223), (764, 50217), (765, 50211), (782, 50136), (791, 50097), (797, 50085), (798, 50082), (837, 49989), (845, 49974), (855, 49953),

Gene: Xebius_40 Start: 30931, Stop: 29519, Start Num: 376

Candidate Starts for Xebius_40:

(Start: 376 @30931 has 23 MA's), (385, 30901), (Start: 387 @30895 has 1 MA's), (400, 30862), (463, 30670), (474, 30643), (490, 30583), (499, 30556), (501, 30553), (516, 30511), (538, 30457), (550, 30415), (576, 30301), (594, 30244), (601, 30223), (606, 30208), (612, 30196), (615, 30184), (617, 30181), (626, 30163), (658, 30082), (670, 30046), (689, 29992), (701, 29950), (710, 29920), (722, 29896), (724, 29890), (739, 29848), (753, 29779), (761, 29755), (762, 29749), (764, 29743), (766, 29731), (789, 29635), (794, 29626), (802, 29608), (805, 29596), (822, 29551),

Gene: Xenia2_58 Start: 39008, Stop: 40912, Start Num: 70

Candidate Starts for Xenia2_58:

(Start: 55 @38990 has 13 MA's), (Start: 56 @38993 has 54 MA's), (Start: 70 @39008 has 16 MA's), (86, 39056), (105, 39089), (107, 39092), (184, 39275), (188, 39284), (226, 39356), (229, 39371), (233, 39380), (275, 39479), (295, 39539), (403, 39752), (420, 39785), (455, 39878), (458, 39893), (465, 39920), (473, 39941), (511, 40055), (529, 40097), (531, 40106), (547, 40145), (549, 40157), (569, 40202), (573, 40208), (586, 40253), (591, 40268), (654, 40361), (700, 40454), (753, 40607), (765, 40649), (768, 40667), (769, 40670), (808, 40808), (822, 40844), (851, 40898),

Gene: Yara_66 Start: 49125, Stop: 47230, Start Num: 61

Candidate Starts for Yara_66:

(Start: 61 @49125 has 8 MA's), (Start: 69 @49113 has 8 MA's), (Start: 70 @49110 has 16 MA's), (82, 49071), (96, 49047), (Start: 100 @49038 has 1 MA's), (109, 49026), (147, 48933), (175, 48870), (216, 48795), (226, 48771), (229, 48756), (273, 48645), (282, 48624), (298, 48576), (Start: 370 @48438 has 138 MA's), (446, 48240), (460, 48198), (475, 48147), (493, 48087), (495, 48081), (532, 47997), (586, 47892), (594, 47871), (603, 47853), (620, 47820), (642, 47772), (708, 47649), (712, 47637), (724, 47610), (754, 47520), (755, 47517), (771, 47451), (783, 47394), (786, 47376), (787, 47373), (815, 47301), (840, 47250),

Gene: Yelo_65 Start: 48022, Stop: 49782, Start Num: 200

Candidate Starts for Yelo_65:

(Start: 200 @48022 has 9 MA's), (230, 48091), (270, 48187), (275, 48196), (305, 48277), (334, 48322), (420, 48523), (434, 48571), (458, 48631), (462, 48643), (480, 48709), (522, 48832), (532, 48856), (542, 48880), (577, 49084), (586, 49117), (591, 49132), (610, 49171), (611, 49174), (616, 49183), (662, 49252), (718, 49384), (753, 49507), (754, 49510), (762, 49537), (768, 49567), (770, 49573), (771, 49576), (775, 49594), (779, 49606), (822, 49741), (839, 49771),

Gene: Yikes_62 Start: 41734, Stop: 43647, Start Num: 56

Candidate Starts for Yikes_62:

(19, 41608), (22, 41617), (23, 41629), (34, 41662), (50, 41719), (Start: 55 @41731 has 13 MA's), (Start: 56 @41734 has 54 MA's), (Start: 70 @41746 has 16 MA's), (86, 41794), (105, 41827), (132, 41896), (171, 41986), (184, 42013), (188, 42022), (226, 42094), (273, 42214), (295, 42277), (350, 42367), (361, 42394), (420, 42523), (427, 42547), (441, 42589), (460, 42637), (465, 42658), (473, 42679), (490, 42736), (511, 42790), (529, 42832), (549, 42892), (586, 42988), (587, 42991), (685, 43168), (708, 43219), (743, 43309), (753, 43345), (755, 43351), (768, 43405), (779, 43444), (808, 43546), (813, 43561), (822, 43582),

Gene: Yindexa_71 Start: 54175, Stop: 52319, Start Num: 126

Candidate Starts for Yindexa_71:

(9, 54592), (11, 54574), (16, 54499), (Start: 36 @54400 has 34 MA's), (Start: 126 @54175 has 3 MA's), (251, 53881), (273, 53848), (282, 53827), (299, 53773), (303, 53767), (306, 53764), (355, 53674), (357, 53671), (Start: 387 @53611 has 1 MA's), (450, 53455), (495, 53308), (532, 53200), (542, 53176), (577, 53074), (594, 53020), (602, 53005), (641, 52924), (662, 52885), (687, 52822), (700, 52783), (702, 52777), (710, 52747), (753, 52630), (769, 52567), (783, 52504), (787, 52486), (819, 52402),

Gene: YuuY_40 Start: 31212, Stop: 29842, Start Num: 376

Candidate Starts for YuuY_40:

(Start: 376 @31212 has 23 MA's), (400, 31143), (423, 31062), (463, 30951), (474, 30924), (490, 30864), (499, 30837), (501, 30834), (538, 30738), (576, 30582), (594, 30525), (601, 30504), (606, 30489), (612, 30477), (615, 30465), (621, 30456), (626, 30444), (632, 30429), (647, 30405), (670, 30369), (675, 30360), (689, 30315), (701, 30273), (725, 30210), (731, 30198), (739, 30171), (753, 30102), (756, 30093), (761, 30078), (762, 30072), (764, 30066), (766, 30054), (789, 29958), (794, 29949), (802, 29931), (805, 29919),

Gene: Zada_42 Start: 31090, Stop: 29702, Start Num: 370

Candidate Starts for Zada_42:

(242, 31387), (274, 31312), (Start: 370 @31090 has 138 MA's), (419, 30946), (421, 30940), (422, 30937), (463, 30823), (474, 30796), (490, 30736), (499, 30709), (501, 30706), (538, 30610), (550, 30568), (575, 30457), (594, 30397), (606, 30361), (612, 30349), (632, 30301), (670, 30241), (702, 30145), (725, 30082), (743, 30028), (762, 29944), (764, 29938), (766, 29926), (789, 29830), (810, 29776), (811, 29773), (820, 29749),

Gene: Zanella_33 Start: 23260, Stop: 24687, Start Num: 217

Candidate Starts for Zanella_33:

(191, 23218), (Start: 217 @23260 has 16 MA's), (397, 23578), (465, 23725), (473, 23746), (591, 24013), (612, 24061), (622, 24082), (648, 24139), (661, 24172), (677, 24208), (702, 24286), (708, 24307), (743, 24388), (744, 24391), (767, 24478), (771, 24490), (781, 24529), (789, 24565), (791, 24571), (792, 24574), (797, 24583), (818, 24646),

Gene: Zany_58 Start: 41140, Stop: 43056, Start Num: 55

Candidate Starts for Zany_58:

(Start: 55 @41140 has 13 MA's), (Start: 56 @41143 has 54 MA's), (Start: 70 @41155 has 16 MA's), (86, 41203), (105, 41236), (132, 41305), (171, 41395), (184, 41422), (188, 41431), (226, 41503), (273, 41623), (295, 41686), (312, 41713), (350, 41776), (361, 41803), (420, 41932), (427, 41956), (441,

41998), (460, 42046), (465, 42067), (473, 42088), (490, 42145), (511, 42199), (529, 42241), (549, 42301), (586, 42397), (587, 42400), (708, 42628), (743, 42718), (753, 42754), (755, 42760), (768, 42814), (779, 42853), (808, 42955), (813, 42970), (822, 42991),

Gene: Zayuliv_40 Start: 29694, Stop: 28267, Start Num: 373

Candidate Starts for Zayuliv_40:

(Start: 373 @29694 has 21 MA's), (383, 29664), (385, 29658), (421, 29544), (422, 29541), (423, 29538), (499, 29304), (501, 29301), (576, 29046), (591, 28995), (594, 28989), (612, 28941), (626, 28908), (670, 28794), (675, 28785), (689, 28740), (691, 28734), (698, 28707), (725, 28635), (747, 28563), (753, 28527), (756, 28518), (761, 28503), (762, 28497), (766, 28479), (776, 28437), (794, 28374), (820, 28302),

Gene: Zenitsu_40 Start: 30973, Stop: 29561, Start Num: 376

Candidate Starts for Zenitsu_40:

(Start: 372 @30976 has 8 MA's), (Start: 376 @30973 has 23 MA's), (385, 30943), (Start: 387 @30937 has 1 MA's), (400, 30904), (463, 30712), (474, 30685), (490, 30625), (499, 30598), (501, 30595), (516, 30553), (538, 30499), (550, 30457), (576, 30343), (594, 30286), (601, 30265), (606, 30250), (612, 30238), (615, 30226), (617, 30223), (626, 30205), (658, 30124), (670, 30088), (689, 30034), (701, 29992), (710, 29962), (718, 29947), (722, 29938), (724, 29932), (739, 29890), (753, 29821), (761, 29797), (762, 29791), (764, 29785), (766, 29773), (789, 29677), (794, 29668), (802, 29650), (805, 29638), (807, 29632), (822, 29593),

Gene: Zenon_68 Start: 47968, Stop: 49728, Start Num: 200

Candidate Starts for Zenon_68:

(Start: 200 @47968 has 9 MA's), (230, 48037), (270, 48133), (275, 48142), (305, 48223), (334, 48268), (420, 48469), (434, 48517), (458, 48577), (462, 48589), (480, 48655), (522, 48778), (532, 48802), (542, 48826), (577, 49030), (586, 49063), (591, 49078), (610, 49117), (611, 49120), (616, 49129), (662, 49198), (718, 49330), (753, 49453), (754, 49456), (762, 49483), (768, 49513), (770, 49519), (771, 49522), (775, 49540), (779, 49552), (822, 49687), (839, 49717),

Gene: Zepp_40 Start: 29128, Stop: 27701, Start Num: 373

Candidate Starts for Zepp_40:

(Start: 373 @29128 has 21 MA's), (383, 29098), (385, 29092), (421, 28978), (422, 28975), (486, 28774), (499, 28738), (501, 28735), (576, 28480), (591, 28429), (594, 28423), (612, 28375), (615, 28363), (626, 28342), (661, 28255), (670, 28228), (675, 28219), (689, 28174), (698, 28141), (718, 28087), (725, 28069), (747, 27997), (753, 27961), (756, 27952), (761, 27937), (762, 27931), (766, 27913), (794, 27808), (820, 27736),

Gene: Zion_72 Start: 52509, Stop: 50584, Start Num: 69

Candidate Starts for Zion_72:

(Start: 33 @52602 has 1 MA's), (35, 52596), (Start: 69 @52509 has 8 MA's), (144, 52338), (167, 52284), (251, 52080), (331, 51924), (355, 51873), (357, 51870), (379, 51828), (421, 51741), (422, 51738), (446, 51666), (451, 51657), (575, 51306), (577, 51300), (586, 51267), (733, 50928), (755, 50862), (759, 50850), (764, 50832), (769, 50805), (783, 50742), (794, 50709), (820, 50637),

Gene: Zooman_98 Start: 76212, Stop: 74272, Start Num: 65

Candidate Starts for Zooman_98:

(Start: 65 @76212 has 9 MA's), (124, 76086), (134, 76059), (178, 75966), (179, 75963), (Start: 227 @75891 has 28 MA's), (251, 75810), (266, 75786), (383, 75510), (470, 75225), (476, 75204), (508, 75114), (532, 75054), (536, 75045), (542, 75030), (575, 74988), (577, 74982), (586, 74949), (590, 74937), (594, 74928), (605, 74904), (635, 74844), (667, 74808), (703, 74712), (704, 74706), (730, 74643), (735, 74622), (738, 74616), (762, 74541), (764, 74535), (767, 74514), (782, 74454), (792, 74412), (802, 74388), (805, 74376),

Gene: Zorro_29 Start: 22105, Stop: 23505, Start Num: 212

Candidate Starts for Zorro_29:

(Start: 212 @22105 has 74 MA's), (232, 22168), (279, 22273), (280, 22276), (320, 22360), (385, 22393), (420, 22444), (422, 22450), (458, 22531), (459, 22534), (462, 22540), (473, 22576), (477, 22594), (478, 22597), (489, 22630), (495, 22651), (523, 22702), (577, 22783), (585, 22810), (596, 22840), (601, 22849), (612, 22876), (627, 22909), (633, 22924), (659, 22978), (666, 22999), (670, 23011), (678, 23023), (755, 23245), (758, 23254), (760, 23260), (767, 23296), (782, 23356), (789, 23383), (823, 23473),