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24	7231	7238	7245	7252	7259	7266	7273	7280	7287	7294	7301	7308	7315	7322	7329	7336	7343	7350	7357	7364	7371	7378	7385	7392	7399	7406	7413	7420	7427	7434	7441	7448	7455	7462	7469	7476	7483	7490	7497	7504	7511	7518	7525	7532	7539	7546	7553	7560	7567	7574	7581	7588	7595	7602	7609	7616	7623	7630	7637	7644	7651	7658	7665	7672	7679	7686	7693	7700	7707	7714	7721	7728	7735	7742	7749	7756	7763	7770	7777	7784	7791	7798	7805	7812	7819	7826	7833	7840	7847	7854	7861	7868	7875	7882	7889	7896	7903	7910	7917	7924	7931	7938	7945	7952	7959	7966	7973	7980	7987	7994	8001	8008	8015	8022	8029	8036	8043	8050	8057	8064	8071	8078	8085	8092	8099	8106	8113	8120	8127	8134	8141	8148	8155	8162	8169	8176	8183	8190	8197	8204	8211	8218	8225	8232	8239	8246	8253	8260	8267	8274	8281	8288	8295	8302	8309	8316	8323	8330	8337	8344	8351	8358	8365	8372	8379	8386	8393	8400	8407	8414	8421	8428	8435	8442	8449	8456	8463	8470	8477	8484	8491	8498	8505	8512	8519	8526	8533	8540	8547	8554	8561	8568	8575	8582	8589	8596	8603	8610	8617	8624	8631	8638	8645	8652	8659	8666	8673	8680	8687	8694	8701	8708	8715	8722	8729	8736	8743	8750	8757	8764	8771	8778	8785	8792	8799	8806	8813	8820	8827	8834	8841	8848	8855	8862	8869	8876	8883	8890	8897	8904	8911	8918	8925	8932	8939	8946	8953	8960	8967	8974	8981	8988	8995	9002	9009	9016	9023	9030	9037	9044	9051	9058	9065	9072	9079	9086	9093	9100	9107	9114	9121	9128	9135	9142	9149	9156	9163	9170	9177	9184	9191	9198	9205	9212	9219	9226	9233	9240	9247	9254	9261	9268	9275	9282	9289	9296	9303	9310	9317	9324	9331	9338	9345	9352	9359	9366	9373	9380	9387	9394	9401	9408	9415	9422	9429	9436	9443	9450	9457	9464	9471	9478	9485	9492	9499	9506	9513	9520	9527	9534	9541	9548	9555	9562	9569	9576	9583	9590	9597	9604	9611	9618	9625	9632	9639	9646	9653	9660	9667	9674	9681	9688	9695	970
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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 199948 Report

This analysis was run 01/18/25 on database version 583.

Pham number 199948 has 280 members, 23 are drafts.

Phages represented in each track:

- Track 1 : 8UZL_19
- Track 2 : Muddy_19
- Track 3 : NoShow_16
- Track 4 : Maco6_17
- Track 5 : FF47_19
- Track 6 : PinkYoshi_16, Darionha_16, CLED96_16, Frosty24_16, ShaboiShabazz_16, Crespo_16, Gomashi_16, LouisV14_16, Jolene_16, BQuat_16, Jane_16, TomBrady_16, CassieYates_16, Camri_16, Angel_16, Halo_16, OctaviousRex_16, DMoney_16, ECartman_16, Kasen3_16, Sweets_16, Wendigo_16, Remy19_16, BPs_16, ZoMa_16, Gideon_16, Peeb_16, JorRay_16, Coleslaw_16, Avrafan_16, Jonghyun_16, GoldenAsh_16, Cherrybomb426_16, Sizemore_16, Schiebel_16, Plagueis_16, Phreak_16, Olga_16, Aroostook_16, Barkley26_16, Phish_16, Hope_16, Zombie_16, DNAlll_0016, Hotshotbaby7_16, Mowgli_16, Kareem_16, Chance64_16, BruceB_16, TinaBug_16, Marmie_16, Cedasite_16, Maliketh_16, Renaissance_16, Annihilator_16, Periodt_16, AzulaCat_16
- Track 7 : Paito_16
- Track 8 : Grizzly_16
- Track 9 : Taheera_16, Terror_16
- Track 10 : Rabbs_16, Sneeze_16
- Track 11 : Liefie_16
- Track 12 : Cambiare_17
- Track 13 : FlagStaff_16
- Track 14 : Avocado_16
- Track 15 : Pace1224_16
- Track 16 : MOOREtheMARYer_16
- Track 17 : Pinnie_17
- Track 18 : Lemuria_16
- Track 19 : Jolie2_16
- Track 20 : Mercurio_17
- Track 21 : Antsirabe_16
- Track 22 : Stargaze_16
- Track 23 : Piatt_21, Durfee_21, BaghaKamala_21, Boiii_21, Peel_21, Dalmuri_21, Topper_21, Inky_21, JAWS_21, Asayake_21, BGIlluviae_21, Capricorn_21, Jeckyll_21, CREW_21, Padfoot_21, Rosmarinus_21, Twitch_21, Blizzard_21, BEEST_21, BarrelRoll_21, Hyperbowlee_21, Jarvi_21, Spock_21, ShiaSurprise_21, Lunahalos_21, CaseJules_21

- Track 24 : LilPharaoh_17, Mdavu_17, Nutello_17, Amelie_17, SgtBeansprout_17, Enkosi_17, Torres_17, Biglebops_17
- Track 25 : Apocalypse_21
- Track 26 : Murucutumbu_21, Ageofdapage_21, Stinson_21, LaterM_21
- Track 27 : Slimphazie_21, Adephagia_21, Jayhawk_21, HedwigODU_21, ActinUp_21, Tachez_21, Zabiza_21, Atiba_21, Ramen_21, TruffulaTree_21, Rapunzel97_21
- Track 28 : CrimD_21
- Track 29 : Shaobing_21
- Track 30 : Bella96_21
- Track 31 : McMater_21, Dartin_21, Niklas_21, Richo_21, Peanam_21
- Track 32 : YoureAdopted_20
- Track 33 : Devera_21, Dole_21, Illumine_21
- Track 34 : Joy99_21, MeaningOfLife_21, Geraldini_21
- Track 35 : Mynx_21, Pokerus_20
- Track 36 : Prithvi_21, LindNT_21, TreyKay_21
- Track 37 : Belladonna_21
- Track 38 : MarkPhew_21
- Track 39 : CheetoDust_21
- Track 40 : AlishaPH_21, Emerson_21, Padpat_21
- Track 41 : TaiwanKao_22
- Track 42 : Adonis_21
- Track 43 : Oscar_20
- Track 44 : Zavala_21
- Track 45 : Angelica_21, Deby_21, Sulley_21
- Track 46 : Clipper_23, MackKat_22
- Track 47 : Anaya_22
- Track 48 : Guanica15_21, Yunkel11_21
- Track 49 : Validus_21
- Track 50 : Nibb_20
- Track 51 : Nikao_17
- Track 52 : Curiosium_22
- Track 53 : Beezoo_21
- Track 54 : CallaLilly_22
- Track 55 : LeMond_20
- Track 56 : Scarlett_20
- Track 57 : Veliki_21
- Track 58 : LastHope_21
- Track 59 : Bern_23
- Track 60 : TiniBug_21
- Track 61 : DrHayes_21, Urkel_21, SamuelLPlaqson_21
- Track 62 : KiSi_20
- Track 63 : Chris_20
- Track 64 : Tiri_21
- Track 65 : Efra2_21
- Track 66 : Homura_21
- Track 67 : QuincyRose_20
- Track 68 : Ganymede_22
- Track 69 : Megsy_21
- Track 70 : TingHuaYa_21
- Track 71 : Llorens_21
- Track 72 : ZoeJ_17
- Track 73 : Milly_17

- Track 74 : BoostSeason_17
- Track 75 : Mufasa_17
- Track 76 : Strobilo_17
- Track 77 : DismalFunk_17, Marcoliusprime_17, DismalStressor_17
- Track 78 : Findley_17
- Track 79 : TM4_17
- Track 80 : Neighly_19, Larva_19
- Track 81 : MacnCheese_21
- Track 82 : TBond007_20
- Track 83 : Pharb_20
- Track 84 : Keshu_20
- Track 85 : Hurricane_20
- Track 86 : TribbleTrouble_19
- Track 87 : ShedlockHolmes_20
- Track 88 : Pixie_20
- Track 89 : OmniCritical_22, Mitti_22, SamScheppers_20
- Track 90 : MissDaisy_22, Patt_22, Reptar3000_22
- Track 91 : Juliette_22, Ruthiejr_21
- Track 92 : Fionnbharth_22, Wintermute_22
- Track 93 : Chancellor_22
- Track 94 : JF1_22, Y2_22, Y10_22
- Track 95 : Cheetobro_22
- Track 96 : Eponine_22
- Track 97 : Malthus_22, Kraw_22
- Track 98 : Slarp_22
- Track 99 : Taquito_20
- Track 100 : Omnicron_19
- Track 101 : Collard_19, InvictusManeo_19, ViviJ_18, Agent47_19
- Track 102 : Thyatira_19, Waterfoul_19
- Track 103 : Miryou_19
- Track 104 : Kratio_18
- Track 105 : Psycho_19
- Track 106 : Dadosky_19
- Track 107 : Feyre_19
- Track 108 : AlleyCat_19
- Track 109 : OkiRoe_19
- Track 110 : SoSeph_19, Heftyboy_19
- Track 111 : Paola_19, Gengar_19, Guillsminger_19, Leston_19
- Track 112 : Rando14_19
- Track 113 : Edugator_18
- Track 114 : PhelpsODU_20, Unicorn_20
- Track 115 : DarthP_20, Hammy_20
- Track 116 : Krueger_20
- Track 117 : November_20
- Track 118 : SirPhilip_20
- Track 119 : Amgine_19
- Track 120 : Ekdilam_18
- Track 121 : Cain_20, Bryler_20, Tierra_20, Phrank_20
- Track 122 : Shadow1_19
- Track 123 : Amohnition_20
- Track 124 : TClif_20
- Track 125 : Yuna_21
- Track 126 : Ximenita_21

- Track 127 : Fefferhead_20
- Track 128 : Sunflower1121_19
- Track 129 : Syra333_20
- Track 130 : Marshawn_22
- Track 131 : Ellie_18
- Track 132 : Aminay_19
- Track 133 : Boilgate_18

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

The start number called the most often in the published annotations is 15, it was called in 162 of the 257 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ActinUp_21, Adephegia_21, Adonis_21, Ageofdapage_21, AlishaPH_21, Amelie_17, Amgine_19, Aminay_19, Amohnition_20, Anaya_22, Angel_16, Angelica_21, Annihilator_16, Apocalypse_21, Aroostook_16, Asayake_21, Atiba_21, Avrafan_16, AzulaCat_16, BEEST_21, BGlluviae_21, BPs_16, BQuat_16, BaghaKamala_21, Barkley26_16, BarrelRoll_21, Beezoo_21, Bella96_21, Bern_23, Biglebops_17, Blizzard_21, Boiiii_21, BruceB_16, CLED96_16, CREW_21, CallaLilly_22, Camri_16, Capricorn_21, CaseJules_21, CassieYates_16, Cedasite_16, Chance64_16, CheetoDust_21, Cherrybomb426_16, Clipper_23, Coleslaw_16, Crespo_16, CrimD_21, DMoney_16, DNAlll_0016, Dalmuri_21, Darionha_16, DarthP_20, Deby_21, Devera_21, Dole_21, DrHayes_21, Durfee_21, ECartman_16, Ekdilam_18, Ellie_18, Emerson_21, Enkosi_17, Fefferhead_20, Frosty24_16, Ganymede_22, Geraldini_21, Gideon_16, GoldenAsh_16, Gomashi_16, Grizzly_16, Halo_16, Hammy_20, HedwigODU_21, Homura_21, Hope_16, Hotshotbaby7_16, Hurricane_20, Hyperbowlee_21, Illumine_21, Inky_21, JAWS_21, Jane_16, Jarvi_21, Jayhawk_21, Jeckyll_21, Jolene_16, Jonghyun_16, JorRay_16, Joy99_21, Kareem_16, Kasen3_16, Keshu_20, LaterM_21, Liefie_16, LilPharaoh_17, LindNT_21, Llorens_21, LouisV14_16, Lunahalos_21, MacKat_22, MacnCheese_21, Maliketh_16, Marmie_16, Mdavu_17, MeaningOfLife_21, Megsy_21, Mowgli_16, Murucutumbu_21, Mynx_21, Nikao_17, November_20, Nutello_17, OctaviousRex_16, Olga_16, Padfoot_21, Padpat_21, Paito_16, Peeb_16, Peel_21, Periodt_16, Pharb_20, Phish_16, Phreak_16, Piatt_21, PinkYoshi_16, Pixie_20, Plagueis_16, Pokerus_20, Prithvi_21, QuincyRose_20, Rabbs_16, Ramen_21, Rapunzel97_21, Remy19_16, Renaissance_16, Rosmarinus_21, SamuelLPlaqsom_21, Schiebel_16, SgtBeansprout_17, ShaboiShabazz_16, ShedlockHolmes_20, ShiaSurprise_21, Sizemore_16, Slimphazie_21, Sneeze_16, Spock_21, Stinson_21, Sulley_21, Sweets_16, TBond007_20, Tachez_21, Taheera_16, TaiwanKao_22, Terror_16, TinaBug_16, TiniBug_21, Tiri_21, TomBrady_16, Topper_21, Torres_17, TreyKay_21, TripleTrouble_19, TruffulaTree_21, Twitch_21, Urkel_21, Veliki_21, Wendigo_16, YoureAdopted_20, Zabiza_21, Zavala_21, ZoMa_16, Zombie_16,

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

- Belladonna_21,

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

- 8UZL_19, Agent47_19, AlleyCat_19, Antsirabe_16, Avocado_16, Boilgate_18, BoostSeason_17, Bryler_20, Cain_20, Cambiare_17, Chancellor_22, Cheetobro_22, Chris_20, Collard_19, Curiosium_22, Dadosky_19, Dartin_21, DismalFunk_17, DismalStressor_17, Edugator_18, Efra2_21, Eponine_22, FF47_19, Feyre_19, Findley_17, Fionnbharth_22, FlagStaff_16, Gengar_19, Guanica15_21, Guillsminger_19, Heftyboy_19, InvictusManeo_19, JF1_22, Jolie2_16, Juliette_22, KiSi_20, Kratio_18, Kraw_22, Krueger_20, Larva_19, LastHope_21, LeMond_20, Lemuria_16, Leston_19, MOOREtheMARYer_16, Maco6_17, Malthus_22, Marcoliusprime_17, MarkPhew_21, Marshawn_22, McMater_21, Mercurio_17, Milly_17, Miryou_19, MissDaisy_22, Mitti_22, Muddy_19, Mufasa_17, Neighly_19, Nibb_20, Niklas_21, NoShow_16, OkiRoe_19, OmniCritical_22, Omnicron_19, Oscar_20, Pace1224_16, Paola_19, Patt_22, Peanam_21, PhelpsODU_20, Phrank_20, Pinnie_17, Psycho_19, Rando14_19, Reptar3000_22, Richo_21, Ruthiejr_21, SamScheppers_20, Scarlett_20, Shadow1_19, Shaobing_21, SirPhilip_20, Slarp_22, SoSeph_19, Stargaze_16, Strobilo_17, Sunflower1121_19, Syra333_20, TClif_20, TM4_17, Taquito_20, Thyatira_19, Tierra_20, TingHuaYa_21, Unicorn_20, Validus_21, ViviJ_18, Waterfoul_19, Wintermute_22, Ximenita_21, Y10_22, Y2_22, Yuna_21, Yunkel11_21, ZoeJ_17,

Summary by start number:

Start 5:

- Found in 1 of 280 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 257
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NoShow_16 (AB),

Start 12:

- Found in 3 of 280 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 257
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Psycho_19 (K5),

Start 14:

- Found in 34 of 280 (12.1%) of genes in pham
- Manual Annotations of this start: 31 of 257
- Called 97.1% of time when present
- Phage (with cluster) where this start called: Agent47_19 (K5), AlleyCat_19 (K5), BoostSeason_17 (K2), Collard_19 (K5), Dadosky_19 (K5), DismalFunk_17 (K2), DismalStressor_17 (K2), Edugator_18 (K5), Feyre_19 (K5), Findley_17 (K2), Gengar_19 (K5), Guillsminger_19 (K5), Heftyboy_19 (K5), InvictusManeo_19 (K5), Kratio_18 (K5), Larva_19 (K5), Leston_19 (K5), Marcoliusprime_17 (K2), Milly_17 (K2), Miryou_19 (K5), Mufasa_17 (K2), Neighly_19 (K3), OkiRoe_19 (K5), Omnicron_19 (K5), Paola_19 (K5), Rando14_19 (K5), SoSeph_19 (K5), Strobilo_17 (K2), TM4_17 (K2), Thyatira_19 (K5), ViviJ_18 (K5), Waterfoul_19 (K5), ZoeJ_17 (K2),

Start 15:

- Found in 174 of 280 (62.1%) of genes in pham
- Manual Annotations of this start: 162 of 257
- Called 99.4% of time when present
- Phage (with cluster) where this start called: ActinUp_21 (K1), Adephegia_21 (K1), Adonis_21 (K1), Ageofdapage_21 (K1), AlishaPH_21 (K1), Amelie_17 (K1),

Amgine_19 (K6), Aminay_19 (K7), Amohnition_20 (K6), Anaya_22 (K1), Angel_16 (G1), Angelica_21 (K1), Annihilator_16 (G1), Apocalypse_21 (K1), Aroostook_16 (G1), Asayake_21 (K1), Atiba_21 (K1), Avrafan_16 (G1), AzulaCat_16 (G1), BEEST_21 (K1), BGlluviae_21 (K1), BPs_16 (G1), BQuat_16 (G1), BaghaKamala_21 (K1), Barkley26_16 (G1), BarrelRoll_21 (K1), Beezoo_21 (K1), Bella96_21 (K1), Bern_23 (K1), Binglebops_17 (K1), Blizzard_21 (K1), Boiiii_21 (K1), BruceB_16 (G1), CLED96_16 (G1), CREW_21 (K1), CallaLilly_22 (K1), Camri_16 (G1), Capricorn_21 (K1), CaseJules_21 (K1), CassieYates_16 (G1), Cedasite_16 (G1), Chance64_16 (G1), CheetoDust_21 (K1), Cherrybomb426_16 (G1), Clipper_23 (K1), Coleslaw_16 (G1), Crespo_16 (G1), CrimD_21 (K1), DMoney_16 (G1), DNAIII_0016 (G1), Dalmuri_21 (K1), Darionha_16 (G1), DARTH_20 (K6), Deby_21 (K1), Devera_21 (K1), Dole_21 (K1), DrHayes_21 (K1), Durfee_21 (K1), ECartman_16 (G1), Ekdilam_18 (K6), Ellie_18 (K6), Emerson_21 (K1), Enkosi_17 (K1), Fefferhead_20 (K6), Frosty24_16 (G1), Ganymede_22 (K1), Geraldini_21 (K1), Gideon_16 (G1), GoldenAsh_16 (G1), Gomashi_16 (G1), Grizzly_16 (G1), Halo_16 (G1), Hammy_20 (K6), HedwigODU_21 (K1), Homura_21 (K1), Hope_16 (G1), Hotshotbaby7_16 (G1), Hurricane_20 (K3), Hyperbowlee_21 (K1), Illumine_21 (K1), Inky_21 (K1), JAWS_21 (K1), Jane_16 (G1), Jarvi_21 (K1), Jayhawk_21 (K1), Jeckyll_21 (K1), Jolene_16 (G1), Jonghyun_16 (G1), JorRay_16 (G1), Joy99_21 (K1), Kareem_16 (G1), Kasen3_16 (G1), Keshu_20 (K3), LaterM_21 (K1), Liefie_16 (G1), LilPharaoh_17 (K1), LindNT_21 (K1), Llorens_21 (K1), LouisV14_16 (G1), Lunahalos_21 (K1), MacKat_22 (K1), MacnCheese_21 (K3), Maliketh_16 (G1), Marmie_16 (G1), Mdavu_17 (K1), MeaningOfLife_21 (K1), Megsy_21 (K1), Mowgli_16 (G1), Murucutumbu_21 (K1), Mynx_21 (K1), Nikao_17 (K1), November_20 (K6), Nutello_17 (K1), OctaviousRex_16 (G1), Olga_16 (G1), Padfoot_21 (K1), Padpat_21 (K1), Paito_16 (G1), Peeb_16 (G1), Peel_21 (K1), Periodt_16 (G1), Pharb_20 (K3), Phish_16 (G1), Phreak_16 (G1), Piatt_21 (K1), PinkYoshi_16 (G1), Pixie_20 (K3), Plagueis_16 (G1), Pokerus_20 (K1), Prithvi_21 (K1), QuincyRose_20 (K1), Rabbs_16 (G1), Ramen_21 (K1), Rapunzel97_21 (K1), Remy19_16 (G1), Renaissance_16 (G1), Rosmarinus_21 (K1), SamuelPlaqson_21 (K1), Schiebel_16 (G1), SgtBeansprout_17 (K1), ShaboiShabazz_16 (G1), ShedlockHolmes_20 (K3), ShiaSurprise_21 (K1), Sizemore_16 (G1), Slimphazie_21 (K1), Sneeze_16 (G1), Spock_21 (K1), Stinson_21 (K1), Sulley_21 (K1), Sweets_16 (G1), TBond007_20 (K3), Tachez_21 (K1), Taheera_16 (G1), TaiwanKao_22 (K1), Terror_16 (G1), TinaBug_16 (G1), TiniBug_21 (K1), Tiri_21 (K1), TomBrady_16 (G1), Topper_21 (K1), Torres_17 (K1), TreyKay_21 (K1), TripleTrouble_19 (K3), TruffulaTree_21 (K1), Twitch_21 (K1), Urkel_21 (K1), Veliki_21 (K1), Wendigo_16 (G1), YoureAdopted_20 (K1), Zabiza_21 (K1), Zavala_21 (K1), ZoMa_16 (G1), Zombie_16 (G1),

Start 16:

- Found in 67 of 280 (23.9%) of genes in pham
- Manual Annotations of this start: 58 of 257
- Called 98.5% of time when present
- Phage (with cluster) where this start called: Antsirabe_16 (G5), Avocado_16 (G2), Bryler_20 (K6), Cain_20 (K6), Cambiare_17 (G2), Chancellor_22 (K4), Cheetobro_22 (K4), Chris_20 (K1), Curiosium_22 (K1), Dartin_21 (K1), Efra2_21 (K1), Eponine_22 (K4), Fionnbharth_22 (K4), FlagStaff_16 (G2), Guanica15_21 (K1), JF1_22 (K4), Jolie2_16 (G4), Juliette_22 (K4), KiSi_20 (K1), Kraw_22 (K4), Krueger_20 (K6), LastHope_21 (K1), LeMond_20 (K1), Lemuria_16 (G4), MOOREtheMARYer_16 (G3), Malthus_22 (K4), MarkPhew_21 (K1), Marshawn_22 (K6), McMater_21 (K1), Mercurio_17 (G4), MissDaisy_22 (K4), Mitti_22 (K4), Nibb_20 (K1), Niklas_21 (K1), OmniCritical_22 (K4), Oscar_20 (K1), Pace1224_16 (G2), Patt_22 (K4), Peanam_21 (K1), PhelpsODU_20 (K6), Phrank_20 (K6), Pinnie_17 (G3), Reptar3000_22 (K4),

Richo_21 (K1), Ruthiejr_21 (K4), SamScheppers_20 (K4), Scarlett_20 (K1), Shadow1_19 (K6), Shaobing_21 (K1), SirPhilip_20 (K6), Slarp_22 (K4), Stargaze_16 (G5), Sunflower1121_19 (K6), Syra333_20 (K6), TClif_20 (K6), Taquito_20 (K4), Tierra_20 (K6), TingHuaYa_21 (K1), Unicorn_20 (K6), Validus_21 (K1), Wintermute_22 (K4), Ximenita_21 (K6), Y10_22 (K4), Y2_22 (K4), Yuna_21 (K6), Yunkel11_21 (K1),

Start 23:

- Found in 119 of 280 (42.5%) of genes in pham
- Manual Annotations of this start: 1 of 257
- Called 0.8% of time when present
- Phage (with cluster) where this start called: Belladonna_21 (K1),

Start 24:

- Found in 31 of 280 (11.1%) of genes in pham
- Manual Annotations of this start: 1 of 257
- Called 3.2% of time when present
- Phage (with cluster) where this start called: Boilgate_18 (K8),

Start 28:

- Found in 5 of 280 (1.8%) of genes in pham
- Manual Annotations of this start: 2 of 257
- Called 80.0% of time when present
- Phage (with cluster) where this start called: 8UZL_19 (AB), FF47_19 (AB), Maco6_17 (AB), Muddy_19 (AB),

Summary by clusters:

There are 14 clusters represented in this pham: G5, G4, G3, G2, G1, K3, K2, K1, AB, K7, K6, K5, K4, K8,

Info for manual annotations of cluster AB:

- Start number 5 was manually annotated 1 time for cluster AB.
- Start number 28 was manually annotated 2 times for cluster AB.

Info for manual annotations of cluster G1:

- Start number 15 was manually annotated 60 times for cluster G1.

Info for manual annotations of cluster G2:

- Start number 16 was manually annotated 3 times for cluster G2.

Info for manual annotations of cluster G3:

- Start number 16 was manually annotated 2 times for cluster G3.

Info for manual annotations of cluster G4:

- Start number 16 was manually annotated 2 times for cluster G4.

Info for manual annotations of cluster G5:

- Start number 16 was manually annotated 1 time for cluster G5.

Info for manual annotations of cluster K1:

- Start number 15 was manually annotated 86 times for cluster K1.
- Start number 16 was manually annotated 16 times for cluster K1.

- Start number 23 was manually annotated 1 time for cluster K1.

Info for manual annotations of cluster K2:

- Start number 14 was manually annotated 10 times for cluster K2.

Info for manual annotations of cluster K3:

- Start number 15 was manually annotated 8 times for cluster K3.

Info for manual annotations of cluster K4:

- Start number 16 was manually annotated 19 times for cluster K4.

Info for manual annotations of cluster K5:

- Start number 12 was manually annotated 1 time for cluster K5.
- Start number 14 was manually annotated 21 times for cluster K5.

Info for manual annotations of cluster K6:

- Start number 15 was manually annotated 7 times for cluster K6.
- Start number 16 was manually annotated 15 times for cluster K6.

Info for manual annotations of cluster K7:

- Start number 15 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster K8:

- Start number 24 was manually annotated 1 time for cluster K8.

Gene Information:

Gene: 8UZL_19 Start: 11439, Stop: 14888, Start Num: 28

Candidate Starts for 8UZL_19:

(Start: 28 @11439 has 2 MA's), (30, 11454), (36, 11502), (38, 11505), (45, 11550), (82, 11673), (143, 12000), (147, 12012), (150, 12033), (163, 12117), (170, 12171), (172, 12180), (181, 12234), (182, 12243), (187, 12267), (188, 12276), (193, 12318), (204, 12363), (206, 12375), (209, 12396), (214, 12420), (224, 12474), (238, 12528), (243, 12549), (245, 12561), (249, 12585), (250, 12594), (268, 12672), (335, 12798), (343, 12840), (366, 13008), (367, 13014), (376, 13059), (402, 13182), (420, 13260), (430, 13293), (434, 13320), (437, 13332), (457, 13440), (458, 13449), (485, 13542), (494, 13572), (503, 13608), (511, 13638), (520, 13656), (527, 13683), (529, 13686), (547, 13740), (548, 13743), (565, 13833), (573, 13881), (577, 13896), (581, 13914), (587, 13929), (594, 13989), (599, 14022), (602, 14031), (606, 14040), (619, 14076), (624, 14091), (658, 14286), (675, 14481), (685, 14577), (688, 14595), (694, 14637), (695, 14643), (703, 14670), (722, 14772), (724, 14781), (731, 14820),

Gene: ActinUp_21 Start: 12079, Stop: 15918, Start Num: 15

Candidate Starts for ActinUp_21:

(Start: 15 @12079 has 162 MA's), (Start: 23 @12148 has 1 MA's), (31, 12235), (59, 12412), (67, 12439), (84, 12511), (85, 12523), (87, 12532), (99, 12604), (110, 12679), (129, 12763), (131, 12772), (134, 12793), (142, 12832), (158, 12910), (169, 12988), (184, 13078), (196, 13153), (214, 13246), (216, 13255), (218, 13267), (220, 13276), (271, 13537), (275, 13552), (282, 13585), (302, 13672), (309, 13696), (323, 13780), (338, 13864), (341, 13876), (345, 13897), (400, 14053), (439, 14134), (450, 14182), (453, 14200), (456, 14221), (463, 14257), (475, 14308), (486, 14365), (502, 14443), (504, 14452), (526, 14530), (539, 14587), (554, 14641), (599, 14881), (623, 14956), (651, 15067), (664, 15286), (666, 15298), (684, 15487), (685, 15496), (696, 15568), (705, 15598), (710, 15619),

(727, 15739), (738, 15811), (742, 15829), (743, 15835),

Gene: Adephagia_21 Start: 12079, Stop: 15915, Start Num: 15

Candidate Starts for Adephagia_21:

(Start: 15 @12079 has 162 MA's), (Start: 23 @12148 has 1 MA's), (31, 12235), (59, 12412), (67, 12439), (84, 12511), (85, 12523), (87, 12532), (99, 12604), (110, 12679), (129, 12763), (131, 12772), (134, 12793), (142, 12832), (158, 12910), (169, 12988), (184, 13078), (196, 13153), (214, 13246), (216, 13255), (218, 13267), (220, 13276), (271, 13537), (275, 13552), (282, 13585), (302, 13672), (309, 13696), (323, 13780), (338, 13864), (341, 13876), (345, 13897), (400, 14053), (439, 14134), (450, 14182), (453, 14200), (456, 14221), (463, 14257), (475, 14308), (486, 14365), (502, 14443), (504, 14452), (526, 14530), (539, 14587), (554, 14641), (599, 14881), (623, 14956), (651, 15067), (664, 15286), (666, 15298), (684, 15484), (685, 15493), (696, 15565), (705, 15595), (710, 15616), (727, 15736), (738, 15808), (742, 15826), (743, 15832),

Gene: Adonis_21 Start: 12088, Stop: 15921, Start Num: 15

Candidate Starts for Adonis_21:

(3, 11869), (10, 12049), (Start: 15 @12088 has 162 MA's), (Start: 23 @12157 has 1 MA's), (31, 12244), (59, 12421), (67, 12448), (85, 12532), (87, 12541), (99, 12613), (110, 12688), (129, 12772), (131, 12781), (134, 12802), (142, 12841), (158, 12919), (169, 12997), (184, 13087), (196, 13162), (214, 13255), (216, 13264), (218, 13276), (220, 13285), (255, 13468), (265, 13522), (275, 13561), (282, 13594), (302, 13681), (309, 13705), (323, 13789), (338, 13873), (341, 13885), (345, 13906), (400, 14062), (439, 14143), (450, 14191), (453, 14209), (456, 14230), (463, 14266), (475, 14317), (486, 14374), (502, 14452), (504, 14461), (526, 14539), (539, 14596), (554, 14650), (599, 14890), (623, 14965), (651, 15076), (664, 15295), (666, 15307), (684, 15490), (685, 15499), (705, 15601), (710, 15622), (727, 15742), (738, 15814), (742, 15832), (743, 15838),

Gene: Agent47_19 Start: 12236, Stop: 16342, Start Num: 14

Candidate Starts for Agent47_19:

(Start: 14 @12236 has 31 MA's), (Start: 24 @12329 has 1 MA's), (32, 12407), (33, 12431), (43, 12491), (62, 12575), (65, 12587), (87, 12689), (97, 12749), (99, 12761), (103, 12782), (110, 12836), (122, 12884), (131, 12929), (134, 12950), (158, 13067), (169, 13145), (174, 13169), (184, 13235), (196, 13310), (214, 13403), (220, 13433), (252, 13607), (255, 13616), (261, 13646), (265, 13670), (270, 13691), (284, 13751), (302, 13829), (305, 13838), (320, 13916), (331, 13982), (339, 14024), (341, 14033), (348, 14117), (354, 14138), (356, 14171), (369, 14237), (373, 14258), (383, 14312), (384, 14321), (388, 14339), (392, 14357), (393, 14366), (400, 14396), (406, 14432), (418, 14486), (426, 14522), (428, 14528), (429, 14546), (448, 14651), (460, 14717), (502, 14912), (510, 14942), (521, 14975), (534, 15026), (537, 15047), (541, 15062), (542, 15068), (558, 15152), (570, 15200), (581, 15239), (591, 15299), (598, 15332), (603, 15353), (611, 15377), (618, 15407), (644, 15473), (653, 15545), (676, 15860), (677, 15869), (678, 15872), (680, 15914), (684, 15941), (689, 15971), (696, 16022), (700, 16040), (717, 16106), (722, 16154), (727, 16178), (729, 16190), (744, 16271), (747, 16295), (753, 16334),

Gene: Ageofdapage_21 Start: 12015, Stop: 15848, Start Num: 15

Candidate Starts for Ageofdapage_21:

(Start: 15 @12015 has 162 MA's), (Start: 23 @12084 has 1 MA's), (31, 12171), (59, 12351), (67, 12378), (85, 12462), (87, 12471), (97, 12531), (99, 12543), (110, 12618), (119, 12660), (129, 12702), (131, 12711), (134, 12732), (142, 12771), (158, 12849), (169, 12927), (196, 13092), (214, 13185), (218, 13206), (220, 13215), (265, 13452), (271, 13476), (275, 13491), (282, 13524), (302, 13611), (323, 13719), (338, 13803), (341, 13815), (345, 13836), (353, 13917), (400, 13992), (439, 14073), (441, 14082), (450, 14121), (453, 14139), (456, 14160), (463, 14196), (475, 14247), (486, 14304), (502, 14382), (504, 14391), (526, 14469), (531, 14484), (539, 14526), (554, 14580), (599, 14820), (623, 14895), (651, 15006), (664, 15225), (676, 15339), (684, 15420), (685, 15429), (696, 15501), (705, 15531), (710, 15552), (727, 15669), (738, 15741), (743, 15765),

Gene: AlishaPH_21 Start: 12075, Stop: 15908, Start Num: 15

Candidate Starts for AlishaPH_21:

(Start: 15 @12075 has 162 MA's), (Start: 23 @12144 has 1 MA's), (31, 12231), (41, 12306), (59, 12408), (67, 12435), (84, 12507), (85, 12519), (87, 12528), (99, 12600), (110, 12675), (129, 12759), (131, 12768), (134, 12789), (142, 12828), (158, 12906), (169, 12984), (184, 13074), (196, 13149), (214, 13242), (216, 13251), (218, 13263), (220, 13272), (265, 13509), (275, 13548), (282, 13581), (302, 13668), (309, 13692), (323, 13776), (338, 13860), (341, 13872), (345, 13893), (400, 14049), (439, 14130), (450, 14178), (453, 14196), (456, 14217), (463, 14253), (475, 14304), (486, 14361), (502, 14439), (504, 14448), (526, 14526), (531, 14541), (539, 14583), (554, 14637), (599, 14877), (623, 14952), (651, 15063), (664, 15282), (666, 15294), (684, 15477), (685, 15486), (696, 15558), (705, 15588), (710, 15609), (727, 15729), (738, 15801), (742, 15819), (743, 15825),

Gene: AlleyCat_19 Start: 12112, Stop: 16224, Start Num: 14

Candidate Starts for AlleyCat_19:

(Start: 14 @12112 has 31 MA's), (Start: 24 @12205 has 1 MA's), (32, 12283), (33, 12307), (43, 12367), (62, 12451), (87, 12565), (97, 12625), (99, 12637), (103, 12658), (110, 12712), (122, 12760), (131, 12805), (134, 12826), (158, 12943), (169, 13021), (174, 13045), (180, 13087), (184, 13111), (196, 13186), (214, 13279), (220, 13309), (252, 13483), (261, 13522), (265, 13546), (270, 13567), (284, 13627), (302, 13705), (305, 13714), (320, 13792), (331, 13858), (339, 13900), (341, 13909), (348, 13993), (354, 14014), (356, 14047), (359, 14068), (369, 14113), (373, 14134), (383, 14188), (384, 14197), (388, 14215), (393, 14242), (400, 14272), (406, 14308), (426, 14398), (428, 14404), (429, 14422), (448, 14527), (460, 14593), (502, 14788), (510, 14818), (521, 14851), (534, 14902), (537, 14923), (541, 14938), (542, 14944), (558, 15028), (570, 15076), (581, 15115), (591, 15175), (598, 15208), (603, 15229), (611, 15253), (618, 15283), (644, 15349), (653, 15421), (676, 15736), (677, 15745), (678, 15748), (679, 15775), (680, 15790), (682, 15805), (684, 15817), (689, 15847), (696, 15901), (700, 15919), (717, 15988), (722, 16036), (727, 16060), (729, 16072), (731, 16081), (744, 16153), (747, 16177), (753, 16216),

Gene: Amelie_17 Start: 11327, Stop: 15460, Start Num: 15

Candidate Starts for Amelie_17:

(10, 11288), (Start: 15 @11327 has 162 MA's), (Start: 23 @11396 has 1 MA's), (31, 11483), (41, 11561), (62, 11669), (67, 11690), (74, 11723), (99, 11855), (101, 11870), (103, 11876), (110, 11930), (116, 11960), (131, 12023), (134, 12044), (142, 12083), (158, 12161), (169, 12239), (174, 12263), (214, 12497), (230, 12578), (240, 12638), (250, 12695), (260, 12731), (265, 12764), (271, 12788), (287, 12854), (290, 12863), (302, 12923), (323, 13031), (331, 13076), (354, 13232), (371, 13343), (373, 13352), (375, 13364), (384, 13415), (388, 13433), (393, 13460), (400, 13490), (419, 13583), (428, 13622), (456, 13790), (468, 13844), (475, 13877), (484, 13922), (502, 14003), (503, 14006), (526, 14090), (529, 14096), (531, 14105), (539, 14147), (552, 14183), (554, 14201), (558, 14240), (571, 14300), (599, 14441), (618, 14501), (623, 14516), (666, 14858), (684, 15047), (685, 15056), (694, 15119), (743, 15395),

Gene: Amgine_19 Start: 11863, Stop: 16011, Start Num: 15

Candidate Starts for Amgine_19:

(Start: 15 @11863 has 162 MA's), (Start: 23 @11932 has 1 MA's), (41, 12094), (59, 12196), (62, 12202), (67, 12223), (97, 12376), (99, 12388), (110, 12463), (131, 12556), (134, 12577), (142, 12616), (158, 12694), (169, 12772), (174, 12796), (182, 12850), (184, 12862), (196, 12937), (214, 13030), (230, 13111), (241, 13174), (250, 13228), (257, 13249), (259, 13261), (265, 13297), (270, 13318), (277, 13345), (282, 13369), (288, 13390), (293, 13411), (302, 13456), (322, 13582), (331, 13630), (343, 13690), (344, 13696), (354, 13786), (371, 13897), (381, 13948), (382, 13954), (392, 14005), (400, 14044), (403, 14065), (428, 14176), (437, 14236), (442, 14269), (445, 14287), (450, 14305), (453, 14323), (455, 14335), (463, 14380), (475, 14431), (482, 14479), (502, 14557), (526, 14644), (529, 14650), (543, 14716), (546, 14719), (558, 14794), (574, 14860), (599, 14995), (618, 15055),

(623, 15070), (626, 15076), (677, 15526), (684, 15598), (685, 15607), (699, 15694), (727, 15847), (743, 15946), (747, 15973), (748, 15985),

Gene: Aminay_19 Start: 11993, Stop: 16294, Start Num: 15

Candidate Starts for Aminay_19:

(Start: 15 @11993 has 162 MA's), (17, 12002), (22, 12041), (Start: 24 @12083 has 1 MA's), (31, 12149), (34, 12194), (57, 12308), (68, 12356), (77, 12395), (78, 12398), (85, 12434), (97, 12503), (99, 12515), (101, 12530), (103, 12536), (131, 12683), (134, 12704), (142, 12743), (144, 12746), (158, 12821), (165, 12866), (169, 12899), (174, 12923), (184, 12989), (185, 12992), (188, 13010), (190, 13019), (194, 13052), (200, 13076), (204, 13097), (225, 13214), (251, 13355), (252, 13358), (255, 13367), (265, 13421), (266, 13427), (274, 13457), (281, 13490), (288, 13514), (295, 13541), (302, 13580), (306, 13595), (308, 13601), (314, 13628), (320, 13688), (322, 13706), (329, 13736), (332, 13757), (341, 13805), (342, 13808), (343, 13814), (345, 13826), (352, 13904), (373, 14030), (385, 14099), (389, 14117), (395, 14150), (396, 14153), (401, 14180), (415, 14234), (428, 14288), (433, 14327), (437, 14348), (440, 14372), (450, 14420), (460, 14480), (461, 14489), (467, 14546), (471, 14579), (473, 14588), (479, 14630), (487, 14696), (502, 14777), (504, 14786), (558, 14993), (599, 15194), (623, 15269), (635, 15299), (657, 15485), (677, 15749), (680, 15794), (684, 15821), (700, 15947), (706, 15965), (710, 15986), (716, 16043), (717, 16046), (726, 16118), (744, 16220), (747, 16244), (753, 16283),

Gene: Amohnition_20 Start: 12196, Stop: 16386, Start Num: 15

Candidate Starts for Amohnition_20:

(9, 12151), (Start: 15 @12196 has 162 MA's), (Start: 23 @12265 has 1 MA's), (31, 12352), (41, 12427), (57, 12514), (58, 12517), (74, 12589), (85, 12640), (87, 12649), (97, 12709), (99, 12721), (103, 12742), (110, 12796), (116, 12826), (131, 12889), (134, 12910), (142, 12949), (158, 13027), (169, 13105), (174, 13129), (184, 13195), (195, 13261), (204, 13303), (210, 13342), (212, 13354), (218, 13384), (220, 13393), (241, 13507), (244, 13522), (255, 13576), (261, 13606), (265, 13630), (270, 13651), (281, 13699), (293, 13744), (294, 13747), (302, 13789), (308, 13810), (317, 13858), (322, 13915), (325, 13930), (332, 13966), (334, 13978), (343, 14023), (344, 14029), (354, 14119), (392, 14338), (400, 14377), (403, 14398), (423, 14485), (428, 14509), (431, 14536), (432, 14539), (437, 14569), (445, 14620), (453, 14656), (475, 14764), (502, 14899), (503, 14902), (523, 14968), (525, 14974), (534, 15013), (550, 15085), (551, 15091), (554, 15112), (569, 15196), (575, 15226), (579, 15247), (582, 15259), (594, 15340), (600, 15373), (604, 15382), (607, 15388), (618, 15430), (636, 15481), (638, 15487), (664, 15778), (676, 15892), (677, 15901), (678, 15904), (684, 15973), (710, 16108), (718, 16177), (727, 16225), (743, 16321), (748, 16360),

Gene: Anaya_22 Start: 12098, Stop: 15934, Start Num: 15

Candidate Starts for Anaya_22:

(Start: 15 @12098 has 162 MA's), (Start: 23 @12167 has 1 MA's), (31, 12254), (59, 12431), (67, 12458), (84, 12530), (85, 12542), (87, 12551), (99, 12623), (110, 12698), (116, 12728), (129, 12782), (131, 12791), (134, 12812), (142, 12851), (158, 12929), (164, 12971), (169, 13007), (174, 13031), (184, 13097), (196, 13172), (214, 13265), (216, 13274), (218, 13286), (220, 13295), (265, 13532), (271, 13556), (275, 13571), (282, 13604), (302, 13691), (309, 13715), (323, 13799), (338, 13883), (341, 13895), (345, 13916), (400, 14072), (439, 14153), (453, 14219), (456, 14240), (463, 14276), (475, 14327), (486, 14384), (502, 14462), (504, 14471), (526, 14549), (539, 14606), (554, 14660), (599, 14900), (623, 14975), (626, 14981), (651, 15086), (664, 15305), (684, 15503), (685, 15512), (705, 15614), (710, 15635), (719, 15710), (727, 15755), (738, 15827), (742, 15845), (743, 15851),

Gene: Angel_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Angel_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814),

(258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: Angelica_21 Start: 12050, Stop: 15883, Start Num: 15

Candidate Starts for Angelica_21:

(Start: 15 @12050 has 162 MA's), (Start: 23 @12119 has 1 MA's), (31, 12206), (59, 12383), (67, 12410), (85, 12494), (87, 12503), (99, 12575), (110, 12650), (129, 12734), (131, 12743), (134, 12764), (142, 12803), (158, 12881), (169, 12959), (184, 13049), (196, 13124), (214, 13217), (218, 13238), (220, 13247), (265, 13484), (275, 13523), (282, 13556), (302, 13643), (309, 13667), (323, 13751), (338, 13835), (341, 13847), (345, 13868), (400, 14024), (439, 14105), (450, 14153), (453, 14171), (456, 14192), (463, 14228), (475, 14279), (486, 14336), (502, 14414), (504, 14423), (526, 14501), (531, 14516), (539, 14558), (554, 14612), (599, 14852), (623, 14927), (651, 15038), (664, 15257), (666, 15269), (684, 15452), (685, 15461), (705, 15563), (710, 15584), (727, 15704), (738, 15776), (742, 15794), (743, 15800),

Gene: Annihilator_16 Start: 11455, Stop: 15468, Start Num: 15

Candidate Starts for Annihilator_16:

(Start: 15 @11455 has 162 MA's), (34, 11656), (57, 11770), (67, 11812), (73, 11842), (99, 11977), (100, 11989), (103, 11998), (139, 12187), (142, 12205), (144, 12208), (149, 12229), (151, 12241), (162, 12313), (169, 12361), (192, 12493), (195, 12517), (210, 12598), (235, 12721), (248, 12805), (258, 12841), (265, 12886), (266, 12892), (293, 13000), (298, 13024), (302, 13045), (344, 13264), (362, 13414), (378, 13501), (399, 13609), (428, 13744), (445, 13855), (450, 13873), (455, 13903), (500, 14125), (507, 14149), (512, 14164), (517, 14185), (526, 14212), (534, 14239), (549, 14299), (566, 14389), (570, 14422), (587, 14485), (593, 14542), (599, 14575), (602, 14584), (678, 15088), (679, 15115), (682, 15145), (684, 15157), (685, 15166), (707, 15235), (728, 15316), (739, 15376), (743, 15394), (745, 15403),

Gene: Antsirabe_16 Start: 11833, Stop: 15810, Start Num: 16

Candidate Starts for Antsirabe_16:

(Start: 16 @11833 has 58 MA's), (25, 11926), (40, 12046), (50, 12109), (55, 12127), (70, 12190), (80, 12226), (91, 12298), (93, 12304), (98, 12331), (101, 12349), (108, 12394), (116, 12430), (120, 12445), (146, 12568), (152, 12610), (155, 12625), (161, 12661), (169, 12724), (173, 12745), (187, 12817), (190, 12835), (215, 12976), (222, 13018), (229, 13048), (230, 13051), (232, 13060), (234, 13069), (239, 13111), (254, 13183), (256, 13189), (259, 13204), (262, 13222), (263, 13225), (270, 13258), (277, 13285), (289, 13330), (302, 13393), (309, 13417), (312, 13429), (313, 13432), (333, 13561), (341, 13603), (342, 13606), (354, 13708), (363, 13768), (371, 13819), (386, 13903), (400, 13966), (411, 14023), (423, 14074), (426, 14092), (428, 14098), (435, 14149), (442, 14191), (460, 14287), (489, 14410), (493, 14428), (506, 14494), (508, 14509), (529, 14575), (540, 14629), (544, 14644), (559, 14725), (562, 14734), (583, 14827), (588, 14881), (589, 14884), (597, 14917), (620, 14992), (678, 15454), (679, 15481), (684, 15523), (696, 15610), (697, 15613), (702, 15631), (704, 15634), (723, 15718), (725, 15736),

Gene: Apocalypse_21 Start: 12053, Stop: 15886, Start Num: 15

Candidate Starts for Apocalypse_21:

(Start: 15 @12053 has 162 MA's), (Start: 23 @12122 has 1 MA's), (31, 12209), (59, 12386), (67, 12413), (85, 12497), (87, 12506), (99, 12578), (110, 12653), (129, 12737), (131, 12746), (134, 12767), (142, 12806), (158, 12884), (169, 12962), (174, 12986), (184, 13052), (196, 13127), (214, 13220), (216, 13229), (218, 13241), (220, 13250), (265, 13487), (275, 13526), (282, 13559), (302, 13646), (309, 13670), (323, 13754), (338, 13838), (341, 13850), (345, 13871), (400, 14027), (439, 14108),

(444, 14132), (450, 14156), (453, 14174), (456, 14195), (463, 14231), (475, 14282), (486, 14339), (502, 14417), (504, 14426), (526, 14504), (531, 14519), (539, 14561), (554, 14615), (599, 14855), (623, 14930), (651, 15041), (664, 15260), (666, 15272), (684, 15455), (685, 15464), (696, 15536), (705, 15566), (710, 15587), (727, 15707), (738, 15779), (742, 15797), (743, 15803),

Gene: Aroostook_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Aroostook_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: Asayake_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for Asayake_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (265, 13550), (275, 13589), (282, 13622), (302, 13709), (309, 13733), (323, 13817), (338, 13901), (341, 13913), (345, 13934), (400, 14090), (439, 14171), (450, 14219), (453, 14237), (456, 14258), (463, 14294), (475, 14345), (486, 14402), (502, 14480), (504, 14489), (526, 14567), (531, 14582), (539, 14624), (554, 14678), (599, 14918), (623, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (710, 15650), (727, 15770), (738, 15842), (742, 15860), (743, 15866),

Gene: Atiba_21 Start: 12042, Stop: 15878, Start Num: 15

Candidate Starts for Atiba_21:

(Start: 15 @12042 has 162 MA's), (Start: 23 @12111 has 1 MA's), (31, 12198), (59, 12375), (67, 12402), (84, 12474), (85, 12486), (87, 12495), (99, 12567), (110, 12642), (129, 12726), (131, 12735), (134, 12756), (142, 12795), (158, 12873), (169, 12951), (184, 13041), (196, 13116), (214, 13209), (216, 13218), (218, 13230), (220, 13239), (271, 13500), (275, 13515), (282, 13548), (302, 13635), (309, 13659), (323, 13743), (338, 13827), (341, 13839), (345, 13860), (400, 14016), (439, 14097), (450, 14145), (453, 14163), (456, 14184), (463, 14220), (475, 14271), (486, 14328), (502, 14406), (504, 14415), (526, 14493), (539, 14550), (554, 14604), (599, 14844), (623, 14919), (651, 15030), (664, 15249), (666, 15261), (684, 15447), (685, 15456), (696, 15528), (705, 15558), (710, 15579), (727, 15699), (738, 15771), (742, 15789), (743, 15795),

Gene: Avocado_16 Start: 11691, Stop: 15731, Start Num: 16

Candidate Starts for Avocado_16:

(Start: 16 @11691 has 58 MA's), (25, 11784), (29, 11814), (43, 11961), (62, 12045), (72, 12093), (99, 12231), (103, 12252), (110, 12306), (131, 12399), (134, 12420), (139, 12441), (142, 12459), (149, 12483), (151, 12495), (162, 12567), (165, 12582), (169, 12615), (192, 12747), (195, 12771), (200, 12792), (206, 12825), (210, 12852), (218, 12894), (225, 12942), (250, 13080), (251, 13083), (261, 13125), (276, 13194), (277, 13197), (294, 13266), (302, 13308), (318, 13386), (339, 13503), (341, 13512), (344, 13527), (351, 13608), (354, 13617), (362, 13677), (383, 13791), (393, 13845), (397, 13869), (399, 13872), (400, 13875), (405, 13905), (412, 13935), (432, 14037), (435, 14058), (454, 14163), (455, 14166), (490, 14319), (493, 14337), (507, 14403), (512, 14418), (519, 14442), (532, 14484), (534, 14493), (549, 14553), (566, 14643), (587, 14739), (593, 14796), (599, 14829), (630, 14904), (659, 15099), (676, 15309), (682, 15378), (684, 15390), (685, 15399), (689, 15420), (728,

15579), (743, 15657),

Gene: Avrafan_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Avrafan_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: AzulaCat_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for AzulaCat_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: BEEST_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for BEEST_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (265, 13550), (275, 13589), (282, 13622), (302, 13709), (309, 13733), (323, 13817), (338, 13901), (341, 13913), (345, 13934), (400, 14090), (439, 14171), (450, 14219), (453, 14237), (456, 14258), (463, 14294), (475, 14345), (486, 14402), (502, 14480), (504, 14489), (526, 14567), (531, 14582), (539, 14624), (554, 14678), (599, 14918), (623, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (710, 15650), (727, 15770), (738, 15842), (742, 15860), (743, 15866),

Gene: BGlluviae_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for BGlluviae_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (265, 13550), (275, 13589), (282, 13622), (302, 13709), (309, 13733), (323, 13817), (338, 13901), (341, 13913), (345, 13934), (400, 14090), (439, 14171), (450, 14219), (453, 14237), (456, 14258), (463, 14294), (475, 14345), (486, 14402), (502, 14480), (504, 14489), (526, 14567), (531, 14582), (539, 14624), (554, 14678), (599, 14918), (623, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (710, 15650), (727, 15770), (738, 15842), (742, 15860), (743, 15866),

Gene: BPs_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for BPs_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: BQuat_16 Start: 11455, Stop: 15468, Start Num: 15

Candidate Starts for BQuat_16:

(Start: 15 @11455 has 162 MA's), (34, 11656), (57, 11770), (67, 11812), (73, 11842), (99, 11977), (100, 11989), (103, 11998), (139, 12187), (142, 12205), (144, 12208), (149, 12229), (151, 12241), (162, 12313), (169, 12361), (192, 12493), (195, 12517), (210, 12598), (235, 12721), (248, 12805), (258, 12841), (265, 12886), (266, 12892), (293, 13000), (298, 13024), (302, 13045), (344, 13264), (362, 13414), (378, 13501), (399, 13609), (428, 13744), (445, 13855), (450, 13873), (455, 13903), (500, 14125), (507, 14149), (512, 14164), (517, 14185), (526, 14212), (534, 14239), (549, 14299), (566, 14389), (570, 14422), (587, 14485), (593, 14542), (599, 14575), (602, 14584), (678, 15088), (679, 15115), (682, 15145), (684, 15157), (685, 15166), (707, 15235), (728, 15316), (739, 15376), (743, 15394), (745, 15403),

Gene: BaghaKamala_21 Start: 12045, Stop: 15878, Start Num: 15

Candidate Starts for BaghaKamala_21:

(Start: 15 @12045 has 162 MA's), (Start: 23 @12114 has 1 MA's), (31, 12201), (41, 12276), (59, 12378), (67, 12405), (84, 12477), (85, 12489), (87, 12498), (99, 12570), (110, 12645), (129, 12729), (131, 12738), (134, 12759), (142, 12798), (151, 12834), (158, 12876), (169, 12954), (184, 13044), (196, 13119), (214, 13212), (216, 13221), (218, 13233), (220, 13242), (265, 13479), (275, 13518), (282, 13551), (302, 13638), (309, 13662), (323, 13746), (338, 13830), (341, 13842), (345, 13863), (400, 14019), (439, 14100), (450, 14148), (453, 14166), (456, 14187), (463, 14223), (475, 14274), (486, 14331), (502, 14409), (504, 14418), (526, 14496), (531, 14511), (539, 14553), (554, 14607), (599, 14847), (623, 14922), (651, 15033), (664, 15252), (666, 15264), (684, 15447), (685, 15456), (696, 15528), (705, 15558), (710, 15579), (727, 15699), (738, 15771), (742, 15789), (743, 15795),

Gene: Barkley26_16 Start: 11464, Stop: 15480, Start Num: 15

Candidate Starts for Barkley26_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15100), (679, 15127), (682, 15157), (684, 15169), (685, 15178), (707, 15247), (728, 15328), (739, 15388), (743, 15406), (745, 15415),

Gene: BarrelRoll_21 Start: 12068, Stop: 15901, Start Num: 15

Candidate Starts for BarrelRoll_21:

(Start: 15 @12068 has 162 MA's), (Start: 23 @12137 has 1 MA's), (31, 12224), (41, 12299), (59, 12401), (67, 12428), (84, 12500), (85, 12512), (87, 12521), (99, 12593), (110, 12668), (129, 12752), (131, 12761), (134, 12782), (142, 12821), (151, 12857), (158, 12899), (169, 12977), (184, 13067), (196, 13142), (214, 13235), (216, 13244), (218, 13256), (220, 13265), (265, 13502), (275, 13541), (282, 13574), (302, 13661), (309, 13685), (323, 13769), (338, 13853), (341, 13865), (345, 13886),

(400, 14042), (439, 14123), (450, 14171), (453, 14189), (456, 14210), (463, 14246), (475, 14297), (486, 14354), (502, 14432), (504, 14441), (526, 14519), (531, 14534), (539, 14576), (554, 14630), (599, 14870), (623, 14945), (651, 15056), (664, 15275), (666, 15287), (684, 15470), (685, 15479), (696, 15551), (705, 15581), (710, 15602), (727, 15722), (738, 15794), (742, 15812), (743, 15818),

Gene: Beezoo_21 Start: 12092, Stop: 15925, Start Num: 15

Candidate Starts for Beezoo_21:

(Start: 15 @12092 has 162 MA's), (Start: 23 @12161 has 1 MA's), (Start: 24 @12182 has 1 MA's), (31, 12248), (59, 12425), (67, 12452), (84, 12524), (85, 12536), (87, 12545), (99, 12617), (110, 12692), (129, 12776), (131, 12785), (134, 12806), (142, 12845), (158, 12923), (169, 13001), (184, 13091), (196, 13166), (214, 13259), (216, 13268), (218, 13280), (220, 13289), (265, 13526), (275, 13565), (282, 13598), (302, 13685), (309, 13709), (323, 13793), (338, 13877), (341, 13889), (342, 13892), (345, 13910), (400, 14066), (439, 14147), (450, 14195), (453, 14213), (456, 14234), (463, 14270), (475, 14321), (486, 14378), (502, 14456), (504, 14465), (526, 14543), (531, 14558), (539, 14600), (554, 14654), (599, 14894), (623, 14969), (651, 15080), (664, 15299), (666, 15311), (684, 15494), (685, 15503), (705, 15605), (710, 15626), (727, 15746), (738, 15818), (742, 15836), (743, 15842),

Gene: Bella96_21 Start: 12006, Stop: 15845, Start Num: 15

Candidate Starts for Bella96_21:

(Start: 15 @12006 has 162 MA's), (Start: 23 @12075 has 1 MA's), (31, 12162), (59, 12342), (67, 12369), (85, 12453), (87, 12462), (97, 12522), (99, 12534), (110, 12609), (119, 12651), (129, 12693), (131, 12702), (134, 12723), (142, 12762), (144, 12765), (158, 12840), (169, 12918), (196, 13083), (214, 13176), (218, 13197), (220, 13206), (265, 13443), (271, 13467), (275, 13482), (282, 13515), (302, 13602), (320, 13689), (323, 13710), (338, 13794), (341, 13806), (345, 13827), (400, 13983), (439, 14064), (453, 14130), (456, 14151), (463, 14187), (475, 14238), (479, 14256), (486, 14295), (502, 14373), (504, 14382), (526, 14460), (531, 14475), (539, 14517), (554, 14571), (599, 14811), (623, 14886), (651, 14997), (653, 15018), (654, 15039), (662, 15159), (676, 15333), (684, 15414), (685, 15423), (696, 15495), (705, 15525), (710, 15546), (727, 15666), (738, 15738), (742, 15756), (743, 15762),

Gene: Belladonna_21 Start: 12185, Stop: 15949, Start Num: 23

Candidate Starts for Belladonna_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (265, 13550), (275, 13589), (282, 13622), (302, 13709), (309, 13733), (323, 13817), (338, 13901), (341, 13913), (345, 13934), (400, 14090), (439, 14171), (450, 14219), (453, 14237), (456, 14258), (463, 14294), (475, 14345), (486, 14402), (502, 14480), (504, 14489), (526, 14567), (531, 14582), (539, 14624), (554, 14678), (599, 14918), (623, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (710, 15650), (727, 15770), (738, 15842), (742, 15860), (743, 15866),

Gene: Bern_23 Start: 12034, Stop: 15873, Start Num: 15

Candidate Starts for Bern_23:

(Start: 15 @12034 has 162 MA's), (Start: 23 @12103 has 1 MA's), (31, 12190), (59, 12370), (67, 12397), (85, 12481), (97, 12550), (99, 12562), (110, 12637), (123, 12688), (131, 12730), (134, 12751), (142, 12790), (158, 12868), (169, 12946), (196, 13111), (214, 13204), (218, 13225), (220, 13234), (265, 13471), (271, 13495), (275, 13510), (282, 13543), (302, 13630), (320, 13717), (323, 13738), (338, 13822), (341, 13834), (344, 13849), (345, 13855), (439, 14092), (450, 14140), (453, 14158), (456, 14179), (463, 14215), (468, 14233), (475, 14266), (502, 14401), (504, 14410), (526, 14488), (531, 14503), (539, 14545), (554, 14599), (599, 14839), (623, 14914), (651, 15025), (653, 15046), (654, 15067), (662, 15187), (676, 15361), (684, 15442), (685, 15451), (696, 15523), (705, 15553), (710, 15574), (727, 15694), (738, 15766), (742, 15784), (743, 15790),

Gene: Biglebops_17 Start: 11327, Stop: 15460, Start Num: 15

Candidate Starts for Biglebops_17:

(10, 11288), (Start: 15 @11327 has 162 MA's), (Start: 23 @11396 has 1 MA's), (31, 11483), (41, 11561), (62, 11669), (67, 11690), (74, 11723), (99, 11855), (101, 11870), (103, 11876), (110, 11930), (116, 11960), (131, 12023), (134, 12044), (142, 12083), (158, 12161), (169, 12239), (174, 12263), (214, 12497), (230, 12578), (240, 12638), (250, 12695), (260, 12731), (265, 12764), (271, 12788), (287, 12854), (290, 12863), (302, 12923), (323, 13031), (331, 13076), (354, 13232), (371, 13343), (373, 13352), (375, 13364), (384, 13415), (388, 13433), (393, 13460), (400, 13490), (419, 13583), (428, 13622), (456, 13790), (468, 13844), (475, 13877), (484, 13922), (502, 14003), (503, 14006), (526, 14090), (529, 14096), (531, 14105), (539, 14147), (552, 14183), (554, 14201), (558, 14240), (571, 14300), (599, 14441), (618, 14501), (623, 14516), (666, 14858), (684, 15047), (685, 15056), (694, 15119), (743, 15395),

Gene: Blizzard_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for Blizzard_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (265, 13550), (275, 13589), (282, 13622), (302, 13709), (309, 13733), (323, 13817), (338, 13901), (341, 13913), (345, 13934), (400, 14090), (439, 14171), (450, 14219), (453, 14237), (456, 14258), (463, 14294), (475, 14345), (486, 14402), (502, 14480), (504, 14489), (526, 14567), (531, 14582), (539, 14624), (554, 14678), (599, 14918), (623, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (710, 15650), (727, 15770), (738, 15842), (742, 15860), (743, 15866),

Gene: Boiiii_21 Start: 12118, Stop: 15951, Start Num: 15

Candidate Starts for Boiiii_21:

(Start: 15 @12118 has 162 MA's), (Start: 23 @12187 has 1 MA's), (31, 12274), (41, 12349), (59, 12451), (67, 12478), (84, 12550), (85, 12562), (87, 12571), (99, 12643), (110, 12718), (129, 12802), (131, 12811), (134, 12832), (142, 12871), (151, 12907), (158, 12949), (169, 13027), (184, 13117), (196, 13192), (214, 13285), (216, 13294), (218, 13306), (220, 13315), (265, 13552), (275, 13591), (282, 13624), (302, 13711), (309, 13735), (323, 13819), (338, 13903), (341, 13915), (345, 13936), (400, 14092), (439, 14173), (450, 14221), (453, 14239), (456, 14260), (463, 14296), (475, 14347), (486, 14404), (502, 14482), (504, 14491), (526, 14569), (531, 14584), (539, 14626), (554, 14680), (599, 14920), (623, 14995), (651, 15106), (664, 15325), (666, 15337), (684, 15520), (685, 15529), (696, 15601), (705, 15631), (710, 15652), (727, 15772), (738, 15844), (742, 15862), (743, 15868),

Gene: Boilgate_18 Start: 12212, Stop: 16429, Start Num: 24

Candidate Starts for Boilgate_18:

(8, 12077), (11, 12101), (Start: 16 @12122 has 58 MA's), (Start: 24 @12212 has 1 MA's), (34, 12323), (69, 12494), (74, 12512), (80, 12536), (84, 12551), (85, 12563), (97, 12632), (99, 12644), (103, 12665), (116, 12749), (129, 12803), (131, 12812), (134, 12833), (141, 12866), (142, 12872), (144, 12875), (148, 12890), (154, 12926), (158, 12950), (159, 12953), (169, 13028), (171, 13040), (183, 13115), (184, 13118), (185, 13121), (195, 13184), (216, 13295), (227, 13352), (237, 13406), (245, 13448), (255, 13496), (257, 13502), (260, 13517), (265, 13550), (273, 13583), (282, 13622), (283, 13625), (295, 13670), (302, 13709), (305, 13718), (308, 13730), (314, 13757), (325, 13850), (328, 13862), (334, 13919), (346, 14015), (364, 14090), (371, 14138), (372, 14144), (379, 14156), (394, 14192), (409, 14234), (451, 14432), (465, 14507), (493, 14624), (502, 14675), (503, 14678), (521, 14738), (522, 14741), (551, 14837), (561, 14915), (562, 14918), (589, 15074), (596, 15107), (597, 15116), (599, 15128), (608, 15152), (633, 15227), (636, 15236), (637, 15239), (643, 15263), (645, 15272), (646, 15275), (647, 15296), (654, 15368), (657, 15410), (659, 15440), (660, 15482), (665, 15554), (668, 15575), (674, 15662), (676, 15677), (684, 15758), (703, 15890), (740, 16112), (741, 16118),

(755, 16232), (756, 16262), (757, 16280), (758, 16322), (759, 16355), (760, 16418),

Gene: BoostSeason_17 Start: 10144, Stop: 13818, Start Num: 14

Candidate Starts for BoostSeason_17:

(Start: 14 @10144 has 31 MA's), (Start: 23 @10216 has 1 MA's), (66, 10450), (84, 10501), (99, 10594), (110, 10669), (131, 10762), (134, 10783), (139, 10804), (140, 10810), (158, 10900), (164, 10942), (169, 10978), (177, 11011), (178, 11023), (181, 11047), (184, 11068), (189, 11092), (190, 11098), (195, 11134), (196, 11143), (204, 11176), (206, 11188), (210, 11215), (248, 11398), (250, 11410), (252, 11416), (261, 11455), (265, 11479), (303, 11512), (308, 11530), (311, 11539), (322, 11572), (350, 11761), (351, 11767), (355, 11803), (361, 11830), (366, 11848), (370, 11866), (393, 11974), (401, 12007), (411, 12040), (427, 12094), (433, 12127), (437, 12148), (442, 12172), (447, 12202), (452, 12223), (509, 12445), (536, 12538), (557, 12616), (586, 12739), (631, 12892), (676, 13309), (677, 13318), (679, 13348), (687, 13408), (708, 13516), (727, 13648), (743, 13741),

Gene: BruceB_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for BruceB_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: Bryler_20 Start: 11095, Stop: 15096, Start Num: 16

Candidate Starts for Bryler_20:

(Start: 16 @11095 has 58 MA's), (26, 11188), (37, 11293), (42, 11320), (47, 11347), (50, 11365), (55, 11383), (60, 11407), (63, 11413), (69, 11440), (70, 11446), (80, 11482), (83, 11491), (86, 11515), (98, 11587), (101, 11605), (102, 11608), (128, 11737), (152, 11854), (166, 11950), (173, 11989), (179, 12019), (190, 12079), (222, 12262), (223, 12268), (224, 12271), (236, 12325), (239, 12355), (250, 12415), (254, 12427), (256, 12433), (259, 12448), (263, 12469), (266, 12487), (300, 12625), (302, 12637), (308, 12658), (316, 12697), (340, 12751), (341, 12757), (360, 12919), (373, 12982), (388, 13063), (391, 13078), (400, 13120), (410, 13171), (414, 13192), (421, 13222), (423, 13228), (428, 13252), (435, 13303), (445, 13363), (456, 13420), (463, 13456), (468, 13474), (475, 13507), (502, 13648), (503, 13651), (526, 13735), (534, 13762), (554, 13846), (599, 14086), (623, 14161), (665, 14494), (676, 14596), (677, 14605), (684, 14677), (696, 14761), (705, 14791), (710, 14812), (727, 14929), (738, 15004), (746, 15043), (747, 15055),

Gene: CLED96_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for CLED96_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: CREW_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for CREW_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (265, 13550), (275, 13589), (282, 13622), (302, 13709), (309, 13733), (323, 13817), (338, 13901), (341, 13913), (345, 13934), (400, 14090), (439, 14171), (450, 14219), (453, 14237), (456, 14258), (463, 14294), (475, 14345), (486, 14402), (502, 14480), (504, 14489), (526, 14567), (531, 14582), (539, 14624), (554, 14678), (599, 14918), (623, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (710, 15650), (727, 15770), (738, 15842), (742, 15860), (743, 15866),

Gene: Cain_20 Start: 11083, Stop: 15084, Start Num: 16

Candidate Starts for Cain_20:

(Start: 16 @11083 has 58 MA's), (26, 11176), (37, 11281), (42, 11308), (47, 11335), (50, 11353), (55, 11371), (60, 11395), (63, 11401), (69, 11428), (70, 11434), (80, 11470), (83, 11479), (86, 11503), (98, 11575), (101, 11593), (102, 11596), (128, 11725), (152, 11842), (166, 11938), (173, 11977), (179, 12007), (190, 12067), (222, 12250), (223, 12256), (224, 12259), (236, 12313), (239, 12343), (250, 12403), (254, 12415), (256, 12421), (259, 12436), (263, 12457), (266, 12475), (300, 12613), (302, 12625), (308, 12646), (316, 12685), (340, 12739), (341, 12745), (360, 12907), (373, 12970), (388, 13051), (391, 13066), (400, 13108), (410, 13159), (414, 13180), (421, 13210), (423, 13216), (428, 13240), (435, 13291), (445, 13351), (456, 13408), (463, 13444), (468, 13462), (475, 13495), (502, 13636), (503, 13639), (526, 13723), (534, 13750), (554, 13834), (599, 14074), (623, 14149), (665, 14482), (676, 14584), (677, 14593), (684, 14665), (696, 14749), (705, 14779), (710, 14800), (727, 14917), (738, 14992), (746, 15031), (747, 15043),

Gene: CallaLilly_22 Start: 12039, Stop: 15872, Start Num: 15

Candidate Starts for CallaLilly_22:

(Start: 15 @12039 has 162 MA's), (Start: 23 @12108 has 1 MA's), (Start: 24 @12129 has 1 MA's), (31, 12195), (59, 12372), (67, 12399), (84, 12471), (85, 12483), (87, 12492), (99, 12564), (110, 12639), (129, 12723), (131, 12732), (134, 12753), (142, 12792), (151, 12828), (158, 12870), (169, 12948), (184, 13038), (196, 13113), (214, 13206), (216, 13215), (218, 13227), (220, 13236), (265, 13473), (275, 13512), (282, 13545), (302, 13632), (309, 13656), (323, 13740), (338, 13824), (341, 13836), (345, 13857), (400, 14013), (439, 14094), (450, 14142), (453, 14160), (456, 14181), (463, 14217), (475, 14268), (486, 14325), (502, 14403), (504, 14412), (526, 14490), (531, 14505), (539, 14547), (554, 14601), (599, 14841), (623, 14916), (651, 15027), (664, 15246), (666, 15258), (684, 15441), (685, 15450), (696, 15522), (705, 15552), (710, 15573), (727, 15693), (738, 15765), (742, 15783), (743, 15789),

Gene: Cambiare_17 Start: 12153, Stop: 16196, Start Num: 16

Candidate Starts for Cambiare_17:

(Start: 16 @12153 has 58 MA's), (25, 12246), (29, 12276), (43, 12423), (62, 12507), (72, 12555), (99, 12693), (103, 12714), (110, 12768), (131, 12861), (134, 12882), (139, 12903), (142, 12921), (149, 12945), (151, 12957), (162, 13029), (165, 13044), (169, 13077), (192, 13209), (195, 13233), (200, 13254), (206, 13287), (210, 13314), (218, 13356), (225, 13404), (250, 13542), (251, 13545), (261, 13587), (276, 13656), (277, 13659), (294, 13728), (302, 13770), (318, 13848), (339, 13965), (341, 13974), (344, 13989), (351, 14070), (354, 14079), (362, 14139), (383, 14253), (393, 14307), (399, 14334), (410, 14388), (412, 14397), (421, 14439), (426, 14463), (428, 14469), (432, 14499), (435, 14520), (438, 14538), (446, 14583), (490, 14790), (492, 14805), (501, 14853), (507, 14874), (512, 14889), (519, 14913), (531, 14952), (532, 14955), (534, 14964), (538, 14991), (543, 15006), (556, 15057), (558, 15084), (584, 15189), (599, 15285), (623, 15360), (654, 15504), (667, 15705), (678, 15789), (679, 15816), (682, 15846), (684, 15858), (728, 16044), (743, 16122),

Gene: Camri_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Camri_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: Capricorn_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for Capricorn_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (265, 13550), (275, 13589), (282, 13622), (302, 13709), (309, 13733), (323, 13817), (338, 13901), (341, 13913), (345, 13934), (400, 14090), (439, 14171), (450, 14219), (453, 14237), (456, 14258), (463, 14294), (475, 14345), (486, 14402), (502, 14480), (504, 14489), (526, 14567), (531, 14582), (539, 14624), (554, 14678), (599, 14918), (623, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (710, 15650), (727, 15770), (738, 15842), (742, 15860), (743, 15866),

Gene: CaseJules_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for CaseJules_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (265, 13550), (275, 13589), (282, 13622), (302, 13709), (309, 13733), (323, 13817), (338, 13901), (341, 13913), (345, 13934), (400, 14090), (439, 14171), (450, 14219), (453, 14237), (456, 14258), (463, 14294), (475, 14345), (486, 14402), (502, 14480), (504, 14489), (526, 14567), (531, 14582), (539, 14624), (554, 14678), (599, 14918), (623, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (710, 15650), (727, 15770), (738, 15842), (742, 15860), (743, 15866),

Gene: CassieYates_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for CassieYates_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: Cedasite_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Cedasite_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273),

(362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: Chance64_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Chance64_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: Chancellor_22 Start: 13324, Stop: 17499, Start Num: 16

Candidate Starts for Chancellor_22:

(9, 13288), (Start: 16 @13324 has 58 MA's), (34, 13522), (85, 13762), (87, 13771), (103, 13864), (131, 14011), (134, 14032), (142, 14071), (144, 14074), (158, 14149), (169, 14227), (183, 14314), (184, 14317), (190, 14347), (194, 14380), (200, 14404), (215, 14488), (221, 14518), (225, 14545), (246, 14653), (249, 14674), (251, 14686), (255, 14698), (265, 14752), (302, 14911), (308, 14932), (323, 15040), (342, 15160), (400, 15520), (410, 15571), (412, 15580), (422, 15625), (426, 15646), (469, 15865), (470, 15877), (474, 15886), (493, 15958), (502, 16009), (503, 16012), (510, 16039), (539, 16138), (545, 16156), (558, 16231), (597, 16420), (599, 16432), (623, 16507), (654, 16693), (662, 16813), (670, 16921), (684, 17071), (700, 17191), (703, 17200), (705, 17203), (712, 17224), (720, 17302), (726, 17329), (743, 17425), (751, 17488),

Gene: CheetoDust_21 Start: 12093, Stop: 15926, Start Num: 15

Candidate Starts for CheetoDust_21:

(Start: 15 @12093 has 162 MA's), (Start: 23 @12162 has 1 MA's), (31, 12249), (59, 12426), (67, 12453), (84, 12525), (85, 12537), (87, 12546), (99, 12618), (110, 12693), (129, 12777), (131, 12786), (134, 12807), (142, 12846), (158, 12924), (169, 13002), (174, 13026), (184, 13092), (196, 13167), (214, 13260), (216, 13269), (218, 13281), (220, 13290), (265, 13527), (275, 13566), (282, 13599), (302, 13686), (309, 13710), (323, 13794), (338, 13878), (341, 13890), (345, 13911), (400, 14067), (439, 14148), (444, 14172), (450, 14196), (453, 14214), (456, 14235), (463, 14271), (475, 14322), (486, 14379), (502, 14457), (504, 14466), (526, 14544), (531, 14559), (539, 14601), (554, 14655), (599, 14895), (623, 14970), (651, 15081), (664, 15300), (666, 15312), (684, 15495), (685, 15504), (696, 15576), (705, 15606), (710, 15627), (727, 15747), (738, 15819), (742, 15837), (743, 15843),

Gene: Cheetobro_22 Start: 13324, Stop: 17496, Start Num: 16

Candidate Starts for Cheetobro_22:

(9, 13288), (Start: 16 @13324 has 58 MA's), (34, 13522), (85, 13762), (87, 13771), (103, 13864), (131, 14011), (134, 14032), (142, 14071), (144, 14074), (158, 14149), (169, 14227), (183, 14314), (184, 14317), (190, 14347), (194, 14380), (200, 14404), (215, 14488), (221, 14518), (225, 14545), (246, 14653), (249, 14674), (251, 14686), (255, 14698), (265, 14752), (302, 14911), (308, 14932), (323, 15040), (342, 15160), (400, 15520), (410, 15571), (412, 15580), (422, 15625), (426, 15646), (469, 15865), (470, 15877), (474, 15886), (493, 15958), (502, 16009), (503, 16012), (510, 16039), (539, 16138), (545, 16156), (558, 16231), (597, 16420), (599, 16432), (623, 16507), (654, 16693), (662, 16813), (670, 16921), (684, 17068), (700, 17188), (703, 17197), (705, 17200), (720, 17299), (726, 17326), (743, 17422), (751, 17485),

Gene: Cherrybomb426_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Cherrybomb426_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: Chris_20 Start: 11071, Stop: 15138, Start Num: 16

Candidate Starts for Chris_20:

(Start: 16 @11071 has 58 MA's), (26, 11164), (42, 11296), (47, 11323), (48, 11332), (49, 11338), (74, 11434), (98, 11563), (101, 11581), (102, 11584), (106, 11611), (110, 11641), (128, 11722), (133, 11752), (139, 11776), (152, 11839), (155, 11854), (168, 11950), (169, 11953), (178, 11995), (190, 12064), (222, 12247), (224, 12256), (234, 12298), (236, 12310), (250, 12400), (254, 12412), (256, 12418), (259, 12433), (262, 12451), (263, 12454), (269, 12484), (270, 12487), (300, 12610), (302, 12622), (304, 12628), (308, 12643), (310, 12649), (339, 12733), (346, 12802), (373, 12967), (382, 13015), (384, 13030), (400, 13105), (410, 13156), (414, 13177), (423, 13213), (428, 13237), (432, 13267), (453, 13384), (455, 13396), (456, 13405), (468, 13459), (475, 13492), (486, 13549), (502, 13627), (503, 13630), (526, 13714), (534, 13741), (545, 13789), (554, 13825), (558, 13864), (585, 13969), (599, 14065), (614, 14107), (623, 14140), (664, 14482), (684, 14680), (699, 14794), (727, 14968), (738, 15052), (743, 15073),

Gene: Clipper_23 Start: 12093, Stop: 15926, Start Num: 15

Candidate Starts for Clipper_23:

(Start: 15 @12093 has 162 MA's), (Start: 23 @12162 has 1 MA's), (31, 12249), (59, 12426), (67, 12453), (85, 12537), (87, 12546), (99, 12618), (110, 12693), (129, 12777), (131, 12786), (134, 12807), (142, 12846), (158, 12924), (169, 13002), (184, 13092), (196, 13167), (214, 13260), (216, 13269), (218, 13281), (220, 13290), (265, 13527), (275, 13566), (282, 13599), (302, 13686), (309, 13710), (323, 13794), (338, 13878), (341, 13890), (345, 13911), (400, 14067), (439, 14148), (444, 14172), (450, 14196), (453, 14214), (456, 14235), (463, 14271), (475, 14322), (486, 14379), (502, 14457), (504, 14466), (526, 14544), (531, 14559), (539, 14601), (554, 14655), (599, 14895), (623, 14970), (651, 15081), (664, 15300), (666, 15312), (684, 15495), (685, 15504), (696, 15576), (705, 15606), (710, 15627), (727, 15747), (738, 15819), (742, 15837), (743, 15843),

Gene: Coleslaw_16 Start: 11455, Stop: 15468, Start Num: 15

Candidate Starts for Coleslaw_16:

(Start: 15 @11455 has 162 MA's), (34, 11656), (57, 11770), (67, 11812), (73, 11842), (99, 11977), (100, 11989), (103, 11998), (139, 12187), (142, 12205), (144, 12208), (149, 12229), (151, 12241), (162, 12313), (169, 12361), (192, 12493), (195, 12517), (210, 12598), (235, 12721), (248, 12805), (258, 12841), (265, 12886), (266, 12892), (293, 13000), (298, 13024), (302, 13045), (344, 13264), (362, 13414), (378, 13501), (399, 13609), (428, 13744), (445, 13855), (450, 13873), (455, 13903), (500, 14125), (507, 14149), (512, 14164), (517, 14185), (526, 14212), (534, 14239), (549, 14299), (566, 14389), (570, 14422), (587, 14485), (593, 14542), (599, 14575), (602, 14584), (678, 15088), (679, 15115), (682, 15145), (684, 15157), (685, 15166), (707, 15235), (728, 15316), (739, 15376), (743, 15394), (745, 15403),

Gene: Collard_19 Start: 12197, Stop: 16303, Start Num: 14

Candidate Starts for Collard_19:

(Start: 14 @12197 has 31 MA's), (Start: 24 @12290 has 1 MA's), (32, 12368), (33, 12392), (43, 12452), (62, 12536), (65, 12548), (87, 12650), (97, 12710), (99, 12722), (103, 12743), (110, 12797), (122, 12845), (131, 12890), (134, 12911), (158, 13028), (169, 13106), (174, 13130), (184, 13196), (196, 13271), (214, 13364), (220, 13394), (252, 13568), (255, 13577), (261, 13607), (265, 13631), (270, 13652), (284, 13712), (302, 13790), (305, 13799), (320, 13877), (331, 13943), (339, 13985), (341, 13994), (348, 14078), (354, 14099), (356, 14132), (369, 14198), (373, 14219), (383, 14273), (384, 14282), (388, 14300), (392, 14318), (393, 14327), (400, 14357), (406, 14393), (418, 14447), (426, 14483), (428, 14489), (429, 14507), (448, 14612), (460, 14678), (502, 14873), (510, 14903), (521, 14936), (534, 14987), (537, 15008), (541, 15023), (542, 15029), (558, 15113), (570, 15161), (581, 15200), (591, 15260), (598, 15293), (603, 15314), (611, 15338), (618, 15368), (644, 15434), (653, 15506), (676, 15821), (677, 15830), (678, 15833), (680, 15875), (684, 15902), (689, 15932), (696, 15983), (700, 16001), (717, 16067), (722, 16115), (727, 16139), (729, 16151), (744, 16232), (747, 16256), (753, 16295),

Gene: Crespo_16 Start: 11465, Stop: 15478, Start Num: 15

Candidate Starts for Crespo_16:

(Start: 15 @11465 has 162 MA's), (34, 11666), (57, 11780), (67, 11822), (73, 11852), (99, 11987), (100, 11999), (103, 12008), (139, 12197), (142, 12215), (144, 12218), (149, 12239), (151, 12251), (162, 12323), (169, 12371), (192, 12503), (195, 12527), (210, 12608), (235, 12731), (248, 12815), (258, 12851), (265, 12896), (266, 12902), (293, 13010), (298, 13034), (302, 13055), (344, 13274), (362, 13424), (378, 13511), (399, 13619), (428, 13754), (445, 13865), (450, 13883), (455, 13913), (500, 14135), (507, 14159), (512, 14174), (517, 14195), (526, 14222), (534, 14249), (549, 14309), (566, 14399), (570, 14432), (587, 14495), (593, 14552), (599, 14585), (602, 14594), (678, 15098), (679, 15125), (682, 15155), (684, 15167), (685, 15176), (707, 15245), (728, 15326), (739, 15386), (743, 15404), (745, 15413),

Gene: CrimD_21 Start: 12051, Stop: 15887, Start Num: 15

Candidate Starts for CrimD_21:

(Start: 15 @12051 has 162 MA's), (Start: 23 @12120 has 1 MA's), (31, 12207), (59, 12387), (67, 12414), (85, 12498), (87, 12507), (97, 12567), (99, 12579), (110, 12654), (119, 12696), (129, 12738), (131, 12747), (134, 12768), (142, 12807), (158, 12885), (169, 12963), (196, 13128), (214, 13221), (216, 13230), (218, 13242), (220, 13251), (265, 13488), (271, 13512), (275, 13527), (282, 13560), (302, 13647), (309, 13671), (323, 13755), (338, 13839), (341, 13851), (345, 13872), (353, 13953), (394, 14010), (400, 14028), (439, 14109), (450, 14157), (453, 14175), (455, 14187), (456, 14196), (463, 14232), (475, 14283), (486, 14340), (502, 14418), (526, 14505), (531, 14520), (539, 14562), (554, 14616), (599, 14856), (623, 14931), (651, 15042), (664, 15261), (666, 15273), (676, 15375), (684, 15456), (685, 15465), (696, 15537), (705, 15567), (710, 15588), (727, 15708), (738, 15780), (742, 15798), (743, 15804),

Gene: Curiosium_22 Start: 11510, Stop: 15637, Start Num: 16

Candidate Starts for Curiosium_22:

(Start: 16 @11510 has 58 MA's), (20, 11537), (26, 11603), (42, 11735), (46, 11759), (53, 11789), (57, 11810), (60, 11822), (75, 11879), (76, 11882), (91, 11969), (98, 12002), (101, 12020), (102, 12023), (108, 12065), (117, 12110), (146, 12239), (152, 12281), (155, 12296), (156, 12305), (161, 12332), (169, 12395), (177, 12425), (190, 12506), (198, 12557), (214, 12644), (222, 12689), (232, 12731), (233, 12734), (234, 12740), (239, 12782), (250, 12842), (254, 12854), (256, 12860), (259, 12875), (262, 12893), (263, 12896), (266, 12914), (270, 12929), (285, 12989), (292, 13010), (295, 13025), (302, 13064), (307, 13082), (308, 13085), (338, 13262), (341, 13274), (343, 13283), (346, 13334), (353, 13376), (373, 13499), (377, 13523), (392, 13598), (404, 13664), (423, 13745), (432, 13799), (435, 13820), (438, 13838), (445, 13880), (450, 13898), (454, 13925), (456, 13937), (463, 13973), (468, 13991), (477, 14036), (502, 14165), (503, 14168), (526, 14252), (531, 14267), (538, 14306), (539, 14309), (554, 14363), (558, 14402), (574, 14468), (599, 14603), (639, 14729), (668, 15044), (676, 15125), (677, 15134), (684, 15206), (727, 15458), (738, 15530), (743, 15554), (747, 15581),

Gene: DMoney_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for DMoney_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: DNAIII_0016 Start: 11473, Stop: 15486, Start Num: 15

Candidate Starts for DNAIII_0016:

(Start: 15 @11473 has 162 MA's), (34, 11674), (57, 11788), (67, 11830), (73, 11860), (99, 11995), (100, 12007), (103, 12016), (139, 12205), (142, 12223), (144, 12226), (149, 12247), (151, 12259), (162, 12331), (169, 12379), (192, 12511), (195, 12535), (210, 12616), (235, 12739), (248, 12823), (258, 12859), (265, 12904), (266, 12910), (293, 13018), (298, 13042), (302, 13063), (344, 13282), (362, 13432), (378, 13519), (399, 13627), (428, 13762), (445, 13873), (450, 13891), (455, 13921), (500, 14143), (507, 14167), (512, 14182), (517, 14203), (526, 14230), (534, 14257), (549, 14317), (566, 14407), (570, 14440), (587, 14503), (593, 14560), (599, 14593), (602, 14602), (678, 15106), (679, 15133), (682, 15163), (684, 15175), (685, 15184), (707, 15253), (728, 15334), (739, 15394), (743, 15412), (745, 15421),

Gene: Dadosky_19 Start: 12113, Stop: 16225, Start Num: 14

Candidate Starts for Dadosky_19:

(Start: 14 @12113 has 31 MA's), (Start: 24 @12206 has 1 MA's), (32, 12284), (33, 12308), (43, 12368), (62, 12452), (87, 12566), (97, 12626), (99, 12638), (103, 12659), (110, 12713), (122, 12761), (131, 12806), (134, 12827), (158, 12944), (169, 13022), (174, 13046), (180, 13088), (184, 13112), (196, 13187), (214, 13280), (220, 13310), (252, 13484), (261, 13523), (265, 13547), (270, 13568), (284, 13628), (302, 13706), (320, 13793), (331, 13859), (339, 13901), (341, 13910), (348, 13994), (354, 14015), (356, 14048), (369, 14114), (373, 14135), (383, 14189), (384, 14198), (388, 14216), (393, 14243), (400, 14273), (406, 14309), (426, 14399), (428, 14405), (429, 14423), (448, 14528), (460, 14594), (502, 14789), (510, 14819), (521, 14852), (534, 14903), (537, 14924), (541, 14939), (542, 14945), (558, 15029), (570, 15077), (581, 15116), (591, 15176), (598, 15209), (603, 15230), (611, 15254), (618, 15284), (644, 15350), (653, 15422), (676, 15737), (677, 15746), (678, 15749), (679, 15776), (680, 15791), (682, 15806), (684, 15818), (689, 15848), (696, 15902), (700, 15920), (717, 15989), (722, 16037), (727, 16061), (729, 16073), (731, 16082), (744, 16154), (747, 16178), (753, 16217),

Gene: Dalmuri_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for Dalmuri_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (265, 13550), (275, 13589), (282, 13622), (302, 13709), (309, 13733), (323, 13817), (338, 13901), (341, 13913), (345, 13934), (400, 14090), (439, 14171), (450, 14219), (453, 14237), (456, 14258), (463, 14294), (475, 14345), (486, 14402), (502, 14480), (504, 14489), (526, 14567), (531, 14582), (539, 14624), (554, 14678), (599, 14918), (623, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (710, 15650), (727, 15770), (738, 15842), (742, 15860), (743, 15866),

Gene: Darionha_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Darionha_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: DarthP_20 Start: 12196, Stop: 16335, Start Num: 15

Candidate Starts for DarthP_20:

(9, 12151), (Start: 15 @12196 has 162 MA's), (Start: 23 @12265 has 1 MA's), (31, 12352), (41, 12427), (59, 12529), (62, 12535), (67, 12556), (74, 12589), (77, 12601), (85, 12640), (87, 12649), (97, 12709), (99, 12721), (103, 12742), (110, 12796), (116, 12826), (131, 12889), (134, 12910), (142, 12949), (158, 13027), (169, 13105), (174, 13129), (204, 13303), (210, 13342), (211, 13351), (212, 13354), (218, 13384), (241, 13507), (244, 13522), (250, 13561), (261, 13606), (265, 13630), (291, 13732), (293, 13744), (295, 13750), (302, 13789), (322, 13915), (325, 13930), (332, 13966), (334, 13978), (343, 14023), (354, 14119), (392, 14338), (400, 14377), (403, 14398), (423, 14485), (428, 14509), (431, 14536), (432, 14539), (437, 14569), (445, 14620), (453, 14656), (475, 14764), (502, 14899), (503, 14902), (523, 14968), (525, 14974), (534, 15013), (550, 15085), (551, 15091), (554, 15112), (569, 15196), (575, 15226), (579, 15247), (582, 15259), (594, 15340), (600, 15373), (604, 15382), (607, 15388), (618, 15430), (626, 15448), (636, 15481), (638, 15487), (652, 15532), (664, 15742), (676, 15841), (677, 15850), (678, 15853), (684, 15922), (710, 16057), (718, 16126), (727, 16174), (743, 16270), (748, 16309),

Gene: Dartin_21 Start: 11128, Stop: 15282, Start Num: 16

Candidate Starts for Dartin_21:

(9, 11086), (Start: 16 @11128 has 58 MA's), (26, 11221), (47, 11380), (53, 11407), (75, 11497), (76, 11500), (91, 11587), (109, 11695), (125, 11764), (129, 11782), (146, 11866), (152, 11908), (155, 11923), (156, 11932), (161, 11959), (169, 12022), (178, 12064), (190, 12133), (201, 12196), (202, 12205), (222, 12319), (223, 12325), (232, 12361), (234, 12370), (236, 12382), (237, 12394), (239, 12412), (250, 12472), (254, 12484), (256, 12490), (259, 12505), (262, 12523), (263, 12526), (266, 12544), (270, 12559), (279, 12598), (295, 12655), (296, 12664), (302, 12694), (308, 12715), (315, 12745), (319, 12778), (333, 12862), (338, 12892), (341, 12904), (353, 13006), (365, 13084), (373, 13129), (377, 13153), (387, 13207), (388, 13210), (391, 13225), (400, 13267), (404, 13294), (406, 13303), (410, 13318), (411, 13324), (412, 13327), (438, 13468), (444, 13504), (445, 13510), (450, 13528), (454, 13555), (456, 13567), (468, 13621), (475, 13654), (487, 13714), (502, 13795), (503, 13798), (526, 13882), (531, 13897), (558, 14032), (574, 14098), (599, 14233), (662, 14584), (684, 14839), (685, 14848), (691, 14914), (727, 15109), (731, 15130), (738, 15181), (742, 15199), (743, 15205), (748, 15244),

Gene: Deby_21 Start: 12050, Stop: 15883, Start Num: 15

Candidate Starts for Deby_21:

(Start: 15 @12050 has 162 MA's), (Start: 23 @12119 has 1 MA's), (31, 12206), (59, 12383), (67, 12410), (85, 12494), (87, 12503), (99, 12575), (110, 12650), (129, 12734), (131, 12743), (134, 12764), (142, 12803), (158, 12881), (169, 12959), (184, 13049), (196, 13124), (214, 13217), (218, 13238), (220, 13247), (265, 13484), (275, 13523), (282, 13556), (302, 13643), (309, 13667), (323, 13751), (338, 13835), (341, 13847), (345, 13868), (400, 14024), (439, 14105), (450, 14153), (453, 14171), (456, 14192), (463, 14228), (475, 14279), (486, 14336), (502, 14414), (504, 14423), (526, 14501), (531, 14516), (539, 14558), (554, 14612), (599, 14852), (623, 14927), (651, 15038), (664, 15257),

(666, 15269), (684, 15452), (685, 15461), (705, 15563), (710, 15584), (727, 15704), (738, 15776),
(742, 15794), (743, 15800),

Gene: Devera_21 Start: 12075, Stop: 15929, Start Num: 15

Candidate Starts for Devera_21:

(Start: 15 @12075 has 162 MA's), (Start: 23 @12144 has 1 MA's), (31, 12231), (59, 12411), (67, 12438), (85, 12522), (87, 12531), (97, 12591), (99, 12603), (110, 12678), (119, 12720), (129, 12762), (131, 12771), (134, 12792), (142, 12831), (158, 12909), (164, 12951), (169, 12987), (196, 13152), (214, 13245), (218, 13266), (220, 13275), (271, 13557), (275, 13572), (282, 13605), (302, 13692), (323, 13800), (338, 13884), (341, 13896), (345, 13917), (400, 14073), (439, 14154), (450, 14202), (453, 14220), (456, 14241), (463, 14277), (475, 14328), (486, 14385), (502, 14463), (504, 14472), (526, 14550), (531, 14565), (539, 14607), (554, 14661), (578, 14778), (599, 14901), (623, 14976), (654, 15129), (664, 15306), (676, 15420), (684, 15501), (685, 15510), (696, 15582), (705, 15612), (710, 15633), (727, 15750), (738, 15822), (743, 15846),

Gene: DismalFunk_17 Start: 10116, Stop: 13784, Start Num: 14

Candidate Starts for DismalFunk_17:

(Start: 14 @10116 has 31 MA's), (Start: 23 @10188 has 1 MA's), (66, 10422), (84, 10473), (99, 10566), (103, 10587), (110, 10641), (131, 10734), (134, 10755), (139, 10776), (140, 10782), (158, 10872), (164, 10914), (169, 10950), (177, 10983), (178, 10995), (181, 11019), (184, 11040), (189, 11064), (190, 11070), (195, 11106), (196, 11115), (204, 11148), (206, 11160), (210, 11187), (248, 11370), (250, 11382), (252, 11388), (258, 11406), (261, 11427), (265, 11451), (280, 11475), (303, 11484), (307, 11499), (311, 11511), (322, 11544), (331, 11592), (350, 11733), (351, 11739), (355, 11775), (361, 11802), (366, 11820), (393, 11946), (411, 12012), (427, 12066), (433, 12099), (437, 12120), (442, 12144), (447, 12174), (452, 12195), (509, 12417), (536, 12510), (557, 12588), (586, 12711), (612, 12816), (631, 12864), (671, 13251), (676, 13281), (677, 13290), (679, 13320), (708, 13485), (727, 13614), (743, 13707),

Gene: DismalStressor_17 Start: 10116, Stop: 13784, Start Num: 14

Candidate Starts for DismalStressor_17:

(Start: 14 @10116 has 31 MA's), (Start: 23 @10188 has 1 MA's), (66, 10422), (84, 10473), (99, 10566), (103, 10587), (110, 10641), (131, 10734), (134, 10755), (139, 10776), (140, 10782), (158, 10872), (164, 10914), (169, 10950), (177, 10983), (178, 10995), (181, 11019), (184, 11040), (189, 11064), (190, 11070), (195, 11106), (196, 11115), (204, 11148), (206, 11160), (210, 11187), (248, 11370), (250, 11382), (252, 11388), (258, 11406), (261, 11427), (265, 11451), (280, 11475), (303, 11484), (307, 11499), (311, 11511), (322, 11544), (331, 11592), (350, 11733), (351, 11739), (355, 11775), (361, 11802), (366, 11820), (393, 11946), (411, 12012), (427, 12066), (433, 12099), (437, 12120), (442, 12144), (447, 12174), (452, 12195), (509, 12417), (536, 12510), (557, 12588), (586, 12711), (612, 12816), (631, 12864), (671, 13251), (676, 13281), (677, 13290), (679, 13320), (708, 13485), (727, 13614), (743, 13707),

Gene: Dole_21 Start: 12077, Stop: 15931, Start Num: 15

Candidate Starts for Dole_21:

(Start: 15 @12077 has 162 MA's), (Start: 23 @12146 has 1 MA's), (31, 12233), (59, 12413), (67, 12440), (85, 12524), (87, 12533), (97, 12593), (99, 12605), (110, 12680), (119, 12722), (129, 12764), (131, 12773), (134, 12794), (142, 12833), (158, 12911), (164, 12953), (169, 12989), (196, 13154), (214, 13247), (218, 13268), (220, 13277), (271, 13559), (275, 13574), (282, 13607), (302, 13694), (323, 13802), (338, 13886), (341, 13898), (345, 13919), (400, 14075), (439, 14156), (450, 14204), (453, 14222), (456, 14243), (463, 14279), (475, 14330), (486, 14387), (502, 14465), (504, 14474), (526, 14552), (531, 14567), (539, 14609), (554, 14663), (578, 14780), (599, 14903), (623, 14978), (654, 15131), (664, 15308), (676, 15422), (684, 15503), (685, 15512), (696, 15584), (705, 15614), (710, 15635), (727, 15752), (738, 15824), (743, 15848),

Gene: DrHayes_21 Start: 12024, Stop: 15863, Start Num: 15

Candidate Starts for DrHayes_21:

(Start: 15 @12024 has 162 MA's), (Start: 23 @12093 has 1 MA's), (31, 12180), (59, 12360), (67, 12387), (85, 12471), (87, 12480), (97, 12540), (99, 12552), (110, 12627), (123, 12678), (131, 12720), (134, 12741), (142, 12780), (158, 12858), (169, 12936), (174, 12960), (196, 13101), (214, 13194), (218, 13215), (220, 13224), (265, 13461), (271, 13485), (275, 13500), (282, 13533), (302, 13620), (320, 13707), (323, 13728), (338, 13812), (341, 13824), (345, 13845), (400, 14001), (439, 14082), (453, 14148), (456, 14169), (463, 14205), (475, 14256), (479, 14274), (486, 14313), (502, 14391), (526, 14478), (531, 14493), (539, 14535), (554, 14589), (599, 14829), (623, 14904), (651, 15015), (653, 15036), (654, 15057), (662, 15177), (676, 15351), (684, 15432), (685, 15441), (696, 15513), (705, 15543), (710, 15564), (727, 15684), (738, 15756), (742, 15774), (743, 15780),

Gene: Durfee_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for Durfee_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (265, 13550), (275, 13589), (282, 13622), (302, 13709), (309, 13733), (323, 13817), (338, 13901), (341, 13913), (345, 13934), (400, 14090), (439, 14171), (450, 14219), (453, 14237), (456, 14258), (463, 14294), (475, 14345), (486, 14402), (502, 14480), (504, 14489), (526, 14567), (531, 14582), (539, 14624), (554, 14678), (599, 14918), (623, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (710, 15650), (727, 15770), (738, 15842), (742, 15860), (743, 15866),

Gene: ECartman_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for ECartman_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: Edugator_18 Start: 12113, Stop: 16225, Start Num: 14

Candidate Starts for Edugator_18:

(Start: 12 @12092 has 1 MA's), (Start: 14 @12113 has 31 MA's), (Start: 24 @12206 has 1 MA's), (32, 12284), (33, 12308), (43, 12368), (62, 12452), (87, 12566), (97, 12626), (99, 12638), (103, 12659), (110, 12713), (122, 12761), (131, 12806), (134, 12827), (158, 12944), (169, 13022), (174, 13046), (180, 13088), (184, 13112), (196, 13187), (214, 13280), (220, 13310), (252, 13484), (261, 13523), (265, 13547), (270, 13568), (284, 13628), (302, 13706), (320, 13793), (331, 13859), (339, 13901), (341, 13910), (348, 13994), (354, 14015), (356, 14048), (369, 14114), (373, 14135), (383, 14189), (384, 14198), (388, 14216), (393, 14243), (400, 14273), (406, 14309), (426, 14399), (428, 14405), (429, 14423), (448, 14528), (460, 14594), (502, 14789), (510, 14819), (521, 14852), (534, 14903), (537, 14924), (541, 14939), (542, 14945), (558, 15029), (570, 15077), (581, 15116), (591, 15176), (598, 15209), (603, 15230), (611, 15254), (618, 15284), (644, 15350), (653, 15422), (676, 15737), (677, 15746), (678, 15749), (679, 15776), (680, 15791), (682, 15806), (684, 15818), (689, 15848), (696, 15902), (700, 15920), (717, 15989), (722, 16037), (727, 16061), (729, 16073), (731, 16082), (744, 16154), (747, 16178), (753, 16217),

Gene: Efra2_21 Start: 11000, Stop: 15127, Start Num: 16

Candidate Starts for Efra2_21:

(9, 10952), (Start: 16 @11000 has 58 MA's), (26, 11093), (42, 11225), (46, 11249), (53, 11279), (57, 11300), (60, 11312), (76, 11372), (91, 11459), (98, 11492), (101, 11510), (102, 11513), (114, 11585), (146, 11729), (152, 11771), (155, 11786), (161, 11822), (170, 11894), (190, 11996), (222, 12179), (228, 12206), (233, 12224), (234, 12230), (239, 12272), (254, 12344), (256, 12350), (259, 12365), (263, 12386), (266, 12404), (270, 12419), (281, 12467), (292, 12500), (295, 12515), (302, 12554), (308, 12575), (315, 12605), (343, 12773), (346, 12824), (373, 12989), (377, 13013), (388, 13070), (397, 13121), (404, 13154), (406, 13163), (423, 13235), (435, 13310), (438, 13328), (445, 13370), (450, 13388), (454, 13415), (456, 13427), (480, 13556), (487, 13574), (502, 13655), (503, 13658), (526, 13742), (538, 13796), (539, 13799), (558, 13892), (574, 13958), (599, 14093), (639, 14219), (676, 14615), (677, 14624), (684, 14696), (696, 14780), (705, 14810), (709, 14831), (727, 14948), (738, 15020), (743, 15044), (748, 15083),

Gene: Ekdilam_18 Start: 11907, Stop: 16097, Start Num: 15

Candidate Starts for Ekdilam_18:

(9, 11862), (Start: 15 @11907 has 162 MA's), (Start: 23 @11976 has 1 MA's), (31, 12063), (41, 12138), (59, 12240), (67, 12267), (74, 12300), (77, 12312), (85, 12351), (97, 12420), (99, 12432), (103, 12453), (110, 12507), (114, 12531), (116, 12537), (131, 12600), (134, 12621), (142, 12660), (149, 12684), (158, 12738), (169, 12816), (174, 12840), (186, 12915), (204, 13014), (210, 13053), (212, 13065), (218, 13095), (241, 13218), (244, 13233), (250, 13272), (255, 13287), (265, 13341), (293, 13455), (294, 13458), (302, 13500), (308, 13521), (322, 13626), (325, 13641), (329, 13656), (332, 13677), (334, 13689), (343, 13734), (354, 13830), (373, 13950), (400, 14088), (403, 14109), (423, 14196), (428, 14220), (431, 14247), (432, 14250), (437, 14280), (445, 14331), (453, 14367), (475, 14475), (502, 14610), (503, 14613), (523, 14679), (525, 14685), (534, 14724), (550, 14796), (551, 14802), (554, 14823), (569, 14907), (575, 14937), (579, 14958), (582, 14970), (594, 15051), (600, 15084), (604, 15093), (607, 15099), (618, 15141), (626, 15159), (636, 15192), (638, 15198), (664, 15486), (676, 15600), (677, 15609), (678, 15612), (684, 15681), (710, 15813), (727, 15933), (739, 16011), (743, 16032), (748, 16071),

Gene: Ellie_18 Start: 11944, Stop: 16092, Start Num: 15

Candidate Starts for Ellie_18:

(Start: 15 @11944 has 162 MA's), (Start: 23 @12013 has 1 MA's), (41, 12175), (59, 12277), (62, 12283), (67, 12304), (97, 12457), (99, 12469), (110, 12544), (116, 12574), (131, 12637), (134, 12658), (142, 12697), (158, 12775), (169, 12853), (174, 12877), (184, 12943), (196, 13018), (214, 13111), (230, 13192), (241, 13255), (250, 13309), (251, 13312), (257, 13330), (259, 13342), (270, 13399), (277, 13426), (282, 13450), (288, 13471), (293, 13492), (302, 13537), (331, 13711), (354, 13867), (373, 13987), (381, 14029), (382, 14035), (394, 14107), (400, 14125), (403, 14146), (428, 14257), (437, 14317), (442, 14350), (445, 14368), (450, 14386), (453, 14404), (455, 14416), (463, 14461), (475, 14512), (482, 14560), (502, 14638), (526, 14725), (529, 14731), (531, 14740), (543, 14797), (546, 14800), (558, 14875), (574, 14941), (599, 15076), (618, 15136), (623, 15151), (626, 15157), (677, 15607), (684, 15679), (685, 15688), (699, 15775), (727, 15928), (743, 16027), (747, 16054), (748, 16066),

Gene: Emerson_21 Start: 12076, Stop: 15909, Start Num: 15

Candidate Starts for Emerson_21:

(Start: 15 @12076 has 162 MA's), (Start: 23 @12145 has 1 MA's), (31, 12232), (41, 12307), (59, 12409), (67, 12436), (84, 12508), (85, 12520), (87, 12529), (99, 12601), (110, 12676), (129, 12760), (131, 12769), (134, 12790), (142, 12829), (158, 12907), (169, 12985), (184, 13075), (196, 13150), (214, 13243), (216, 13252), (218, 13264), (220, 13273), (265, 13510), (275, 13549), (282, 13582), (302, 13669), (309, 13693), (323, 13777), (338, 13861), (341, 13873), (345, 13894), (400, 14050), (439, 14131), (450, 14179), (453, 14197), (456, 14218), (463, 14254), (475, 14305), (486, 14362), (502, 14440), (504, 14449), (526, 14527), (531, 14542), (539, 14584), (554, 14638), (599, 14878), (623, 14953), (651, 15064), (664, 15283), (666, 15295), (684, 15478), (685, 15487), (696, 15559),

(705, 15589), (710, 15610), (727, 15730), (738, 15802), (742, 15820), (743, 15826),

Gene: Enkosi_17 Start: 11327, Stop: 15460, Start Num: 15

Candidate Starts for Enkosi_17:

(10, 11288), (Start: 15 @11327 has 162 MA's), (Start: 23 @11396 has 1 MA's), (31, 11483), (41, 11561), (62, 11669), (67, 11690), (74, 11723), (99, 11855), (101, 11870), (103, 11876), (110, 11930), (116, 11960), (131, 12023), (134, 12044), (142, 12083), (158, 12161), (169, 12239), (174, 12263), (214, 12497), (230, 12578), (240, 12638), (250, 12695), (260, 12731), (265, 12764), (271, 12788), (287, 12854), (290, 12863), (302, 12923), (323, 13031), (331, 13076), (354, 13232), (371, 13343), (373, 13352), (375, 13364), (384, 13415), (388, 13433), (393, 13460), (400, 13490), (419, 13583), (428, 13622), (456, 13790), (468, 13844), (475, 13877), (484, 13922), (502, 14003), (503, 14006), (526, 14090), (529, 14096), (531, 14105), (539, 14147), (552, 14183), (554, 14201), (558, 14240), (571, 14300), (599, 14441), (618, 14501), (623, 14516), (666, 14858), (684, 15047), (685, 15056), (694, 15119), (743, 15395),

Gene: Eponine_22 Start: 13193, Stop: 17389, Start Num: 16

Candidate Starts for Eponine_22:

(Start: 16 @13193 has 58 MA's), (34, 13391), (80, 13604), (85, 13631), (87, 13640), (99, 13712), (103, 13733), (129, 13871), (131, 13880), (134, 13901), (142, 13940), (156, 14009), (158, 14018), (169, 14096), (171, 14108), (184, 14186), (190, 14216), (194, 14249), (195, 14252), (200, 14273), (225, 14414), (227, 14423), (251, 14555), (255, 14567), (265, 14621), (275, 14660), (282, 14693), (302, 14780), (308, 14801), (332, 14978), (342, 15029), (360, 15188), (400, 15389), (410, 15440), (412, 15449), (422, 15494), (426, 15515), (430, 15521), (449, 15626), (451, 15635), (469, 15734), (470, 15746), (474, 15755), (493, 15827), (498, 15860), (502, 15878), (503, 15881), (510, 15908), (539, 16007), (545, 16025), (558, 16100), (597, 16289), (599, 16301), (623, 16376), (641, 16445), (654, 16577), (660, 16691), (684, 16958), (687, 16976), (703, 17087), (705, 17090), (720, 17189), (726, 17216), (727, 17219), (743, 17315), (751, 17378),

Gene: FF47_19 Start: 11405, Stop: 14815, Start Num: 28

Candidate Starts for FF47_19:

(Start: 28 @11405 has 2 MA's), (30, 11420), (36, 11468), (38, 11471), (45, 11516), (82, 11639), (143, 11966), (147, 11978), (150, 11999), (163, 12083), (170, 12137), (172, 12146), (181, 12200), (187, 12233), (188, 12242), (193, 12284), (204, 12329), (206, 12341), (209, 12362), (214, 12386), (224, 12440), (238, 12494), (243, 12515), (245, 12527), (249, 12551), (250, 12560), (268, 12638), (318, 12695), (335, 12764), (366, 12974), (374, 13013), (376, 13025), (391, 13088), (400, 13130), (402, 13148), (425, 13235), (430, 13259), (434, 13286), (437, 13298), (457, 13406), (458, 13415), (485, 13508), (494, 13538), (496, 13559), (503, 13574), (546, 13685), (553, 13706), (565, 13781), (587, 13877), (594, 13934), (599, 13967), (605, 13982), (658, 14213), (675, 14408), (685, 14504), (688, 14522), (694, 14564), (695, 14570), (703, 14597), (722, 14699), (724, 14708), (731, 14747),

Gene: Fefferhead_20 Start: 12111, Stop: 16259, Start Num: 15

Candidate Starts for Fefferhead_20:

(Start: 15 @12111 has 162 MA's), (Start: 23 @12180 has 1 MA's), (41, 12342), (59, 12444), (62, 12450), (67, 12471), (97, 12624), (99, 12636), (110, 12711), (131, 12804), (134, 12825), (142, 12864), (158, 12942), (169, 13020), (174, 13044), (182, 13098), (184, 13110), (196, 13185), (214, 13278), (230, 13359), (241, 13422), (250, 13476), (257, 13497), (259, 13509), (265, 13545), (270, 13566), (275, 13584), (282, 13617), (288, 13638), (290, 13644), (293, 13659), (295, 13665), (302, 13704), (331, 13878), (354, 14034), (381, 14196), (382, 14202), (392, 14253), (400, 14292), (403, 14313), (428, 14424), (437, 14484), (442, 14517), (445, 14535), (450, 14553), (453, 14571), (455, 14583), (463, 14628), (475, 14679), (482, 14727), (502, 14805), (504, 14814), (526, 14892), (529, 14898), (531, 14907), (543, 14964), (546, 14967), (558, 15042), (574, 15108), (599, 15243), (618, 15303), (623, 15318), (626, 15324), (677, 15774), (684, 15846), (685, 15855), (699, 15942), (727, 16095), (743, 16194), (747, 16221), (748, 16233),

Gene: Feyre_19 Start: 12055, Stop: 16164, Start Num: 14

Candidate Starts for Feyre_19:

(Start: 14 @12055 has 31 MA's), (43, 12313), (62, 12397), (77, 12463), (84, 12490), (87, 12511), (97, 12571), (99, 12583), (103, 12604), (110, 12658), (116, 12688), (131, 12751), (134, 12772), (158, 12889), (164, 12931), (165, 12934), (169, 12967), (177, 13000), (214, 13225), (217, 13237), (218, 13246), (237, 13324), (248, 13387), (251, 13402), (252, 13405), (255, 13414), (257, 13420), (259, 13432), (260, 13435), (265, 13468), (269, 13486), (271, 13492), (295, 13588), (302, 13627), (331, 13780), (339, 13822), (344, 13846), (354, 13936), (356, 13969), (383, 14110), (384, 14119), (388, 14137), (393, 14164), (409, 14242), (428, 14326), (448, 14449), (460, 14515), (481, 14617), (502, 14710), (504, 14719), (510, 14740), (521, 14773), (534, 14824), (537, 14845), (541, 14860), (542, 14866), (558, 14950), (568, 14980), (570, 14998), (581, 15037), (591, 15097), (598, 15130), (603, 15151), (611, 15175), (618, 15208), (644, 15292), (653, 15364), (676, 15673), (680, 15727), (682, 15742), (684, 15754), (689, 15784), (722, 15970), (727, 15994), (729, 16006), (744, 16093), (747, 16117),

Gene: Findley_17 Start: 10116, Stop: 13787, Start Num: 14

Candidate Starts for Findley_17:

(Start: 14 @10116 has 31 MA's), (Start: 23 @10188 has 1 MA's), (66, 10422), (84, 10473), (99, 10566), (103, 10587), (110, 10641), (131, 10734), (134, 10755), (139, 10776), (140, 10782), (158, 10872), (164, 10914), (169, 10950), (177, 10983), (178, 10995), (181, 11019), (184, 11040), (189, 11064), (190, 11070), (195, 11106), (196, 11115), (204, 11148), (206, 11160), (210, 11187), (248, 11370), (250, 11382), (252, 11388), (258, 11406), (261, 11427), (265, 11451), (280, 11475), (303, 11484), (307, 11499), (311, 11511), (322, 11544), (331, 11592), (350, 11733), (351, 11739), (355, 11775), (361, 11802), (366, 11820), (373, 11850), (393, 11946), (401, 11979), (412, 12015), (427, 12066), (433, 12099), (437, 12120), (442, 12144), (447, 12174), (452, 12195), (491, 12339), (509, 12417), (536, 12510), (557, 12588), (586, 12711), (612, 12816), (631, 12864), (676, 13284), (677, 13293), (679, 13323), (708, 13488), (727, 13617), (743, 13710),

Gene: Fionnbharth_22 Start: 13314, Stop: 17489, Start Num: 16

Candidate Starts for Fionnbharth_22:

(9, 13278), (Start: 16 @13314 has 58 MA's), (34, 13512), (85, 13752), (87, 13761), (103, 13854), (122, 13956), (131, 14001), (142, 14061), (158, 14139), (169, 14217), (183, 14304), (184, 14307), (190, 14337), (194, 14370), (200, 14394), (215, 14478), (221, 14508), (225, 14535), (246, 14643), (249, 14664), (251, 14676), (255, 14688), (265, 14742), (302, 14901), (308, 14922), (323, 15030), (342, 15150), (394, 15492), (400, 15510), (410, 15561), (412, 15570), (422, 15615), (426, 15636), (451, 15756), (469, 15855), (470, 15867), (474, 15876), (493, 15948), (502, 15999), (503, 16002), (510, 16029), (539, 16128), (545, 16146), (558, 16221), (597, 16410), (599, 16422), (623, 16497), (634, 16527), (654, 16683), (662, 16803), (670, 16911), (684, 17061), (703, 17190), (705, 17193), (720, 17292), (726, 17319), (743, 17415), (751, 17478),

Gene: FlagStaff_16 Start: 11630, Stop: 15664, Start Num: 16

Candidate Starts for FlagStaff_16:

(Start: 16 @11630 has 58 MA's), (25, 11723), (29, 11753), (43, 11900), (62, 11984), (72, 12032), (97, 12158), (99, 12170), (103, 12191), (131, 12338), (134, 12359), (139, 12380), (142, 12398), (149, 12422), (151, 12434), (162, 12506), (165, 12521), (169, 12554), (192, 12686), (195, 12710), (200, 12731), (204, 12752), (206, 12764), (210, 12791), (212, 12803), (218, 12833), (225, 12881), (251, 13022), (252, 13025), (261, 13064), (265, 13088), (276, 13133), (277, 13136), (302, 13247), (341, 13451), (351, 13547), (354, 13556), (362, 13616), (383, 13730), (386, 13751), (399, 13811), (405, 13844), (412, 13874), (428, 13946), (432, 13976), (435, 13997), (454, 14102), (455, 14105), (466, 14159), (490, 14258), (493, 14276), (507, 14342), (512, 14357), (519, 14381), (532, 14423), (534, 14432), (549, 14492), (566, 14582), (587, 14678), (593, 14735), (599, 14768), (621, 14828), (630, 14843), (659, 15038), (676, 15245), (682, 15314), (684, 15326), (689, 15356), (697, 15416), (728,

15512), (739, 15572), (743, 15590),

Gene: Frosty24_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Frosty24_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: Ganymede_22 Start: 12096, Stop: 15929, Start Num: 15

Candidate Starts for Ganymede_22:

(Start: 15 @12096 has 162 MA's), (Start: 23 @12165 has 1 MA's), (31, 12252), (59, 12429), (67, 12456), (85, 12540), (87, 12549), (99, 12621), (110, 12696), (129, 12780), (131, 12789), (134, 12810), (142, 12849), (158, 12927), (169, 13005), (184, 13095), (196, 13170), (214, 13263), (218, 13284), (220, 13293), (265, 13530), (275, 13569), (282, 13602), (302, 13689), (309, 13713), (323, 13797), (338, 13881), (341, 13893), (345, 13914), (400, 14070), (439, 14151), (450, 14199), (453, 14217), (456, 14238), (463, 14274), (475, 14325), (486, 14382), (502, 14460), (504, 14469), (526, 14547), (539, 14604), (554, 14658), (599, 14898), (623, 14973), (651, 15084), (664, 15303), (666, 15315), (684, 15498), (685, 15507), (696, 15579), (705, 15609), (710, 15630), (727, 15750), (738, 15822), (742, 15840), (743, 15846),

Gene: Gengar_19 Start: 12162, Stop: 16271, Start Num: 14

Candidate Starts for Gengar_19:

(Start: 14 @12162 has 31 MA's), (43, 12420), (62, 12504), (77, 12570), (87, 12618), (97, 12678), (99, 12690), (103, 12711), (110, 12765), (116, 12795), (131, 12858), (134, 12879), (148, 12936), (158, 12996), (169, 13074), (174, 13098), (180, 13140), (186, 13173), (214, 13332), (218, 13353), (237, 13431), (248, 13494), (251, 13509), (252, 13512), (255, 13521), (257, 13527), (259, 13539), (265, 13575), (269, 13593), (295, 13695), (302, 13734), (331, 13887), (339, 13929), (344, 13953), (354, 14043), (356, 14076), (369, 14142), (383, 14217), (384, 14226), (388, 14244), (393, 14271), (409, 14349), (428, 14433), (448, 14556), (460, 14622), (481, 14724), (502, 14817), (510, 14847), (518, 14874), (521, 14880), (534, 14931), (537, 14952), (541, 14967), (542, 14973), (558, 15057), (568, 15087), (570, 15105), (581, 15144), (591, 15204), (598, 15237), (603, 15258), (611, 15282), (618, 15315), (644, 15399), (653, 15471), (676, 15780), (680, 15834), (682, 15849), (684, 15861), (689, 15891), (722, 16077), (727, 16101), (729, 16113), (744, 16200), (747, 16224),

Gene: Geraldini_21 Start: 12092, Stop: 15925, Start Num: 15

Candidate Starts for Geraldini_21:

(Start: 15 @12092 has 162 MA's), (Start: 23 @12161 has 1 MA's), (Start: 24 @12182 has 1 MA's), (31, 12248), (59, 12425), (67, 12452), (84, 12524), (85, 12536), (87, 12545), (99, 12617), (110, 12692), (129, 12776), (131, 12785), (134, 12806), (142, 12845), (158, 12923), (169, 13001), (184, 13091), (196, 13166), (214, 13259), (216, 13268), (218, 13280), (220, 13289), (265, 13526), (275, 13565), (282, 13598), (302, 13685), (309, 13709), (323, 13793), (338, 13877), (341, 13889), (345, 13910), (400, 14066), (439, 14147), (450, 14195), (453, 14213), (456, 14234), (463, 14270), (475, 14321), (486, 14378), (502, 14456), (504, 14465), (526, 14543), (531, 14558), (539, 14600), (554, 14654), (599, 14894), (623, 14969), (651, 15080), (664, 15299), (666, 15311), (684, 15494), (685, 15503), (696, 15575), (705, 15605), (710, 15626), (727, 15746), (738, 15818), (742, 15836), (743, 15842),

Gene: Gideon_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Gideon_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: GoldenAsh_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for GoldenAsh_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: Gomashi_16 Start: 11465, Stop: 15478, Start Num: 15

Candidate Starts for Gomashi_16:

(Start: 15 @11465 has 162 MA's), (34, 11666), (57, 11780), (67, 11822), (73, 11852), (99, 11987), (100, 11999), (103, 12008), (139, 12197), (142, 12215), (144, 12218), (149, 12239), (151, 12251), (162, 12323), (169, 12371), (192, 12503), (195, 12527), (210, 12608), (235, 12731), (248, 12815), (258, 12851), (265, 12896), (266, 12902), (293, 13010), (298, 13034), (302, 13055), (344, 13274), (362, 13424), (378, 13511), (399, 13619), (428, 13754), (445, 13865), (450, 13883), (455, 13913), (500, 14135), (507, 14159), (512, 14174), (517, 14195), (526, 14222), (534, 14249), (549, 14309), (566, 14399), (570, 14432), (587, 14495), (593, 14552), (599, 14585), (602, 14594), (678, 15098), (679, 15125), (682, 15155), (684, 15167), (685, 15176), (707, 15245), (728, 15326), (739, 15386), (743, 15404), (745, 15413),

Gene: Grizzly_16 Start: 11464, Stop: 15480, Start Num: 15

Candidate Starts for Grizzly_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (65, 11812), (67, 11821), (73, 11851), (99, 11986), (103, 12007), (131, 12154), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (255, 12841), (258, 12850), (266, 12901), (272, 12925), (278, 12952), (302, 13054), (342, 13261), (344, 13273), (360, 13420), (362, 13423), (399, 13618), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (519, 14197), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (572, 14446), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15100), (679, 15127), (682, 15157), (684, 15169), (685, 15178), (707, 15247), (728, 15328), (739, 15388), (743, 15406), (745, 15415),

Gene: Guanica15_21 Start: 11016, Stop: 15143, Start Num: 16

Candidate Starts for Guanica15_21:

(9, 10968), (Start: 16 @11016 has 58 MA's), (26, 11109), (42, 11241), (46, 11265), (53, 11295), (57, 11316), (60, 11328), (76, 11388), (91, 11475), (98, 11508), (101, 11526), (102, 11529), (114, 11601), (146, 11745), (152, 11787), (155, 11802), (161, 11838), (170, 11910), (190, 12012), (222, 12195), (228, 12222), (233, 12240), (234, 12246), (239, 12288), (254, 12360), (256, 12366), (259, 12381),

(263, 12402), (266, 12420), (270, 12435), (281, 12483), (292, 12516), (295, 12531), (302, 12570), (308, 12591), (315, 12621), (343, 12789), (346, 12840), (373, 13005), (377, 13029), (388, 13086), (397, 13137), (404, 13170), (406, 13179), (423, 13251), (435, 13326), (438, 13344), (445, 13386), (450, 13404), (454, 13431), (456, 13443), (480, 13572), (487, 13590), (502, 13671), (503, 13674), (526, 13758), (538, 13812), (539, 13815), (558, 13908), (574, 13974), (599, 14109), (639, 14235), (676, 14631), (677, 14640), (684, 14712), (696, 14796), (727, 14964), (738, 15036), (743, 15060), (748, 15099),

Gene: Guillsminger_19 Start: 12137, Stop: 16246, Start Num: 14

Candidate Starts for Guillsminger_19:

(Start: 14 @12137 has 31 MA's), (43, 12395), (62, 12479), (77, 12545), (87, 12593), (97, 12653), (99, 12665), (103, 12686), (110, 12740), (116, 12770), (131, 12833), (134, 12854), (148, 12911), (158, 12971), (169, 13049), (174, 13073), (180, 13115), (186, 13148), (214, 13307), (218, 13328), (237, 13406), (248, 13469), (251, 13484), (252, 13487), (255, 13496), (257, 13502), (259, 13514), (265, 13550), (269, 13568), (295, 13670), (302, 13709), (331, 13862), (339, 13904), (344, 13928), (354, 14018), (356, 14051), (369, 14117), (383, 14192), (384, 14201), (388, 14219), (393, 14246), (409, 14324), (428, 14408), (448, 14531), (460, 14597), (481, 14699), (502, 14792), (510, 14822), (518, 14849), (521, 14855), (534, 14906), (537, 14927), (541, 14942), (542, 14948), (558, 15032), (568, 15062), (570, 15080), (581, 15119), (591, 15179), (598, 15212), (603, 15233), (611, 15257), (618, 15290), (644, 15374), (653, 15446), (676, 15755), (680, 15809), (682, 15824), (684, 15836), (689, 15866), (722, 16052), (727, 16076), (729, 16088), (744, 16175), (747, 16199),

Gene: Halo_16 Start: 11459, Stop: 15472, Start Num: 15

Candidate Starts for Halo_16:

(Start: 15 @11459 has 162 MA's), (34, 11660), (57, 11774), (67, 11816), (73, 11846), (99, 11981), (100, 11993), (103, 12002), (139, 12191), (142, 12209), (144, 12212), (149, 12233), (151, 12245), (162, 12317), (169, 12365), (192, 12497), (195, 12521), (210, 12602), (235, 12725), (248, 12809), (258, 12845), (265, 12890), (266, 12896), (293, 13004), (298, 13028), (302, 13049), (344, 13268), (362, 13418), (378, 13505), (399, 13613), (428, 13748), (445, 13859), (450, 13877), (455, 13907), (500, 14129), (507, 14153), (512, 14168), (517, 14189), (526, 14216), (534, 14243), (549, 14303), (566, 14393), (570, 14426), (587, 14489), (593, 14546), (599, 14579), (602, 14588), (678, 15092), (679, 15119), (682, 15149), (684, 15161), (685, 15170), (707, 15239), (728, 15320), (739, 15380), (743, 15398), (745, 15407),

Gene: Hammy_20 Start: 12190, Stop: 16329, Start Num: 15

Candidate Starts for Hammy_20:

(9, 12145), (Start: 15 @12190 has 162 MA's), (Start: 23 @12259 has 1 MA's), (31, 12346), (41, 12421), (59, 12523), (62, 12529), (67, 12550), (74, 12583), (77, 12595), (85, 12634), (87, 12643), (97, 12703), (99, 12715), (103, 12736), (110, 12790), (116, 12820), (131, 12883), (134, 12904), (142, 12943), (158, 13021), (169, 13099), (174, 13123), (204, 13297), (210, 13336), (211, 13345), (212, 13348), (218, 13378), (241, 13501), (244, 13516), (250, 13555), (261, 13600), (265, 13624), (291, 13726), (293, 13738), (295, 13744), (302, 13783), (322, 13909), (325, 13924), (332, 13960), (334, 13972), (343, 14017), (354, 14113), (392, 14332), (400, 14371), (403, 14392), (423, 14479), (428, 14503), (431, 14530), (432, 14533), (437, 14563), (445, 14614), (453, 14650), (475, 14758), (502, 14893), (503, 14896), (523, 14962), (525, 14968), (534, 15007), (550, 15079), (551, 15085), (554, 15106), (569, 15190), (575, 15220), (579, 15241), (582, 15253), (594, 15334), (600, 15367), (604, 15376), (607, 15382), (618, 15424), (626, 15442), (636, 15475), (638, 15481), (652, 15526), (664, 15736), (676, 15835), (677, 15844), (678, 15847), (684, 15916), (710, 16051), (718, 16120), (727, 16168), (743, 16264), (748, 16303),

Gene: HedwigODU_21 Start: 12079, Stop: 15918, Start Num: 15

Candidate Starts for HedwigODU_21:

(Start: 15 @12079 has 162 MA's), (Start: 23 @12148 has 1 MA's), (31, 12235), (59, 12412), (67, 12439), (84, 12511), (85, 12523), (87, 12532), (99, 12604), (110, 12679), (129, 12763), (131, 12772), (134, 12793), (142, 12832), (158, 12910), (169, 12988), (184, 13078), (196, 13153), (214, 13246), (216, 13255), (218, 13267), (220, 13276), (271, 13537), (275, 13552), (282, 13585), (302, 13672), (309, 13696), (323, 13780), (338, 13864), (341, 13876), (345, 13897), (400, 14053), (439, 14134), (450, 14182), (453, 14200), (456, 14221), (463, 14257), (475, 14308), (486, 14365), (502, 14443), (504, 14452), (526, 14530), (539, 14587), (554, 14641), (599, 14881), (623, 14956), (651, 15067), (664, 15286), (666, 15298), (684, 15487), (685, 15496), (696, 15568), (705, 15598), (710, 15619), (727, 15739), (738, 15811), (742, 15829), (743, 15835),

Gene: Heftyboy_19 Start: 12264, Stop: 16394, Start Num: 14

Candidate Starts for Heftyboy_19:

(Start: 14 @12264 has 31 MA's), (Start: 24 @12357 has 1 MA's), (32, 12435), (33, 12459), (43, 12519), (62, 12603), (65, 12615), (87, 12717), (97, 12777), (99, 12789), (103, 12810), (110, 12864), (122, 12912), (131, 12957), (134, 12978), (158, 13095), (169, 13173), (174, 13197), (184, 13263), (196, 13338), (214, 13431), (220, 13461), (252, 13635), (255, 13644), (261, 13674), (265, 13698), (270, 13719), (284, 13779), (302, 13857), (305, 13866), (320, 13944), (331, 14010), (339, 14052), (341, 14061), (348, 14145), (354, 14166), (356, 14199), (383, 14340), (384, 14349), (388, 14367), (393, 14394), (409, 14472), (428, 14556), (448, 14679), (460, 14745), (502, 14940), (510, 14970), (518, 14997), (521, 15003), (527, 15030), (537, 15075), (541, 15090), (542, 15096), (558, 15180), (570, 15228), (581, 15267), (591, 15327), (598, 15360), (603, 15381), (611, 15405), (618, 15438), (644, 15522), (653, 15594), (676, 15903), (680, 15957), (682, 15972), (684, 15984), (689, 16014), (722, 16200), (727, 16224), (729, 16236), (744, 16323), (747, 16347),

Gene: Homura_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for Homura_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (265, 13550), (275, 13589), (282, 13622), (302, 13709), (309, 13733), (323, 13817), (338, 13901), (341, 13913), (345, 13934), (400, 14090), (439, 14171), (450, 14219), (453, 14237), (456, 14258), (463, 14294), (475, 14345), (486, 14402), (502, 14480), (504, 14489), (526, 14567), (531, 14582), (539, 14624), (554, 14678), (599, 14918), (623, 14993), (649, 15089), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (710, 15650), (727, 15770), (738, 15842), (742, 15860), (743, 15866),

Gene: Hope_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Hope_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: Hotshotbaby7_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Hotshotbaby7_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250),

(162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: Hurricane_20 Start: 12208, Stop: 16356, Start Num: 15

Candidate Starts for Hurricane_20:

(Start: 15 @12208 has 162 MA's), (Start: 23 @12277 has 1 MA's), (Start: 24 @12298 has 1 MA's), (26, 12304), (31, 12364), (52, 12502), (62, 12547), (67, 12568), (70, 12589), (84, 12640), (97, 12721), (99, 12733), (103, 12754), (110, 12808), (119, 12850), (131, 12901), (134, 12922), (137, 12940), (144, 12964), (154, 13015), (158, 13039), (165, 13084), (169, 13117), (174, 13141), (204, 13315), (214, 13375), (218, 13396), (220, 13405), (250, 13573), (257, 13594), (261, 13618), (265, 13642), (270, 13663), (275, 13681), (279, 13702), (282, 13714), (293, 13756), (294, 13759), (302, 13801), (306, 13816), (318, 13879), (334, 13990), (340, 14020), (347, 14098), (368, 14218), (373, 14251), (390, 14341), (393, 14359), (400, 14389), (404, 14416), (445, 14632), (453, 14668), (468, 14743), (475, 14776), (476, 14788), (487, 14836), (502, 14917), (503, 14920), (539, 15037), (558, 15130), (578, 15208), (595, 15307), (599, 15331), (623, 15406), (676, 15865), (677, 15874), (678, 15877), (684, 15946), (685, 15955), (710, 16087), (719, 16147), (721, 16165), (729, 16201), (731, 16210), (742, 16276), (743, 16282), (746, 16297), (747, 16309),

Gene: Hyperbowlee_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for Hyperbowlee_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (265, 13550), (275, 13589), (282, 13622), (302, 13709), (309, 13733), (323, 13817), (338, 13901), (341, 13913), (345, 13934), (400, 14090), (439, 14171), (450, 14219), (453, 14237), (456, 14258), (463, 14294), (475, 14345), (486, 14402), (502, 14480), (504, 14489), (526, 14567), (531, 14582), (539, 14624), (554, 14678), (599, 14918), (623, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (710, 15650), (727, 15770), (738, 15842), (742, 15860), (743, 15866),

Gene: Illumine_21 Start: 12077, Stop: 15931, Start Num: 15

Candidate Starts for Illumine_21:

(Start: 15 @12077 has 162 MA's), (Start: 23 @12146 has 1 MA's), (31, 12233), (59, 12413), (67, 12440), (85, 12524), (87, 12533), (97, 12593), (99, 12605), (110, 12680), (119, 12722), (129, 12764), (131, 12773), (134, 12794), (142, 12833), (158, 12911), (164, 12953), (169, 12989), (196, 13154), (214, 13247), (218, 13268), (220, 13277), (271, 13559), (275, 13574), (282, 13607), (302, 13694), (323, 13802), (338, 13886), (341, 13898), (345, 13919), (400, 14075), (439, 14156), (450, 14204), (453, 14222), (456, 14243), (463, 14279), (475, 14330), (486, 14387), (502, 14465), (504, 14474), (526, 14552), (531, 14567), (539, 14609), (554, 14663), (578, 14780), (599, 14903), (623, 14978), (654, 15131), (664, 15308), (676, 15422), (684, 15503), (685, 15512), (696, 15584), (705, 15614), (710, 15635), (727, 15752), (738, 15824), (743, 15848),

Gene: Inky_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for Inky_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (265, 13550), (275, 13589),

(282, 13622), (302, 13709), (309, 13733), (323, 13817), (338, 13901), (341, 13913), (345, 13934), (400, 14090), (439, 14171), (450, 14219), (453, 14237), (456, 14258), (463, 14294), (475, 14345), (486, 14402), (502, 14480), (504, 14489), (526, 14567), (531, 14582), (539, 14624), (554, 14678), (599, 14918), (623, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (710, 15650), (727, 15770), (738, 15842), (742, 15860), (743, 15866),

Gene: InvictusManeo_19 Start: 12240, Stop: 16346, Start Num: 14

Candidate Starts for InvictusManeo_19:

(Start: 14 @12240 has 31 MA's), (Start: 24 @12333 has 1 MA's), (32, 12411), (33, 12435), (43, 12495), (62, 12579), (65, 12591), (87, 12693), (97, 12753), (99, 12765), (103, 12786), (110, 12840), (122, 12888), (131, 12933), (134, 12954), (158, 13071), (169, 13149), (174, 13173), (184, 13239), (196, 13314), (214, 13407), (220, 13437), (252, 13611), (255, 13620), (261, 13650), (265, 13674), (270, 13695), (284, 13755), (302, 13833), (305, 13842), (320, 13920), (331, 13986), (339, 14028), (341, 14037), (348, 14121), (354, 14142), (356, 14175), (369, 14241), (373, 14262), (383, 14316), (384, 14325), (388, 14343), (392, 14361), (393, 14370), (400, 14400), (406, 14436), (418, 14490), (426, 14526), (428, 14532), (429, 14550), (448, 14655), (460, 14721), (502, 14916), (510, 14946), (521, 14979), (534, 15030), (537, 15051), (541, 15066), (542, 15072), (558, 15156), (570, 15204), (581, 15243), (591, 15303), (598, 15336), (603, 15357), (611, 15381), (618, 15411), (644, 15477), (653, 15549), (676, 15864), (677, 15873), (678, 15876), (680, 15918), (684, 15945), (689, 15975), (696, 16026), (700, 16044), (717, 16110), (722, 16158), (727, 16182), (729, 16194), (744, 16275), (747, 16299), (753, 16338),

Gene: JAWS_21 Start: 12070, Stop: 15903, Start Num: 15

Candidate Starts for JAWS_21:

(Start: 15 @12070 has 162 MA's), (Start: 23 @12139 has 1 MA's), (31, 12226), (41, 12301), (59, 12403), (67, 12430), (84, 12502), (85, 12514), (87, 12523), (99, 12595), (110, 12670), (129, 12754), (131, 12763), (134, 12784), (142, 12823), (151, 12859), (158, 12901), (169, 12979), (184, 13069), (196, 13144), (214, 13237), (216, 13246), (218, 13258), (220, 13267), (265, 13504), (275, 13543), (282, 13576), (302, 13663), (309, 13687), (323, 13771), (338, 13855), (341, 13867), (345, 13888), (400, 14044), (439, 14125), (450, 14173), (453, 14191), (456, 14212), (463, 14248), (475, 14299), (486, 14356), (502, 14434), (504, 14443), (526, 14521), (531, 14536), (539, 14578), (554, 14632), (599, 14872), (623, 14947), (651, 15058), (664, 15277), (666, 15289), (684, 15472), (685, 15481), (696, 15553), (705, 15583), (710, 15604), (727, 15724), (738, 15796), (742, 15814), (743, 15820),

Gene: JF1_22 Start: 13313, Stop: 17488, Start Num: 16

Candidate Starts for JF1_22:

(9, 13277), (Start: 16 @13313 has 58 MA's), (34, 13511), (85, 13751), (87, 13760), (103, 13853), (122, 13955), (131, 14000), (142, 14060), (158, 14138), (169, 14216), (183, 14303), (184, 14306), (190, 14336), (194, 14369), (200, 14393), (215, 14477), (221, 14507), (225, 14534), (246, 14642), (249, 14663), (251, 14675), (255, 14687), (265, 14741), (302, 14900), (308, 14921), (323, 15029), (342, 15149), (394, 15491), (400, 15509), (410, 15560), (412, 15569), (422, 15614), (426, 15635), (451, 15755), (469, 15854), (470, 15866), (474, 15875), (493, 15947), (502, 15998), (503, 16001), (510, 16028), (539, 16127), (545, 16145), (558, 16220), (597, 16409), (599, 16421), (623, 16496), (634, 16526), (654, 16682), (662, 16802), (670, 16910), (684, 17060), (700, 17180), (703, 17189), (705, 17192), (720, 17291), (726, 17318), (743, 17414), (751, 17477),

Gene: Jane_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Jane_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912),

(500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: Jarvi_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for Jarvi_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (265, 13550), (275, 13589), (282, 13622), (302, 13709), (309, 13733), (323, 13817), (338, 13901), (341, 13913), (345, 13934), (400, 14090), (439, 14171), (450, 14219), (453, 14237), (456, 14258), (463, 14294), (475, 14345), (486, 14402), (502, 14480), (504, 14489), (526, 14567), (531, 14582), (539, 14624), (554, 14678), (599, 14918), (623, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (710, 15650), (727, 15770), (738, 15842), (742, 15860), (743, 15866),

Gene: Jayhawk_21 Start: 12080, Stop: 15916, Start Num: 15

Candidate Starts for Jayhawk_21:

(Start: 15 @12080 has 162 MA's), (Start: 23 @12149 has 1 MA's), (31, 12236), (59, 12413), (67, 12440), (84, 12512), (85, 12524), (87, 12533), (99, 12605), (110, 12680), (129, 12764), (131, 12773), (134, 12794), (142, 12833), (158, 12911), (169, 12989), (184, 13079), (196, 13154), (214, 13247), (216, 13256), (218, 13268), (220, 13277), (271, 13538), (275, 13553), (282, 13586), (302, 13673), (309, 13697), (323, 13781), (338, 13865), (341, 13877), (345, 13898), (400, 14054), (439, 14135), (450, 14183), (453, 14201), (456, 14222), (463, 14258), (475, 14309), (486, 14366), (502, 14444), (504, 14453), (526, 14531), (539, 14588), (554, 14642), (599, 14882), (623, 14957), (651, 15068), (664, 15287), (666, 15299), (684, 15485), (685, 15494), (696, 15566), (705, 15596), (710, 15617), (727, 15737), (738, 15809), (742, 15827), (743, 15833),

Gene: Jeckyll_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for Jeckyll_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (265, 13550), (275, 13589), (282, 13622), (302, 13709), (309, 13733), (323, 13817), (338, 13901), (341, 13913), (345, 13934), (400, 14090), (439, 14171), (450, 14219), (453, 14237), (456, 14258), (463, 14294), (475, 14345), (486, 14402), (502, 14480), (504, 14489), (526, 14567), (531, 14582), (539, 14624), (554, 14678), (599, 14918), (623, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (710, 15650), (727, 15770), (738, 15842), (742, 15860), (743, 15866),

Gene: Jolene_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Jolene_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: Jolie2_16 Start: 10765, Stop: 14787, Start Num: 16

Candidate Starts for Jolie2_16:

(Start: 16 @10765 has 58 MA's), (Start: 23 @10834 has 1 MA's), (26, 10861), (39, 10975), (65, 11098), (70, 11122), (71, 11125), (80, 11158), (81, 11161), (88, 11203), (89, 11212), (111, 11344), (115, 11368), (120, 11386), (130, 11431), (135, 11455), (136, 11467), (146, 11509), (152, 11551), (160, 11596), (161, 11602), (169, 11665), (170, 11674), (173, 11686), (176, 11695), (180, 11728), (190, 11776), (222, 11953), (230, 11986), (231, 11989), (234, 12004), (256, 12124), (259, 12139), (262, 12157), (263, 12160), (270, 12193), (277, 12220), (289, 12265), (295, 12289), (298, 12307), (302, 12328), (321, 12424), (333, 12496), (363, 12703), (371, 12754), (388, 12844), (390, 12853), (393, 12871), (397, 12895), (400, 12901), (412, 12961), (422, 13006), (423, 13009), (424, 13015), (437, 13093), (442, 13126), (456, 13201), (500, 13414), (505, 13435), (506, 13438), (508, 13453), (520, 13486), (544, 13588), (562, 13678), (583, 13771), (588, 13825), (589, 13828), (597, 13861), (601, 13876), (615, 13915), (627, 13942), (654, 14080), (662, 14200), (668, 14287), (682, 14443), (684, 14455), (693, 14539), (703, 14578), (725, 14713),

Gene: Jonghyun_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Jonghyun_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: JorRay_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for JorRay_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: Joy99_21 Start: 12045, Stop: 15878, Start Num: 15

Candidate Starts for Joy99_21:

(Start: 15 @12045 has 162 MA's), (Start: 23 @12114 has 1 MA's), (Start: 24 @12135 has 1 MA's), (31, 12201), (59, 12378), (67, 12405), (84, 12477), (85, 12489), (87, 12498), (99, 12570), (110, 12645), (129, 12729), (131, 12738), (134, 12759), (142, 12798), (158, 12876), (169, 12954), (184, 13044), (196, 13119), (214, 13212), (216, 13221), (218, 13233), (220, 13242), (265, 13479), (275, 13518), (282, 13551), (302, 13638), (309, 13662), (323, 13746), (338, 13830), (341, 13842), (345, 13863), (400, 14019), (439, 14100), (450, 14148), (453, 14166), (456, 14187), (463, 14223), (475, 14274), (486, 14331), (502, 14409), (504, 14418), (526, 14496), (531, 14511), (539, 14553), (554, 14607), (599, 14847), (623, 14922), (651, 15033), (664, 15252), (666, 15264), (684, 15447), (685, 15456), (696, 15528), (705, 15558), (710, 15579), (727, 15699), (738, 15771), (742, 15789), (743, 15795),

Gene: Juliette_22 Start: 13193, Stop: 17389, Start Num: 16

Candidate Starts for Juliette_22:

(Start: 16 @13193 has 58 MA's), (34, 13391), (80, 13604), (85, 13631), (87, 13640), (99, 13712), (103, 13733), (129, 13871), (131, 13880), (134, 13901), (142, 13940), (156, 14009), (158, 14018), (169, 14096), (171, 14108), (184, 14186), (190, 14216), (194, 14249), (195, 14252), (200, 14273), (225, 14414), (227, 14423), (251, 14555), (255, 14567), (265, 14621), (275, 14660), (282, 14693), (302, 14780), (308, 14801), (332, 14978), (342, 15029), (360, 15188), (400, 15389), (410, 15440), (412, 15449), (422, 15494), (426, 15515), (430, 15521), (451, 15635), (469, 15734), (470, 15746), (474, 15755), (493, 15827), (498, 15860), (502, 15878), (503, 15881), (510, 15908), (539, 16007), (545, 16025), (558, 16100), (597, 16289), (599, 16301), (623, 16376), (641, 16445), (654, 16577), (660, 16691), (684, 16958), (687, 16976), (703, 17087), (705, 17090), (720, 17189), (726, 17216), (727, 17219), (743, 17315), (751, 17378),

Gene: Kareem_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Kareem_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: Kasen3_16 Start: 11465, Stop: 15478, Start Num: 15

Candidate Starts for Kasen3_16:

(Start: 15 @11465 has 162 MA's), (34, 11666), (57, 11780), (67, 11822), (73, 11852), (99, 11987), (100, 11999), (103, 12008), (139, 12197), (142, 12215), (144, 12218), (149, 12239), (151, 12251), (162, 12323), (169, 12371), (192, 12503), (195, 12527), (210, 12608), (235, 12731), (248, 12815), (258, 12851), (265, 12896), (266, 12902), (293, 13010), (298, 13034), (302, 13055), (344, 13274), (362, 13424), (378, 13511), (399, 13619), (428, 13754), (445, 13865), (450, 13883), (455, 13913), (500, 14135), (507, 14159), (512, 14174), (517, 14195), (526, 14222), (534, 14249), (549, 14309), (566, 14399), (570, 14432), (587, 14495), (593, 14552), (599, 14585), (602, 14594), (678, 15098), (679, 15125), (682, 15155), (684, 15167), (685, 15176), (707, 15245), (728, 15326), (739, 15386), (743, 15404), (745, 15413),

Gene: Keshu_20 Start: 12188, Stop: 16348, Start Num: 15

Candidate Starts for Keshu_20:

(Start: 15 @12188 has 162 MA's), (Start: 23 @12257 has 1 MA's), (Start: 24 @12278 has 1 MA's), (26, 12284), (31, 12344), (52, 12482), (57, 12506), (62, 12527), (67, 12548), (70, 12569), (97, 12701), (99, 12713), (103, 12734), (110, 12788), (116, 12818), (123, 12839), (129, 12872), (131, 12881), (134, 12902), (142, 12941), (158, 13019), (164, 13061), (169, 13097), (174, 13121), (204, 13295), (210, 13334), (214, 13355), (218, 13376), (220, 13385), (257, 13574), (261, 13598), (265, 13622), (270, 13643), (275, 13661), (282, 13694), (284, 13703), (293, 13736), (294, 13739), (295, 13742), (302, 13781), (305, 13790), (318, 13859), (334, 13970), (340, 14000), (347, 14078), (368, 14198), (373, 14231), (390, 14321), (393, 14339), (400, 14369), (404, 14396), (428, 14501), (432, 14531), (453, 14648), (463, 14705), (468, 14723), (472, 14744), (475, 14756), (487, 14816), (502, 14897), (503, 14900), (529, 14990), (539, 15020), (558, 15113), (578, 15191), (599, 15314), (623, 15389), (676, 15854), (678, 15866), (684, 15935), (685, 15944), (689, 15965), (719, 16139), (721, 16157), (729, 16193), (731, 16202), (742, 16268), (743, 16274), (746, 16289), (747, 16301),

Gene: KiSi_20 Start: 11011, Stop: 15084, Start Num: 16

Candidate Starts for KiSi_20:

(Start: 16 @11011 has 58 MA's), (26, 11104), (47, 11263), (48, 11272), (50, 11281), (74, 11374), (88, 11443), (89, 11452), (90, 11464), (91, 11470), (98, 11503), (105, 11539), (113, 11596), (115, 11608), (128, 11662), (133, 11692), (152, 11779), (155, 11794), (161, 11830), (190, 12004), (222, 12187), (224, 12196), (234, 12238), (239, 12280), (250, 12340), (254, 12352), (256, 12358), (259, 12373), (262, 12391), (263, 12394), (270, 12427), (300, 12550), (302, 12562), (304, 12568), (308, 12583), (310, 12589), (339, 12673), (347, 12754), (373, 12907), (391, 13003), (393, 13015), (400, 13045), (410, 13096), (414, 13117), (421, 13147), (423, 13153), (428, 13177), (437, 13237), (445, 13288), (454, 13333), (468, 13399), (475, 13432), (486, 13489), (502, 13567), (503, 13570), (526, 13654), (534, 13681), (539, 13711), (554, 13765), (558, 13804), (599, 14005), (623, 14080), (662, 14365), (664, 14422), (684, 14623), (699, 14737), (727, 14914), (738, 14998), (743, 15019),

Gene: Kratio_18 Start: 11868, Stop: 15977, Start Num: 14

Candidate Starts for Kratio_18:

(Start: 14 @11868 has 31 MA's), (Start: 24 @11961 has 1 MA's), (32, 12039), (33, 12063), (43, 12123), (62, 12207), (77, 12273), (87, 12321), (97, 12381), (99, 12393), (103, 12414), (110, 12468), (122, 12516), (131, 12561), (134, 12582), (158, 12699), (169, 12777), (174, 12801), (184, 12867), (196, 12942), (214, 13035), (220, 13065), (252, 13239), (255, 13248), (261, 13278), (265, 13302), (270, 13323), (284, 13383), (302, 13461), (305, 13470), (320, 13548), (331, 13614), (339, 13656), (348, 13749), (354, 13770), (356, 13803), (369, 13869), (373, 13890), (383, 13944), (384, 13953), (388, 13971), (392, 13989), (393, 13998), (400, 14028), (406, 14064), (426, 14154), (428, 14160), (429, 14178), (448, 14283), (460, 14349), (502, 14544), (510, 14574), (521, 14607), (534, 14658), (537, 14679), (541, 14694), (542, 14700), (558, 14784), (570, 14832), (581, 14871), (591, 14931), (598, 14964), (603, 14985), (611, 15009), (644, 15105), (653, 15177), (676, 15492), (677, 15501), (678, 15504), (680, 15546), (682, 15561), (684, 15573), (689, 15603), (696, 15654), (700, 15672), (722, 15789), (727, 15813), (729, 15825), (744, 15906), (747, 15930), (753, 15969),

Gene: Kraw_22 Start: 13237, Stop: 17412, Start Num: 16

Candidate Starts for Kraw_22:

(9, 13201), (Start: 16 @13237 has 58 MA's), (34, 13435), (85, 13675), (87, 13684), (103, 13777), (122, 13879), (131, 13924), (142, 13984), (158, 14062), (169, 14140), (183, 14227), (184, 14230), (190, 14260), (194, 14293), (200, 14317), (215, 14401), (221, 14431), (225, 14458), (246, 14566), (249, 14587), (251, 14599), (255, 14611), (265, 14665), (302, 14824), (308, 14845), (323, 14953), (342, 15073), (394, 15415), (400, 15433), (410, 15484), (412, 15493), (422, 15538), (426, 15559), (451, 15679), (469, 15778), (470, 15790), (474, 15799), (493, 15871), (502, 15922), (503, 15925), (510, 15952), (539, 16051), (545, 16069), (558, 16144), (597, 16333), (599, 16345), (623, 16420), (634, 16450), (654, 16606), (662, 16726), (670, 16834), (684, 16984), (703, 17113), (705, 17116), (720, 17215), (726, 17242), (743, 17338), (751, 17401),

Gene: Krueger_20 Start: 11051, Stop: 15055, Start Num: 16

Candidate Starts for Krueger_20:

(Start: 16 @11051 has 58 MA's), (26, 11144), (37, 11249), (47, 11303), (50, 11321), (55, 11339), (63, 11369), (69, 11396), (70, 11402), (83, 11447), (98, 11543), (101, 11561), (102, 11564), (125, 11678), (128, 11693), (152, 11810), (155, 11825), (166, 11906), (178, 11966), (179, 11975), (190, 12035), (222, 12218), (223, 12224), (236, 12281), (250, 12371), (254, 12383), (256, 12389), (259, 12404), (263, 12425), (266, 12443), (285, 12518), (294, 12551), (300, 12581), (302, 12593), (308, 12614), (316, 12653), (337, 12698), (341, 12713), (360, 12875), (373, 12938), (378, 12965), (392, 13037), (400, 13076), (410, 13127), (414, 13148), (421, 13178), (423, 13184), (428, 13208), (435, 13259), (444, 13313), (453, 13355), (456, 13376), (463, 13412), (475, 13463), (502, 13604), (503, 13607), (526, 13691), (534, 13718), (554, 13802), (599, 14042), (623, 14117), (676, 14555), (677, 14564), (684, 14636), (685, 14645), (696, 14720), (705, 14750), (710, 14771), (727, 14888), (738, 14963), (746, 15002), (747, 15014),

Gene: Larva_19 Start: 11980, Stop: 16092, Start Num: 14

Candidate Starts for Larva_19:

(Start: 14 @11980 has 31 MA's), (Start: 24 @12073 has 1 MA's), (32, 12151), (33, 12175), (43, 12235), (62, 12319), (87, 12433), (97, 12493), (99, 12505), (103, 12526), (110, 12580), (122, 12628), (131, 12673), (134, 12694), (158, 12811), (169, 12889), (174, 12913), (184, 12979), (196, 13054), (214, 13147), (220, 13177), (252, 13351), (261, 13390), (265, 13414), (270, 13435), (284, 13495), (302, 13573), (320, 13660), (331, 13726), (339, 13768), (341, 13777), (348, 13861), (354, 13882), (356, 13915), (369, 13981), (373, 14002), (383, 14056), (384, 14065), (388, 14083), (393, 14110), (400, 14140), (406, 14176), (426, 14266), (428, 14272), (429, 14290), (448, 14395), (460, 14461), (502, 14656), (510, 14686), (521, 14719), (534, 14770), (537, 14791), (541, 14806), (542, 14812), (558, 14896), (570, 14944), (581, 14983), (591, 15043), (598, 15076), (603, 15097), (611, 15121), (618, 15151), (644, 15217), (653, 15289), (676, 15604), (677, 15613), (678, 15616), (679, 15643), (680, 15658), (682, 15673), (684, 15685), (689, 15715), (696, 15769), (700, 15787), (717, 15856), (722, 15904), (727, 15928), (729, 15940), (731, 15949), (744, 16021), (747, 16045), (753, 16084),

Gene: LastHope_21 Start: 11090, Stop: 15217, Start Num: 16

Candidate Starts for LastHope_21:

(9, 11042), (Start: 16 @11090 has 58 MA's), (26, 11183), (42, 11315), (46, 11339), (53, 11369), (57, 11390), (60, 11402), (63, 11408), (69, 11435), (76, 11462), (91, 11549), (98, 11582), (101, 11600), (102, 11603), (108, 11645), (118, 11693), (146, 11819), (152, 11861), (155, 11876), (161, 11912), (170, 11984), (190, 12086), (214, 12224), (222, 12269), (232, 12311), (233, 12314), (234, 12320), (236, 12332), (239, 12362), (250, 12422), (256, 12440), (259, 12455), (262, 12473), (263, 12476), (270, 12509), (292, 12590), (295, 12605), (302, 12644), (308, 12665), (338, 12842), (341, 12854), (346, 12914), (353, 12956), (373, 13079), (377, 13103), (388, 13160), (391, 13175), (392, 13178), (404, 13244), (406, 13253), (412, 13277), (423, 13325), (435, 13400), (438, 13418), (450, 13478), (454, 13505), (456, 13517), (463, 13553), (468, 13571), (477, 13616), (480, 13646), (487, 13664), (502, 13745), (503, 13748), (526, 13832), (531, 13847), (538, 13886), (539, 13889), (558, 13982), (574, 14048), (599, 14183), (662, 14534), (676, 14705), (684, 14786), (689, 14816), (696, 14870), (727, 15038), (738, 15110), (742, 15128), (743, 15134),

Gene: LaterM_21 Start: 12043, Stop: 15876, Start Num: 15

Candidate Starts for LaterM_21:

(Start: 15 @12043 has 162 MA's), (Start: 23 @12112 has 1 MA's), (31, 12199), (59, 12379), (67, 12406), (85, 12490), (87, 12499), (97, 12559), (99, 12571), (110, 12646), (119, 12688), (129, 12730), (131, 12739), (134, 12760), (142, 12799), (158, 12877), (169, 12955), (196, 13120), (214, 13213), (218, 13234), (220, 13243), (265, 13480), (271, 13504), (275, 13519), (282, 13552), (302, 13639), (323, 13747), (338, 13831), (341, 13843), (345, 13864), (353, 13945), (400, 14020), (439, 14101), (441, 14110), (450, 14149), (453, 14167), (456, 14188), (463, 14224), (475, 14275), (486, 14332), (502, 14410), (504, 14419), (526, 14497), (531, 14512), (539, 14554), (554, 14608), (599, 14848), (623, 14923), (651, 15034), (664, 15253), (676, 15367), (684, 15448), (685, 15457), (696, 15529), (705, 15559), (710, 15580), (727, 15697), (738, 15769), (743, 15793),

Gene: LeMond_20 Start: 11082, Stop: 15155, Start Num: 16

Candidate Starts for LeMond_20:

(Start: 16 @11082 has 58 MA's), (26, 11175), (42, 11307), (74, 11445), (89, 11523), (90, 11535), (91, 11541), (98, 11574), (105, 11610), (113, 11667), (115, 11679), (128, 11733), (133, 11763), (152, 11850), (155, 11865), (161, 11901), (176, 11994), (190, 12075), (222, 12258), (224, 12267), (234, 12309), (239, 12351), (250, 12411), (254, 12423), (256, 12429), (259, 12444), (263, 12465), (270, 12498), (300, 12621), (302, 12633), (304, 12639), (308, 12654), (310, 12660), (339, 12744), (347, 12825), (373, 12978), (391, 13074), (400, 13116), (410, 13167), (414, 13188), (421, 13218), (423, 13224), (428, 13248), (437, 13308), (445, 13359), (454, 13404), (456, 13416), (468, 13470), (475, 13503), (486, 13560), (502, 13638), (503, 13641), (526, 13725), (539, 13782), (554, 13836), (558, 13875), (585, 13980), (599, 14076), (623, 14151), (651, 14274), (664, 14493), (684, 14694), (699, 14808), (727, 14985), (738, 15069), (743, 15090),

Gene: Lemuria_16 Start: 10811, Stop: 14821, Start Num: 16

Candidate Starts for Lemuria_16:

(Start: 16 @10811 has 58 MA's), (26, 10907), (35, 11012), (39, 11021), (65, 11144), (70, 11168), (71, 11171), (80, 11204), (81, 11207), (89, 11258), (94, 11285), (101, 11327), (108, 11372), (116, 11408), (117, 11417), (118, 11420), (120, 11423), (133, 11489), (146, 11546), (152, 11588), (161, 11639), (168, 11699), (170, 11711), (173, 11723), (176, 11732), (190, 11813), (213, 11942), (222, 11990), (229, 12020), (232, 12032), (234, 12041), (239, 12083), (250, 12143), (256, 12161), (259, 12176), (263, 12197), (270, 12230), (277, 12257), (279, 12269), (289, 12302), (295, 12326), (298, 12344), (302, 12365), (321, 12461), (333, 12533), (371, 12791), (377, 12824), (393, 12908), (399, 12935), (405, 12968), (412, 12998), (421, 13040), (423, 13046), (437, 13130), (446, 13184), (468, 13292), (500, 13451), (506, 13475), (508, 13490), (516, 13514), (544, 13625), (561, 13712), (562, 13715), (580, 13802), (583, 13811), (589, 13868), (597, 13901), (615, 13955), (627, 13982), (653, 14096), (668, 14324), (673, 14390), (678, 14426), (682, 14483), (684, 14495), (693, 14573), (703, 14612), (711, 14639), (725, 14747),

Gene: Leston_19 Start: 12267, Stop: 16376, Start Num: 14

Candidate Starts for Leston_19:

(Start: 14 @12267 has 31 MA's), (43, 12525), (62, 12609), (77, 12675), (87, 12723), (97, 12783), (99, 12795), (103, 12816), (110, 12870), (116, 12900), (131, 12963), (134, 12984), (148, 13041), (158, 13101), (169, 13179), (174, 13203), (180, 13245), (186, 13278), (214, 13437), (218, 13458), (237, 13536), (248, 13599), (251, 13614), (252, 13617), (255, 13626), (257, 13632), (259, 13644), (265, 13680), (269, 13698), (295, 13800), (302, 13839), (331, 13992), (339, 14034), (344, 14058), (354, 14148), (356, 14181), (369, 14247), (383, 14322), (384, 14331), (388, 14349), (393, 14376), (409, 14454), (428, 14538), (448, 14661), (460, 14727), (481, 14829), (502, 14922), (510, 14952), (518, 14979), (521, 14985), (534, 15036), (537, 15057), (541, 15072), (542, 15078), (558, 15162), (568, 15192), (570, 15210), (581, 15249), (591, 15309), (598, 15342), (603, 15363), (611, 15387), (618, 15420), (644, 15504), (653, 15576), (676, 15885), (680, 15939), (682, 15954), (684, 15966), (689, 15996), (722, 16182), (727, 16206), (729, 16218), (744, 16305), (747, 16329),

Gene: Liefie_16 Start: 11463, Stop: 15476, Start Num: 15

Candidate Starts for Liefie_16:

(Start: 15 @11463 has 162 MA's), (34, 11664), (56, 11766), (57, 11778), (67, 11820), (70, 11841), (73, 11850), (99, 11985), (100, 11997), (103, 12006), (139, 12195), (142, 12213), (144, 12216), (149, 12237), (151, 12249), (162, 12321), (169, 12369), (192, 12501), (195, 12525), (210, 12606), (235, 12729), (248, 12813), (258, 12849), (265, 12894), (266, 12900), (293, 13008), (298, 13032), (302, 13053), (344, 13272), (362, 13422), (378, 13509), (399, 13617), (428, 13752), (444, 13857), (445, 13863), (450, 13881), (455, 13911), (500, 14133), (507, 14157), (512, 14172), (517, 14193), (534, 14247), (549, 14307), (566, 14397), (570, 14430), (587, 14493), (593, 14550), (599, 14583), (602, 14592), (678, 15096), (679, 15123), (682, 15153), (684, 15165), (685, 15174), (707, 15243), (728, 15324), (739, 15384), (743, 15402), (745, 15411),

Gene: LilPharaoh_17 Start: 11327, Stop: 15460, Start Num: 15

Candidate Starts for LilPharaoh_17:

(10, 11288), (Start: 15 @11327 has 162 MA's), (Start: 23 @11396 has 1 MA's), (31, 11483), (41, 11561), (62, 11669), (67, 11690), (74, 11723), (99, 11855), (101, 11870), (103, 11876), (110, 11930), (116, 11960), (131, 12023), (134, 12044), (142, 12083), (158, 12161), (169, 12239), (174, 12263), (214, 12497), (230, 12578), (240, 12638), (250, 12695), (260, 12731), (265, 12764), (271, 12788), (287, 12854), (290, 12863), (302, 12923), (323, 13031), (331, 13076), (354, 13232), (371, 13343), (373, 13352), (375, 13364), (384, 13415), (388, 13433), (393, 13460), (400, 13490), (419, 13583), (428, 13622), (456, 13790), (468, 13844), (475, 13877), (484, 13922), (502, 14003), (503, 14006), (526, 14090), (529, 14096), (531, 14105), (539, 14147), (552, 14183), (554, 14201), (558, 14240), (571, 14300), (599, 14441), (618, 14501), (623, 14516), (666, 14858), (684, 15047), (685, 15056),

(694, 15119), (743, 15395),

Gene: LindNT_21 Start: 12047, Stop: 15883, Start Num: 15

Candidate Starts for LindNT_21:

(Start: 15 @12047 has 162 MA's), (Start: 23 @12116 has 1 MA's), (31, 12203), (59, 12383), (67, 12410), (87, 12503), (97, 12563), (99, 12575), (110, 12650), (123, 12701), (131, 12743), (134, 12764), (142, 12803), (158, 12881), (169, 12959), (174, 12983), (196, 13124), (214, 13217), (216, 13226), (218, 13238), (220, 13247), (265, 13484), (271, 13508), (275, 13523), (282, 13556), (302, 13643), (309, 13667), (323, 13751), (338, 13835), (341, 13847), (345, 13868), (353, 13949), (400, 14024), (439, 14105), (450, 14153), (453, 14171), (455, 14183), (456, 14192), (463, 14228), (475, 14279), (486, 14336), (502, 14414), (504, 14423), (526, 14501), (531, 14516), (539, 14558), (554, 14612), (599, 14852), (623, 14927), (651, 15038), (664, 15257), (666, 15269), (676, 15371), (684, 15452), (685, 15461), (696, 15533), (705, 15563), (710, 15584), (727, 15704), (738, 15776), (742, 15794), (743, 15800),

Gene: Llorens_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for Llorens_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (265, 13550), (275, 13589), (282, 13622), (302, 13709), (309, 13733), (323, 13817), (338, 13901), (341, 13913), (345, 13934), (400, 14090), (439, 14171), (450, 14219), (453, 14237), (463, 14294), (475, 14345), (486, 14402), (502, 14480), (504, 14489), (526, 14567), (531, 14582), (539, 14624), (554, 14678), (599, 14918), (623, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (710, 15650), (727, 15770), (738, 15842), (742, 15860), (743, 15866),

Gene: LouisV14_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for LouisV14_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: Lunahalos_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for Lunahalos_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (265, 13550), (275, 13589), (282, 13622), (302, 13709), (309, 13733), (323, 13817), (338, 13901), (341, 13913), (345, 13934), (400, 14090), (439, 14171), (450, 14219), (453, 14237), (456, 14258), (463, 14294), (475, 14345), (486, 14402), (502, 14480), (504, 14489), (526, 14567), (531, 14582), (539, 14624), (554, 14678), (599, 14918), (623, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (710, 15650), (727, 15770), (738, 15842), (742, 15860), (743, 15866),

Gene: MOOREtheMARYer_16 Start: 11710, Stop: 15720, Start Num: 16

Candidate Starts for MOOREtheMARYer_16:

(Start: 16 @11710 has 58 MA's), (26, 11806), (50, 11986), (57, 12016), (64, 12040), (69, 12061), (74, 12079), (91, 12175), (93, 12181), (96, 12196), (98, 12208), (101, 12226), (107, 12268), (108, 12271), (116, 12307), (118, 12319), (126, 12349), (129, 12361), (131, 12370), (146, 12445), (152, 12487), (155, 12502), (161, 12538), (162, 12553), (169, 12601), (170, 12610), (190, 12712), (205, 12796), (215, 12853), (222, 12895), (230, 12928), (231, 12931), (232, 12937), (234, 12946), (239, 12988), (254, 13060), (256, 13066), (259, 13081), (262, 13099), (263, 13102), (277, 13162), (289, 13207), (295, 13231), (298, 13249), (302, 13270), (309, 13294), (312, 13306), (313, 13309), (321, 13366), (333, 13438), (341, 13480), (363, 13645), (378, 13732), (383, 13759), (386, 13780), (400, 13843), (410, 13894), (423, 13951), (428, 13975), (435, 14026), (442, 14068), (468, 14197), (489, 14287), (492, 14302), (493, 14305), (506, 14371), (508, 14386), (529, 14452), (540, 14506), (544, 14521), (559, 14602), (562, 14611), (583, 14704), (589, 14761), (597, 14794), (615, 14848), (620, 14869), (678, 15325), (679, 15352), (681, 15379), (684, 15394), (685, 15403), (696, 15490), (723, 15628), (725, 15646), (729, 15661),

Gene: MacKat_22 Start: 12093, Stop: 15926, Start Num: 15

Candidate Starts for MacKat_22:

(Start: 15 @12093 has 162 MA's), (Start: 23 @12162 has 1 MA's), (31, 12249), (59, 12426), (67, 12453), (85, 12537), (87, 12546), (99, 12618), (110, 12693), (129, 12777), (131, 12786), (134, 12807), (142, 12846), (158, 12924), (169, 13002), (184, 13092), (196, 13167), (214, 13260), (216, 13269), (218, 13281), (220, 13290), (265, 13527), (275, 13566), (282, 13599), (302, 13686), (309, 13710), (323, 13794), (338, 13878), (341, 13890), (345, 13911), (400, 14067), (439, 14148), (444, 14172), (450, 14196), (453, 14214), (456, 14235), (463, 14271), (475, 14322), (486, 14379), (502, 14457), (504, 14466), (526, 14544), (531, 14559), (539, 14601), (554, 14655), (599, 14895), (623, 14970), (651, 15081), (664, 15300), (666, 15312), (684, 15495), (685, 15504), (696, 15576), (705, 15606), (710, 15627), (727, 15747), (738, 15819), (742, 15837), (743, 15843),

Gene: MacnCheese_21 Start: 12433, Stop: 16590, Start Num: 15

Candidate Starts for MacnCheese_21:

(4, 12283), (Start: 15 @12433 has 162 MA's), (Start: 24 @12523 has 1 MA's), (26, 12529), (31, 12589), (57, 12751), (74, 12826), (85, 12877), (87, 12886), (97, 12946), (99, 12958), (103, 12979), (110, 13033), (131, 13126), (134, 13147), (142, 13186), (149, 13210), (158, 13264), (165, 13309), (169, 13342), (174, 13366), (204, 13540), (218, 13621), (250, 13798), (261, 13843), (265, 13867), (270, 13888), (281, 13936), (293, 13981), (298, 14005), (302, 14026), (318, 14104), (329, 14182), (339, 14242), (340, 14245), (343, 14260), (373, 14476), (382, 14524), (390, 14566), (393, 14584), (400, 14614), (403, 14635), (405, 14644), (412, 14674), (428, 14746), (432, 14776), (453, 14893), (456, 14914), (463, 14950), (468, 14968), (475, 15001), (481, 15046), (487, 15061), (502, 15142), (503, 15145), (524, 15214), (526, 15229), (529, 15235), (531, 15244), (554, 15340), (558, 15379), (595, 15556), (599, 15580), (623, 15655), (672, 16069), (676, 16099), (677, 16108), (678, 16111), (685, 16189), (688, 16207), (689, 16210), (719, 16384), (721, 16402), (731, 16447), (736, 16480), (743, 16516), (746, 16531), (747, 16543),

Gene: Maco6_17 Start: 10697, Stop: 14146, Start Num: 28

Candidate Starts for Maco6_17:

(Start: 28 @10697 has 2 MA's), (30, 10712), (36, 10760), (38, 10763), (45, 10808), (82, 10931), (143, 11258), (147, 11270), (150, 11291), (163, 11375), (170, 11429), (172, 11438), (181, 11492), (182, 11501), (187, 11525), (188, 11534), (193, 11576), (204, 11621), (206, 11633), (209, 11654), (214, 11678), (219, 11708), (224, 11732), (243, 11807), (245, 11819), (249, 11843), (250, 11852), (268, 11930), (318, 11987), (335, 12056), (367, 12272), (376, 12317), (402, 12440), (420, 12518), (430, 12551), (434, 12578), (437, 12590), (457, 12698), (458, 12707), (485, 12800), (494, 12830), (503, 12866), (511, 12896), (520, 12914), (527, 12941), (529, 12944), (547, 12998), (548, 13001), (565, 13091), (573, 13139), (577, 13154), (581, 13172), (587, 13187), (594, 13247), (599, 13280), (602, 13289), (606, 13298), (619, 13334), (624, 13349), (650, 13421), (658, 13544), (675, 13739), (685, 13835), (688, 13853), (694, 13895), (695, 13901), (703, 13928), (722, 14030), (724, 14039), (731,

14078),

Gene: Maliketh_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Maliketh_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: Malthus_22 Start: 13237, Stop: 17412, Start Num: 16

Candidate Starts for Malthus_22:

(9, 13201), (Start: 16 @13237 has 58 MA's), (34, 13435), (85, 13675), (87, 13684), (103, 13777), (122, 13879), (131, 13924), (142, 13984), (158, 14062), (169, 14140), (183, 14227), (184, 14230), (190, 14260), (194, 14293), (200, 14317), (215, 14401), (221, 14431), (225, 14458), (246, 14566), (249, 14587), (251, 14599), (255, 14611), (265, 14665), (302, 14824), (308, 14845), (323, 14953), (342, 15073), (394, 15415), (400, 15433), (410, 15484), (412, 15493), (422, 15538), (426, 15559), (451, 15679), (469, 15778), (470, 15790), (474, 15799), (493, 15871), (502, 15922), (503, 15925), (510, 15952), (539, 16051), (545, 16069), (558, 16144), (597, 16333), (599, 16345), (623, 16420), (634, 16450), (654, 16606), (662, 16726), (670, 16834), (684, 16984), (703, 17113), (705, 17116), (720, 17215), (726, 17242), (743, 17338), (751, 17401),

Gene: Marcoliusprime_17 Start: 10116, Stop: 13784, Start Num: 14

Candidate Starts for Marcoliusprime_17:

(Start: 14 @10116 has 31 MA's), (Start: 23 @10188 has 1 MA's), (66, 10422), (84, 10473), (99, 10566), (103, 10587), (110, 10641), (131, 10734), (134, 10755), (139, 10776), (140, 10782), (158, 10872), (164, 10914), (169, 10950), (177, 10983), (178, 10995), (181, 11019), (184, 11040), (189, 11064), (190, 11070), (195, 11106), (196, 11115), (204, 11148), (206, 11160), (210, 11187), (248, 11370), (250, 11382), (252, 11388), (258, 11406), (261, 11427), (265, 11451), (280, 11475), (303, 11484), (307, 11499), (311, 11511), (322, 11544), (331, 11592), (350, 11733), (351, 11739), (355, 11775), (361, 11802), (366, 11820), (393, 11946), (411, 12012), (427, 12066), (433, 12099), (437, 12120), (442, 12144), (447, 12174), (452, 12195), (509, 12417), (536, 12510), (557, 12588), (586, 12711), (612, 12816), (631, 12864), (671, 13251), (676, 13281), (677, 13290), (679, 13320), (708, 13485), (727, 13614), (743, 13707),

Gene: MarkPhew_21 Start: 10973, Stop: 15046, Start Num: 16

Candidate Starts for MarkPhew_21:

(2, 10757), (9, 10937), (Start: 16 @10973 has 58 MA's), (26, 11066), (42, 11198), (47, 11225), (48, 11234), (64, 11297), (74, 11336), (78, 11351), (89, 11414), (90, 11426), (98, 11465), (113, 11558), (115, 11570), (128, 11624), (152, 11741), (155, 11756), (161, 11792), (168, 11852), (169, 11855), (178, 11897), (190, 11966), (222, 12149), (234, 12200), (236, 12212), (250, 12302), (254, 12314), (256, 12320), (259, 12335), (266, 12374), (300, 12512), (302, 12524), (304, 12530), (308, 12545), (310, 12551), (373, 12869), (382, 12917), (384, 12932), (393, 12977), (400, 13007), (410, 13058), (414, 13079), (423, 13115), (428, 13139), (456, 13307), (463, 13343), (468, 13361), (475, 13394), (486, 13451), (502, 13529), (503, 13532), (526, 13616), (554, 13727), (558, 13766), (585, 13871), (599, 13967), (623, 14042), (664, 14390), (684, 14588), (727, 14876), (729, 14888), (738, 14960), (743, 14981),

Gene: Marmie_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Marmie_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: Marshawn_22 Start: 11657, Stop: 15661, Start Num: 16

Candidate Starts for Marshawn_22:

(1, 11312), (2, 11444), (9, 11621), (Start: 16 @11657 has 58 MA's), (19, 11681), (26, 11750), (47, 11909), (48, 11918), (63, 11975), (88, 12089), (89, 12098), (90, 12110), (96, 12137), (98, 12149), (102, 12170), (114, 12251), (128, 12308), (133, 12338), (152, 12425), (155, 12440), (156, 12449), (161, 12476), (169, 12539), (170, 12548), (190, 12650), (203, 12725), (222, 12833), (230, 12866), (237, 12908), (239, 12926), (250, 12986), (254, 12998), (256, 13004), (259, 13019), (262, 13037), (263, 13040), (266, 13058), (270, 13073), (278, 13109), (292, 13154), (293, 13163), (296, 13178), (300, 13196), (302, 13208), (304, 13214), (308, 13229), (310, 13235), (340, 13322), (353, 13430), (373, 13553), (384, 13616), (393, 13661), (400, 13691), (410, 13742), (423, 13799), (428, 13823), (439, 13904), (450, 13952), (456, 13991), (463, 14027), (475, 14078), (502, 14219), (503, 14222), (526, 14306), (531, 14321), (539, 14363), (558, 14456), (599, 14657), (623, 14732), (645, 14810), (662, 15026), (664, 15083), (678, 15212), (679, 15239), (684, 15281), (696, 15371), (699, 15383), (713, 15422), (734, 15548), (737, 15572), (738, 15575), (743, 15596),

Gene: McMater_21 Start: 11128, Stop: 15282, Start Num: 16

Candidate Starts for McMater_21:

(9, 11086), (Start: 16 @11128 has 58 MA's), (26, 11221), (47, 11380), (53, 11407), (75, 11497), (76, 11500), (91, 11587), (109, 11695), (125, 11764), (129, 11782), (146, 11866), (152, 11908), (155, 11923), (156, 11932), (161, 11959), (169, 12022), (178, 12064), (190, 12133), (201, 12196), (202, 12205), (222, 12319), (223, 12325), (232, 12361), (234, 12370), (236, 12382), (237, 12394), (239, 12412), (250, 12472), (254, 12484), (256, 12490), (259, 12505), (262, 12523), (263, 12526), (266, 12544), (270, 12559), (279, 12598), (295, 12655), (296, 12664), (302, 12694), (308, 12715), (315, 12745), (319, 12778), (333, 12862), (338, 12892), (341, 12904), (353, 13006), (365, 13084), (373, 13129), (377, 13153), (387, 13207), (388, 13210), (391, 13225), (400, 13267), (404, 13294), (406, 13303), (410, 13318), (411, 13324), (412, 13327), (438, 13468), (444, 13504), (445, 13510), (450, 13528), (454, 13555), (456, 13567), (468, 13621), (475, 13654), (487, 13714), (502, 13795), (503, 13798), (526, 13882), (531, 13897), (558, 14032), (574, 14098), (599, 14233), (662, 14584), (684, 14839), (685, 14848), (691, 14914), (727, 15109), (731, 15130), (738, 15181), (742, 15199), (743, 15205), (748, 15244),

Gene: Mdavu_17 Start: 11315, Stop: 15448, Start Num: 15

Candidate Starts for Mdavu_17:

(10, 11276), (Start: 15 @11315 has 162 MA's), (Start: 23 @11384 has 1 MA's), (31, 11471), (41, 11549), (62, 11657), (67, 11678), (74, 11711), (99, 11843), (101, 11858), (103, 11864), (110, 11918), (116, 11948), (131, 12011), (134, 12032), (142, 12071), (158, 12149), (169, 12227), (174, 12251), (214, 12485), (230, 12566), (240, 12626), (250, 12683), (260, 12719), (265, 12752), (271, 12776), (287, 12842), (290, 12851), (302, 12911), (323, 13019), (331, 13064), (354, 13220), (371, 13331), (373, 13340), (375, 13352), (384, 13403), (388, 13421), (393, 13448), (400, 13478), (419, 13571), (428, 13610), (456, 13778), (468, 13832), (475, 13865), (484, 13910), (502, 13991), (503, 13994), (526, 14078), (529, 14084), (531, 14093), (539, 14135), (552, 14171), (554, 14189), (558, 14228), (571, 14288), (599, 14429), (618, 14489), (623, 14504), (666, 14846), (684, 15035), (685, 15044),

(694, 15107), (743, 15383),

Gene: MeaningOfLife_21 Start: 12052, Stop: 15885, Start Num: 15

Candidate Starts for MeaningOfLife_21:

(Start: 15 @12052 has 162 MA's), (Start: 23 @12121 has 1 MA's), (Start: 24 @12142 has 1 MA's), (31, 12208), (59, 12385), (67, 12412), (84, 12484), (85, 12496), (87, 12505), (99, 12577), (110, 12652), (129, 12736), (131, 12745), (134, 12766), (142, 12805), (158, 12883), (169, 12961), (184, 13051), (196, 13126), (214, 13219), (216, 13228), (218, 13240), (220, 13249), (265, 13486), (275, 13525), (282, 13558), (302, 13645), (309, 13669), (323, 13753), (338, 13837), (341, 13849), (345, 13870), (400, 14026), (439, 14107), (450, 14155), (453, 14173), (456, 14194), (463, 14230), (475, 14281), (486, 14338), (502, 14416), (504, 14425), (526, 14503), (531, 14518), (539, 14560), (554, 14614), (599, 14854), (623, 14929), (651, 15040), (664, 15259), (666, 15271), (684, 15454), (685, 15463), (696, 15535), (705, 15565), (710, 15586), (727, 15706), (738, 15778), (742, 15796), (743, 15802),

Gene: Megsy_21 Start: 12050, Stop: 15886, Start Num: 15

Candidate Starts for Megsy_21:

(Start: 15 @12050 has 162 MA's), (Start: 23 @12119 has 1 MA's), (31, 12206), (59, 12386), (67, 12413), (87, 12506), (97, 12566), (99, 12578), (110, 12653), (123, 12704), (131, 12746), (134, 12767), (142, 12806), (158, 12884), (169, 12962), (174, 12986), (196, 13127), (214, 13220), (216, 13229), (218, 13241), (220, 13250), (265, 13487), (271, 13511), (275, 13526), (282, 13559), (302, 13646), (309, 13670), (323, 13754), (338, 13838), (341, 13850), (345, 13871), (353, 13952), (400, 14027), (439, 14108), (450, 14156), (453, 14174), (455, 14186), (456, 14195), (463, 14231), (475, 14282), (486, 14339), (502, 14417), (504, 14426), (526, 14504), (531, 14519), (554, 14615), (599, 14855), (623, 14930), (651, 15041), (664, 15260), (666, 15272), (676, 15374), (684, 15455), (685, 15464), (696, 15536), (705, 15566), (710, 15587), (727, 15707), (738, 15779), (742, 15797), (743, 15803),

Gene: Mercurio_17 Start: 11458, Stop: 15474, Start Num: 16

Candidate Starts for Mercurio_17:

(Start: 16 @11458 has 58 MA's), (48, 11725), (65, 11791), (70, 11815), (71, 11818), (78, 11842), (80, 11851), (81, 11854), (89, 11905), (94, 11932), (101, 11974), (108, 12019), (112, 12037), (113, 12040), (118, 12067), (130, 12115), (133, 12136), (146, 12193), (152, 12235), (160, 12280), (161, 12286), (169, 12349), (170, 12358), (173, 12370), (176, 12379), (190, 12460), (222, 12637), (229, 12667), (230, 12670), (234, 12688), (236, 12700), (239, 12730), (245, 12757), (250, 12790), (256, 12808), (259, 12823), (263, 12844), (270, 12877), (277, 12904), (289, 12949), (295, 12973), (298, 12991), (302, 13012), (321, 13108), (330, 13153), (333, 13180), (349, 13309), (371, 13438), (393, 13555), (399, 13582), (405, 13615), (422, 13690), (423, 13693), (437, 13777), (442, 13810), (454, 13873), (500, 14098), (506, 14122), (508, 14137), (516, 14161), (544, 14272), (559, 14353), (562, 14362), (583, 14455), (589, 14512), (597, 14545), (601, 14560), (682, 15139), (684, 15151), (686, 15166), (696, 15238), (711, 15289), (725, 15397),

Gene: Milly_17 Start: 10116, Stop: 13784, Start Num: 14

Candidate Starts for Milly_17:

(Start: 14 @10116 has 31 MA's), (Start: 23 @10188 has 1 MA's), (66, 10422), (84, 10473), (99, 10566), (103, 10587), (110, 10641), (131, 10734), (134, 10755), (139, 10776), (140, 10782), (158, 10872), (164, 10914), (169, 10950), (177, 10983), (178, 10995), (181, 11019), (184, 11040), (189, 11064), (190, 11070), (195, 11106), (196, 11115), (204, 11148), (206, 11160), (210, 11187), (248, 11370), (250, 11382), (252, 11388), (258, 11406), (261, 11427), (265, 11451), (280, 11475), (303, 11484), (307, 11499), (311, 11511), (322, 11544), (331, 11592), (350, 11733), (351, 11739), (355, 11775), (361, 11802), (366, 11820), (373, 11850), (393, 11946), (401, 11979), (411, 12012), (427, 12066), (433, 12099), (437, 12120), (442, 12144), (447, 12174), (452, 12195), (509, 12417), (536, 12510), (557, 12588), (586, 12711), (612, 12816), (631, 12864), (676, 13281), (677, 13290), (679, 13320), (708, 13485), (727, 13614), (743, 13707),

Gene: Miryou_19 Start: 12115, Stop: 16230, Start Num: 14

Candidate Starts for Miryou_19:

(Start: 14 @12115 has 31 MA's), (43, 12373), (62, 12457), (77, 12523), (87, 12571), (97, 12631), (99, 12643), (103, 12664), (110, 12718), (116, 12748), (131, 12811), (134, 12832), (148, 12889), (158, 12949), (164, 12991), (169, 13027), (174, 13051), (180, 13093), (186, 13126), (214, 13285), (218, 13306), (237, 13384), (248, 13447), (251, 13462), (252, 13465), (255, 13474), (257, 13480), (259, 13492), (265, 13528), (269, 13546), (295, 13648), (302, 13687), (331, 13840), (339, 13882), (344, 13906), (354, 13996), (356, 14029), (369, 14095), (383, 14170), (384, 14179), (388, 14197), (393, 14224), (409, 14302), (428, 14386), (448, 14509), (460, 14575), (481, 14677), (502, 14770), (510, 14800), (518, 14827), (521, 14833), (534, 14884), (537, 14905), (541, 14920), (542, 14926), (558, 15010), (568, 15040), (570, 15058), (581, 15097), (591, 15157), (598, 15190), (603, 15211), (611, 15235), (618, 15268), (644, 15352), (653, 15424), (676, 15739), (680, 15793), (682, 15808), (684, 15820), (689, 15850), (722, 16036), (729, 16072), (744, 16159), (747, 16183),

Gene: MissDaisy_22 Start: 13088, Stop: 17254, Start Num: 16

Candidate Starts for MissDaisy_22:

(9, 13052), (Start: 16 @13088 has 58 MA's), (34, 13286), (84, 13514), (85, 13526), (87, 13535), (90, 13565), (103, 13628), (131, 13775), (134, 13796), (142, 13835), (144, 13838), (158, 13913), (169, 13991), (183, 14078), (184, 14081), (190, 14111), (194, 14144), (200, 14168), (215, 14252), (221, 14282), (225, 14309), (246, 14417), (249, 14438), (251, 14450), (255, 14462), (265, 14516), (302, 14675), (308, 14696), (323, 14804), (342, 14924), (378, 15173), (400, 15284), (410, 15335), (412, 15344), (422, 15389), (426, 15410), (446, 15509), (450, 15524), (451, 15530), (464, 15599), (468, 15620), (469, 15629), (470, 15641), (474, 15650), (493, 15722), (502, 15773), (503, 15776), (510, 15803), (539, 15902), (545, 15920), (558, 15995), (597, 16184), (599, 16196), (623, 16271), (654, 16451), (662, 16571), (670, 16679), (675, 16739), (684, 16826), (689, 16856), (700, 16946), (703, 16955), (705, 16958), (720, 17057), (726, 17084), (743, 17180), (751, 17243),

Gene: Mitti_22 Start: 13237, Stop: 17412, Start Num: 16

Candidate Starts for Mitti_22:

(9, 13201), (Start: 16 @13237 has 58 MA's), (34, 13435), (85, 13675), (87, 13684), (103, 13777), (131, 13924), (134, 13945), (142, 13984), (144, 13987), (158, 14062), (169, 14140), (183, 14227), (184, 14230), (190, 14260), (194, 14293), (200, 14317), (215, 14401), (221, 14431), (225, 14458), (246, 14566), (249, 14587), (251, 14599), (255, 14611), (265, 14665), (302, 14824), (308, 14845), (323, 14953), (342, 15073), (400, 15433), (410, 15484), (412, 15493), (422, 15538), (426, 15559), (469, 15778), (470, 15790), (474, 15799), (493, 15871), (502, 15922), (503, 15925), (510, 15952), (539, 16051), (545, 16069), (558, 16144), (597, 16333), (599, 16345), (623, 16420), (654, 16606), (662, 16726), (670, 16834), (684, 16984), (700, 17104), (703, 17113), (705, 17116), (720, 17215), (726, 17242), (743, 17338), (751, 17401),

Gene: Mowgli_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Mowgli_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: Muddy_19 Start: 11647, Stop: 15096, Start Num: 28

Candidate Starts for Muddy_19:

(Start: 28 @11647 has 2 MA's), (30, 11662), (36, 11710), (38, 11713), (45, 11758), (82, 11881), (138, 12187), (143, 12208), (147, 12220), (150, 12241), (163, 12325), (170, 12379), (172, 12388), (187, 12475), (188, 12484), (193, 12526), (204, 12571), (206, 12583), (209, 12604), (214, 12628), (224, 12682), (238, 12736), (243, 12757), (245, 12769), (249, 12793), (250, 12802), (268, 12880), (302, 12898), (318, 12937), (335, 13006), (345, 13060), (357, 13180), (366, 13216), (367, 13222), (374, 13255), (376, 13267), (402, 13390), (430, 13501), (434, 13528), (437, 13540), (457, 13648), (458, 13657), (485, 13750), (494, 13780), (503, 13816), (511, 13846), (520, 13864), (527, 13891), (529, 13894), (547, 13948), (548, 13951), (565, 14041), (573, 14089), (577, 14104), (581, 14122), (587, 14137), (594, 14197), (599, 14230), (602, 14239), (606, 14248), (619, 14284), (624, 14299), (658, 14494), (675, 14689), (685, 14785), (688, 14803), (694, 14845), (695, 14851), (703, 14878), (722, 14980), (724, 14989), (731, 15028),

Gene: Mufasa_17 Start: 10138, Stop: 13812, Start Num: 14

Candidate Starts for Mufasa_17:

(Start: 14 @10138 has 31 MA's), (Start: 23 @10210 has 1 MA's), (32, 10309), (66, 10444), (84, 10495), (99, 10588), (110, 10663), (131, 10756), (134, 10777), (139, 10798), (140, 10804), (158, 10894), (164, 10936), (169, 10972), (177, 11005), (178, 11017), (181, 11041), (184, 11062), (189, 11086), (190, 11092), (195, 11128), (196, 11137), (204, 11170), (206, 11182), (210, 11209), (248, 11392), (250, 11404), (252, 11410), (261, 11449), (265, 11473), (303, 11506), (308, 11524), (311, 11533), (322, 11566), (350, 11755), (351, 11761), (355, 11797), (361, 11824), (366, 11842), (370, 11860), (373, 11872), (393, 11968), (401, 12001), (411, 12034), (427, 12088), (433, 12121), (437, 12142), (442, 12166), (447, 12196), (452, 12217), (495, 12385), (497, 12403), (509, 12439), (536, 12532), (557, 12610), (586, 12733), (631, 12886), (671, 13273), (676, 13303), (677, 13312), (679, 13342), (687, 13402), (708, 13510), (727, 13642), (743, 13735),

Gene: Murucutumbu_21 Start: 12036, Stop: 15869, Start Num: 15

Candidate Starts for Murucutumbu_21:

(Start: 15 @12036 has 162 MA's), (Start: 23 @12105 has 1 MA's), (31, 12192), (59, 12372), (67, 12399), (85, 12483), (87, 12492), (97, 12552), (99, 12564), (110, 12639), (119, 12681), (129, 12723), (131, 12732), (134, 12753), (142, 12792), (158, 12870), (169, 12948), (196, 13113), (214, 13206), (218, 13227), (220, 13236), (265, 13473), (271, 13497), (275, 13512), (282, 13545), (302, 13632), (323, 13740), (338, 13824), (341, 13836), (345, 13857), (353, 13938), (400, 14013), (439, 14094), (441, 14103), (450, 14142), (453, 14160), (456, 14181), (463, 14217), (475, 14268), (486, 14325), (502, 14403), (504, 14412), (526, 14490), (531, 14505), (539, 14547), (554, 14601), (599, 14841), (623, 14916), (651, 15027), (664, 15246), (676, 15360), (684, 15441), (685, 15450), (696, 15522), (705, 15552), (710, 15573), (727, 15690), (738, 15762), (743, 15786),

Gene: Mynx_21 Start: 12099, Stop: 15932, Start Num: 15

Candidate Starts for Mynx_21:

(Start: 15 @12099 has 162 MA's), (Start: 23 @12168 has 1 MA's), (31, 12255), (59, 12432), (67, 12459), (84, 12531), (85, 12543), (87, 12552), (99, 12624), (110, 12699), (129, 12783), (131, 12792), (134, 12813), (142, 12852), (158, 12930), (169, 13008), (184, 13098), (196, 13173), (214, 13266), (216, 13275), (218, 13287), (220, 13296), (265, 13533), (275, 13572), (282, 13605), (302, 13692), (309, 13716), (323, 13800), (338, 13884), (341, 13896), (345, 13917), (400, 14073), (439, 14154), (450, 14202), (453, 14220), (456, 14241), (463, 14277), (475, 14328), (486, 14385), (502, 14463), (504, 14472), (526, 14550), (531, 14565), (539, 14607), (554, 14661), (599, 14901), (623, 14976), (651, 15087), (664, 15306), (666, 15318), (684, 15501), (685, 15510), (696, 15582), (705, 15612), (710, 15633), (727, 15753), (738, 15825), (742, 15843), (743, 15849),

Gene: Neighly_19 Start: 11979, Stop: 16091, Start Num: 14

Candidate Starts for Neighly_19:

(Start: 14 @11979 has 31 MA's), (Start: 24 @12072 has 1 MA's), (32, 12150), (33, 12174), (43, 12234), (62, 12318), (87, 12432), (97, 12492), (99, 12504), (103, 12525), (110, 12579), (122, 12627), (131,

12672), (134, 12693), (158, 12810), (169, 12888), (174, 12912), (184, 12978), (196, 13053), (214, 13146), (220, 13176), (252, 13350), (261, 13389), (265, 13413), (270, 13434), (284, 13494), (302, 13572), (320, 13659), (331, 13725), (339, 13767), (341, 13776), (348, 13860), (354, 13881), (356, 13914), (369, 13980), (373, 14001), (383, 14055), (384, 14064), (388, 14082), (393, 14109), (400, 14139), (406, 14175), (426, 14265), (428, 14271), (429, 14289), (448, 14394), (460, 14460), (502, 14655), (510, 14685), (521, 14718), (534, 14769), (537, 14790), (541, 14805), (542, 14811), (558, 14895), (570, 14943), (581, 14982), (591, 15042), (598, 15075), (603, 15096), (611, 15120), (618, 15150), (644, 15216), (653, 15288), (676, 15603), (677, 15612), (678, 15615), (679, 15642), (680, 15657), (682, 15672), (684, 15684), (689, 15714), (696, 15768), (700, 15786), (717, 15855), (722, 15903), (727, 15927), (729, 15939), (731, 15948), (744, 16020), (747, 16044), (753, 16083),

Gene: Nibb_20 Start: 11122, Stop: 15189, Start Num: 16

Candidate Starts for Nibb_20:

(9, 11086), (Start: 16 @11122 has 58 MA's), (42, 11347), (47, 11374), (48, 11383), (74, 11485), (98, 11614), (113, 11707), (115, 11719), (128, 11773), (133, 11803), (152, 11890), (155, 11905), (168, 12001), (169, 12004), (178, 12046), (190, 12115), (222, 12298), (234, 12349), (236, 12361), (239, 12391), (250, 12451), (254, 12463), (256, 12469), (259, 12484), (262, 12502), (263, 12505), (298, 12652), (300, 12661), (302, 12673), (304, 12679), (308, 12694), (310, 12700), (339, 12784), (346, 12853), (373, 13018), (382, 13066), (393, 13126), (400, 13156), (410, 13207), (414, 13228), (423, 13264), (432, 13318), (456, 13456), (468, 13510), (475, 13543), (479, 13561), (486, 13600), (502, 13678), (503, 13681), (526, 13765), (539, 13822), (552, 13858), (554, 13876), (558, 13915), (599, 14116), (614, 14158), (623, 14191), (664, 14533), (684, 14731), (727, 15019), (729, 15031), (738, 15103), (743, 15124),

Gene: Nikao_17 Start: 11327, Stop: 15460, Start Num: 15

Candidate Starts for Nikao_17:

(10, 11288), (Start: 15 @11327 has 162 MA's), (Start: 23 @11396 has 1 MA's), (31, 11483), (41, 11561), (62, 11669), (67, 11690), (74, 11723), (99, 11855), (101, 11870), (103, 11876), (110, 11930), (116, 11960), (131, 12023), (134, 12044), (142, 12083), (158, 12161), (169, 12239), (174, 12263), (214, 12497), (230, 12578), (240, 12638), (250, 12695), (260, 12731), (265, 12764), (271, 12788), (287, 12854), (290, 12863), (302, 12923), (323, 13031), (331, 13076), (354, 13232), (371, 13343), (373, 13352), (375, 13364), (384, 13415), (388, 13433), (393, 13460), (400, 13490), (419, 13583), (428, 13622), (431, 13649), (456, 13790), (468, 13844), (475, 13877), (484, 13922), (502, 14003), (503, 14006), (526, 14090), (529, 14096), (531, 14105), (539, 14147), (552, 14183), (554, 14201), (558, 14240), (571, 14300), (599, 14441), (618, 14501), (623, 14516), (666, 14858), (684, 15047), (685, 15056), (694, 15119), (743, 15395),

Gene: Niklas_21 Start: 11128, Stop: 15282, Start Num: 16

Candidate Starts for Niklas_21:

(9, 11086), (Start: 16 @11128 has 58 MA's), (26, 11221), (47, 11380), (53, 11407), (75, 11497), (76, 11500), (91, 11587), (109, 11695), (125, 11764), (129, 11782), (146, 11866), (152, 11908), (155, 11923), (156, 11932), (161, 11959), (169, 12022), (178, 12064), (190, 12133), (201, 12196), (202, 12205), (222, 12319), (223, 12325), (232, 12361), (234, 12370), (236, 12382), (237, 12394), (239, 12412), (250, 12472), (254, 12484), (256, 12490), (259, 12505), (262, 12523), (263, 12526), (266, 12544), (270, 12559), (279, 12598), (295, 12655), (296, 12664), (302, 12694), (308, 12715), (315, 12745), (319, 12778), (333, 12862), (338, 12892), (341, 12904), (353, 13006), (365, 13084), (373, 13129), (377, 13153), (387, 13207), (388, 13210), (391, 13225), (400, 13267), (404, 13294), (406, 13303), (410, 13318), (411, 13324), (412, 13327), (438, 13468), (444, 13504), (445, 13510), (450, 13528), (454, 13555), (456, 13567), (468, 13621), (475, 13654), (487, 13714), (502, 13795), (503, 13798), (526, 13882), (531, 13897), (558, 14032), (574, 14098), (599, 14233), (662, 14584), (684, 14839), (685, 14848), (691, 14914), (727, 15109), (731, 15130), (738, 15181), (742, 15199), (743, 15205), (748, 15244),

Gene: NoShow_16 Start: 10206, Stop: 14354, Start Num: 5

Candidate Starts for NoShow_16:

(Start: 5 @10206 has 1 MA's), (6, 10218), (Start: 12 @10323 has 1 MA's), (13, 10344), (44, 10602), (51, 10635), (53, 10638), (60, 10671), (75, 10728), (79, 10743), (80, 10746), (89, 10800), (92, 10821), (96, 10839), (98, 10851), (102, 10872), (104, 10881), (107, 10911), (131, 11013), (132, 11022), (139, 11055), (153, 11121), (155, 11133), (156, 11142), (163, 11187), (167, 11220), (169, 11232), (175, 11259), (190, 11343), (203, 11418), (208, 11457), (218, 11502), (222, 11526), (232, 11568), (233, 11571), (234, 11577), (236, 11589), (243, 11634), (254, 11691), (256, 11697), (259, 11712), (262, 11730), (270, 11766), (275, 11784), (278, 11802), (286, 11829), (289, 11838), (298, 11880), (299, 11886), (308, 11922), (310, 11928), (316, 11961), (319, 11985), (323, 12009), (354, 12213), (356, 12246), (358, 12258), (366, 12294), (381, 12378), (382, 12384), (398, 12477), (407, 12519), (409, 12531), (411, 12540), (416, 12564), (424, 12597), (435, 12675), (439, 12705), (442, 12717), (443, 12726), (448, 12747), (459, 12801), (469, 12846), (483, 12921), (496, 12996), (506, 13032), (513, 13059), (515, 13068), (519, 13080), (530, 13116), (559, 13257), (562, 13266), (574, 13311), (583, 13344), (589, 13398), (597, 13431), (610, 13470), (616, 13491), (625, 13518), (648, 13599), (656, 13680), (657, 13692), (675, 13938), (679, 13983), (684, 14025), (688, 14052), (692, 14106), (698, 14127), (701, 14142), (703, 14148), (714, 14202), (715, 14208), (719, 14244), (730, 14301), (732, 14310),

Gene: November_20 Start: 12038, Stop: 16228, Start Num: 15

Candidate Starts for November_20:

(Start: 15 @12038 has 162 MA's), (Start: 23 @12107 has 1 MA's), (Start: 24 @12128 has 1 MA's), (31, 12194), (57, 12356), (74, 12431), (85, 12482), (87, 12491), (97, 12551), (99, 12563), (103, 12584), (110, 12638), (116, 12668), (131, 12731), (134, 12752), (142, 12791), (158, 12869), (169, 12947), (174, 12971), (182, 13025), (184, 13037), (195, 13103), (204, 13145), (210, 13184), (212, 13196), (218, 13226), (220, 13235), (241, 13349), (244, 13364), (255, 13418), (261, 13448), (265, 13472), (270, 13493), (281, 13541), (293, 13586), (294, 13589), (302, 13631), (308, 13652), (317, 13700), (322, 13757), (325, 13772), (329, 13787), (332, 13808), (334, 13820), (343, 13865), (354, 13961), (400, 14219), (403, 14240), (423, 14327), (428, 14351), (431, 14378), (432, 14381), (437, 14411), (445, 14462), (453, 14498), (475, 14606), (502, 14741), (503, 14744), (523, 14810), (525, 14816), (534, 14855), (550, 14927), (551, 14933), (554, 14954), (569, 15038), (575, 15068), (579, 15089), (582, 15101), (594, 15182), (600, 15215), (604, 15224), (607, 15230), (618, 15272), (626, 15290), (636, 15323), (638, 15329), (664, 15617), (676, 15731), (677, 15740), (678, 15743), (684, 15812), (710, 15947), (727, 16067), (743, 16163), (748, 16202),

Gene: Nutello_17 Start: 11327, Stop: 15460, Start Num: 15

Candidate Starts for Nutello_17:

(10, 11288), (Start: 15 @11327 has 162 MA's), (Start: 23 @11396 has 1 MA's), (31, 11483), (41, 11561), (62, 11669), (67, 11690), (74, 11723), (99, 11855), (101, 11870), (103, 11876), (110, 11930), (116, 11960), (131, 12023), (134, 12044), (142, 12083), (158, 12161), (169, 12239), (174, 12263), (214, 12497), (230, 12578), (240, 12638), (250, 12695), (260, 12731), (265, 12764), (271, 12788), (287, 12854), (290, 12863), (302, 12923), (323, 13031), (331, 13076), (354, 13232), (371, 13343), (373, 13352), (375, 13364), (384, 13415), (388, 13433), (393, 13460), (400, 13490), (419, 13583), (428, 13622), (456, 13790), (468, 13844), (475, 13877), (484, 13922), (502, 14003), (503, 14006), (526, 14090), (529, 14096), (531, 14105), (539, 14147), (552, 14183), (554, 14201), (558, 14240), (571, 14300), (599, 14441), (618, 14501), (623, 14516), (666, 14858), (684, 15047), (685, 15056), (694, 15119), (743, 15395),

Gene: OctaviousRex_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for OctaviousRex_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814),

(258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: OkiRoe_19 Start: 12137, Stop: 16246, Start Num: 14

Candidate Starts for OkiRoe_19:

(Start: 14 @12137 has 31 MA's), (43, 12395), (62, 12479), (77, 12545), (87, 12593), (97, 12653), (99, 12665), (103, 12686), (110, 12740), (116, 12770), (131, 12833), (134, 12854), (148, 12911), (158, 12971), (169, 13049), (174, 13073), (180, 13115), (186, 13148), (214, 13307), (218, 13328), (237, 13406), (248, 13469), (251, 13484), (252, 13487), (255, 13496), (257, 13502), (259, 13514), (269, 13568), (295, 13670), (302, 13709), (331, 13862), (339, 13904), (344, 13928), (354, 14018), (356, 14051), (383, 14192), (384, 14201), (388, 14219), (393, 14246), (409, 14324), (428, 14408), (448, 14531), (460, 14597), (481, 14699), (502, 14792), (510, 14822), (518, 14849), (521, 14855), (534, 14906), (537, 14927), (541, 14942), (542, 14948), (558, 15032), (570, 15080), (581, 15119), (591, 15179), (598, 15212), (603, 15233), (611, 15257), (618, 15290), (644, 15374), (653, 15446), (676, 15755), (680, 15809), (682, 15824), (684, 15836), (689, 15866), (722, 16052), (729, 16088), (744, 16175), (747, 16199),

Gene: Olga_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Olga_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: OmniCritical_22 Start: 13225, Stop: 17397, Start Num: 16

Candidate Starts for OmniCritical_22:

(9, 13189), (Start: 16 @13225 has 58 MA's), (34, 13423), (85, 13663), (87, 13672), (103, 13765), (131, 13912), (134, 13933), (142, 13972), (144, 13975), (158, 14050), (169, 14128), (183, 14215), (184, 14218), (190, 14248), (194, 14281), (200, 14305), (215, 14389), (221, 14419), (225, 14446), (246, 14554), (249, 14575), (251, 14587), (255, 14599), (265, 14653), (302, 14812), (308, 14833), (323, 14941), (342, 15061), (400, 15421), (410, 15472), (412, 15481), (422, 15526), (426, 15547), (469, 15766), (470, 15778), (474, 15787), (493, 15859), (502, 15910), (503, 15913), (510, 15940), (539, 16039), (545, 16057), (558, 16132), (597, 16321), (599, 16333), (623, 16408), (654, 16594), (662, 16714), (670, 16822), (684, 16969), (700, 17089), (703, 17098), (705, 17101), (720, 17200), (726, 17227), (743, 17323), (751, 17386),

Gene: Omnicron_19 Start: 11169, Stop: 15011, Start Num: 14

Candidate Starts for Omnicron_19:

(Start: 14 @11169 has 31 MA's), (39, 11355), (41, 11367), (56, 11433), (57, 11445), (61, 11457), (66, 11475), (67, 11478), (99, 11631), (103, 11652), (110, 11706), (116, 11736), (122, 11754), (127, 11784), (129, 11790), (131, 11799), (134, 11820), (140, 11847), (158, 11937), (169, 12015), (177, 12048), (178, 12060), (182, 12093), (191, 12138), (195, 12171), (204, 12213), (206, 12225), (207, 12228), (234, 12348), (237, 12372), (249, 12438), (252, 12453), (255, 12462), (257, 12468), (265, 12516), (326, 12627), (328, 12636), (336, 12687), (337, 12693), (341, 12708), (344, 12723), (354,

12813), (356, 12846), (381, 12975), (383, 12987), (384, 12996), (388, 13014), (391, 13029), (393, 13041), (400, 13071), (408, 13110), (412, 13131), (413, 13140), (421, 13173), (424, 13185), (426, 13197), (428, 13203), (437, 13263), (438, 13272), (447, 13326), (451, 13338), (482, 13488), (502, 13569), (503, 13572), (518, 13626), (533, 13674), (535, 13683), (538, 13707), (564, 13827), (565, 13830), (584, 13917), (587, 13926), (594, 13986), (599, 14019), (605, 14034), (609, 14040), (622, 14085), (632, 14106), (640, 14133), (657, 14268), (661, 14343), (669, 14451), (676, 14520), (677, 14529), (678, 14532), (679, 14559), (684, 14601), (689, 14631), (696, 14688), (703, 14715), (717, 14775), (727, 14847), (731, 14868), (744, 14940), (747, 14964), (754, 15003),

Gene: Oscar_20 Start: 11083, Stop: 15156, Start Num: 16

Candidate Starts for Oscar_20:

(Start: 16 @11083 has 58 MA's), (26, 11176), (42, 11308), (74, 11446), (89, 11524), (90, 11536), (91, 11542), (98, 11575), (105, 11611), (113, 11668), (115, 11680), (128, 11734), (133, 11764), (152, 11851), (155, 11866), (161, 11902), (176, 11995), (190, 12076), (222, 12259), (224, 12268), (234, 12310), (239, 12352), (250, 12412), (254, 12424), (256, 12430), (259, 12445), (263, 12466), (270, 12499), (300, 12622), (302, 12634), (304, 12640), (308, 12655), (310, 12661), (339, 12745), (347, 12826), (373, 12979), (391, 13075), (393, 13087), (400, 13117), (410, 13168), (414, 13189), (421, 13219), (423, 13225), (428, 13249), (437, 13309), (445, 13360), (454, 13405), (456, 13417), (468, 13471), (475, 13504), (486, 13561), (502, 13639), (503, 13642), (526, 13726), (534, 13753), (539, 13783), (554, 13837), (558, 13876), (599, 14077), (614, 14119), (623, 14152), (626, 14158), (662, 14437), (664, 14494), (684, 14695), (699, 14809), (727, 14986), (738, 15070), (743, 15091),

Gene: Pace1224_16 Start: 11630, Stop: 15664, Start Num: 16

Candidate Starts for Pace1224_16:

(Start: 16 @11630 has 58 MA's), (25, 11723), (29, 11753), (43, 11900), (62, 11984), (72, 12032), (97, 12158), (99, 12170), (103, 12191), (131, 12338), (134, 12359), (139, 12380), (142, 12398), (149, 12422), (151, 12434), (162, 12506), (165, 12521), (169, 12554), (192, 12686), (195, 12710), (200, 12731), (204, 12752), (206, 12764), (210, 12791), (212, 12803), (218, 12833), (225, 12881), (251, 13022), (261, 13064), (265, 13088), (276, 13133), (277, 13136), (302, 13247), (341, 13451), (344, 13466), (351, 13547), (354, 13556), (362, 13616), (383, 13730), (386, 13751), (399, 13811), (405, 13844), (412, 13874), (428, 13946), (432, 13976), (435, 13997), (454, 14102), (455, 14105), (466, 14159), (490, 14258), (493, 14276), (507, 14342), (512, 14357), (519, 14381), (532, 14423), (534, 14432), (549, 14492), (566, 14582), (587, 14678), (593, 14735), (599, 14768), (621, 14828), (630, 14843), (659, 15038), (676, 15245), (682, 15314), (684, 15326), (689, 15356), (697, 15416), (728, 15512), (739, 15572), (743, 15590),

Gene: Padfoot_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for Padfoot_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (265, 13550), (275, 13589), (282, 13622), (302, 13709), (309, 13733), (323, 13817), (338, 13901), (341, 13913), (345, 13934), (400, 14090), (439, 14171), (450, 14219), (453, 14237), (456, 14258), (463, 14294), (475, 14345), (486, 14402), (502, 14480), (504, 14489), (526, 14567), (531, 14582), (539, 14624), (554, 14678), (599, 14918), (623, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (710, 15650), (727, 15770), (738, 15842), (742, 15860), (743, 15866),

Gene: Padpat_21 Start: 12076, Stop: 15909, Start Num: 15

Candidate Starts for Padpat_21:

(Start: 15 @12076 has 162 MA's), (Start: 23 @12145 has 1 MA's), (31, 12232), (41, 12307), (59, 12409), (67, 12436), (84, 12508), (85, 12520), (87, 12529), (99, 12601), (110, 12676), (129, 12760), (131, 12769), (134, 12790), (142, 12829), (158, 12907), (169, 12985), (184, 13075), (196, 13150),

(214, 13243), (216, 13252), (218, 13264), (220, 13273), (265, 13510), (275, 13549), (282, 13582), (302, 13669), (309, 13693), (323, 13777), (338, 13861), (341, 13873), (345, 13894), (400, 14050), (439, 14131), (450, 14179), (453, 14197), (456, 14218), (463, 14254), (475, 14305), (486, 14362), (502, 14440), (504, 14449), (526, 14527), (531, 14542), (539, 14584), (554, 14638), (599, 14878), (623, 14953), (651, 15064), (664, 15283), (666, 15295), (684, 15478), (685, 15487), (696, 15559), (705, 15589), (710, 15610), (727, 15730), (738, 15802), (742, 15820), (743, 15826),

Gene: Paito_16 Start: 11582, Stop: 15610, Start Num: 15

Candidate Starts for Paito_16:

(Start: 15 @11582 has 162 MA's), (34, 11783), (56, 11885), (57, 11897), (62, 11918), (69, 11954), (73, 11969), (84, 12011), (99, 12104), (103, 12125), (129, 12263), (131, 12272), (139, 12314), (142, 12332), (144, 12335), (149, 12356), (151, 12368), (162, 12440), (169, 12488), (195, 12644), (235, 12848), (237, 12869), (247, 12920), (259, 12977), (265, 13013), (282, 13085), (288, 13106), (297, 13145), (302, 13172), (314, 13220), (317, 13241), (323, 13280), (341, 13376), (344, 13391), (360, 13538), (362, 13541), (382, 13649), (438, 13940), (445, 13982), (450, 14000), (455, 14030), (456, 14039), (499, 14246), (500, 14252), (507, 14276), (512, 14291), (517, 14312), (519, 14315), (534, 14366), (549, 14426), (563, 14507), (566, 14516), (570, 14549), (572, 14564), (587, 14612), (593, 14669), (599, 14702), (605, 14717), (629, 14780), (678, 15224), (679, 15251), (684, 15293), (685, 15302), (716, 15401), (728, 15458), (739, 15518), (743, 15536), (745, 15545),

Gene: Paola_19 Start: 12137, Stop: 16246, Start Num: 14

Candidate Starts for Paola_19:

(Start: 14 @12137 has 31 MA's), (43, 12395), (62, 12479), (77, 12545), (87, 12593), (97, 12653), (99, 12665), (103, 12686), (110, 12740), (116, 12770), (131, 12833), (134, 12854), (148, 12911), (158, 12971), (169, 13049), (174, 13073), (180, 13115), (186, 13148), (214, 13307), (218, 13328), (237, 13406), (248, 13469), (251, 13484), (252, 13487), (255, 13496), (257, 13502), (259, 13514), (265, 13550), (269, 13568), (295, 13670), (302, 13709), (331, 13862), (339, 13904), (344, 13928), (354, 14018), (356, 14051), (369, 14117), (383, 14192), (384, 14201), (388, 14219), (393, 14246), (409, 14324), (428, 14408), (448, 14531), (460, 14597), (481, 14699), (502, 14792), (510, 14822), (518, 14849), (521, 14855), (534, 14906), (537, 14927), (541, 14942), (542, 14948), (558, 15032), (568, 15062), (570, 15080), (581, 15119), (591, 15179), (598, 15212), (603, 15233), (611, 15257), (618, 15290), (644, 15374), (653, 15446), (676, 15755), (680, 15809), (682, 15824), (684, 15836), (689, 15866), (722, 16052), (727, 16076), (729, 16088), (744, 16175), (747, 16199),

Gene: Patt_22 Start: 13064, Stop: 17230, Start Num: 16

Candidate Starts for Patt_22:

(9, 13028), (Start: 16 @13064 has 58 MA's), (34, 13262), (84, 13490), (85, 13502), (87, 13511), (90, 13541), (103, 13604), (131, 13751), (134, 13772), (142, 13811), (144, 13814), (158, 13889), (169, 13967), (183, 14054), (184, 14057), (190, 14087), (194, 14120), (200, 14144), (215, 14228), (221, 14258), (225, 14285), (246, 14393), (249, 14414), (251, 14426), (255, 14438), (265, 14492), (302, 14651), (308, 14672), (323, 14780), (342, 14900), (378, 15149), (400, 15260), (410, 15311), (412, 15320), (422, 15365), (426, 15386), (446, 15485), (450, 15500), (451, 15506), (464, 15575), (468, 15596), (469, 15605), (470, 15617), (474, 15626), (493, 15698), (502, 15749), (503, 15752), (510, 15779), (539, 15878), (545, 15896), (558, 15971), (597, 16160), (599, 16172), (623, 16247), (654, 16427), (662, 16547), (670, 16655), (675, 16715), (684, 16802), (689, 16832), (700, 16922), (703, 16931), (705, 16934), (720, 17033), (726, 17060), (743, 17156), (751, 17219),

Gene: Peanam_21 Start: 11128, Stop: 15282, Start Num: 16

Candidate Starts for Peanam_21:

(9, 11086), (Start: 16 @11128 has 58 MA's), (26, 11221), (47, 11380), (53, 11407), (75, 11497), (76, 11500), (91, 11587), (109, 11695), (125, 11764), (129, 11782), (146, 11866), (152, 11908), (155, 11923), (156, 11932), (161, 11959), (169, 12022), (178, 12064), (190, 12133), (201, 12196), (202, 12205), (222, 12319), (223, 12325), (232, 12361), (234, 12370), (236, 12382), (237, 12394), (239,

12412), (250, 12472), (254, 12484), (256, 12490), (259, 12505), (262, 12523), (263, 12526), (266, 12544), (270, 12559), (279, 12598), (295, 12655), (296, 12664), (302, 12694), (308, 12715), (315, 12745), (319, 12778), (333, 12862), (338, 12892), (341, 12904), (353, 13006), (365, 13084), (373, 13129), (377, 13153), (387, 13207), (388, 13210), (391, 13225), (400, 13267), (404, 13294), (406, 13303), (410, 13318), (411, 13324), (412, 13327), (438, 13468), (444, 13504), (445, 13510), (450, 13528), (454, 13555), (456, 13567), (468, 13621), (475, 13654), (487, 13714), (502, 13795), (503, 13798), (526, 13882), (531, 13897), (558, 14032), (574, 14098), (599, 14233), (662, 14584), (684, 14839), (685, 14848), (691, 14914), (727, 15109), (731, 15130), (738, 15181), (742, 15199), (743, 15205), (748, 15244),

Gene: Peeb_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Peeb_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: Peel_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for Peel_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (265, 13550), (275, 13589), (282, 13622), (302, 13709), (309, 13733), (323, 13817), (338, 13901), (341, 13913), (345, 13934), (400, 14090), (439, 14171), (450, 14219), (453, 14237), (456, 14258), (463, 14294), (475, 14345), (486, 14402), (502, 14480), (504, 14489), (526, 14567), (531, 14582), (539, 14624), (554, 14678), (599, 14918), (623, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (710, 15650), (727, 15770), (738, 15842), (742, 15860), (743, 15866),

Gene: Periodt_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Periodt_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: Pharb_20 Start: 12014, Stop: 16198, Start Num: 15

Candidate Starts for Pharb_20:

(8, 11966), (Start: 15 @12014 has 162 MA's), (Start: 23 @12083 has 1 MA's), (Start: 24 @12104 has 1 MA's), (26, 12110), (31, 12170), (62, 12353), (65, 12365), (67, 12374), (85, 12458), (97, 12527), (99, 12539), (103, 12560), (110, 12614), (116, 12644), (131, 12707), (134, 12728), (142, 12767), (158, 12845), (169, 12923), (174, 12947), (204, 13121), (211, 13169), (214, 13181), (218, 13202), (220, 13211), (242, 13331), (257, 13400), (260, 13415), (265, 13448), (270, 13469), (272, 13478), (279,

13508), (282, 13520), (293, 13562), (294, 13565), (295, 13568), (302, 13607), (318, 13685), (329, 13763), (334, 13796), (340, 13826), (347, 13904), (360, 13994), (368, 14024), (373, 14057), (390, 14147), (400, 14195), (428, 14327), (432, 14357), (445, 14438), (453, 14474), (463, 14531), (468, 14549), (475, 14582), (487, 14642), (502, 14723), (514, 14762), (524, 14795), (526, 14810), (529, 14816), (531, 14825), (539, 14867), (554, 14921), (558, 14960), (578, 15038), (599, 15161), (623, 15236), (655, 15425), (672, 15665), (676, 15695), (678, 15707), (685, 15785), (708, 15914), (721, 16001), (722, 16004), (729, 16037), (736, 16082), (743, 16118), (746, 16133), (747, 16145), (751, 16181),

Gene: PhelpsODU_20 Start: 11123, Stop: 15124, Start Num: 16

Candidate Starts for PhelpsODU_20:

(Start: 16 @11123 has 58 MA's), (26, 11216), (37, 11321), (47, 11375), (50, 11393), (55, 11411), (60, 11435), (63, 11441), (69, 11468), (70, 11474), (74, 11486), (83, 11519), (98, 11615), (101, 11633), (102, 11636), (125, 11750), (128, 11765), (152, 11882), (166, 11978), (173, 12017), (178, 12038), (179, 12047), (190, 12107), (222, 12290), (223, 12296), (224, 12299), (236, 12353), (239, 12383), (250, 12443), (254, 12455), (256, 12461), (259, 12476), (263, 12497), (266, 12515), (300, 12653), (302, 12665), (308, 12686), (316, 12725), (340, 12779), (341, 12785), (353, 12887), (360, 12947), (373, 13010), (388, 13091), (391, 13106), (392, 13109), (400, 13148), (406, 13184), (410, 13199), (411, 13205), (417, 13232), (423, 13256), (435, 13331), (445, 13391), (456, 13448), (463, 13484), (475, 13535), (502, 13676), (503, 13679), (526, 13763), (534, 13790), (554, 13874), (558, 13913), (599, 14114), (623, 14189), (659, 14408), (665, 14522), (676, 14624), (677, 14633), (684, 14705), (696, 14789), (705, 14819), (710, 14840), (727, 14957), (738, 15032), (746, 15071), (747, 15083),

Gene: Phish_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Phish_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: Phrank_20 Start: 11071, Stop: 15072, Start Num: 16

Candidate Starts for Phrank_20:

(Start: 16 @11071 has 58 MA's), (26, 11164), (37, 11269), (42, 11296), (47, 11323), (50, 11341), (55, 11359), (60, 11383), (63, 11389), (69, 11416), (70, 11422), (80, 11458), (83, 11467), (86, 11491), (98, 11563), (101, 11581), (102, 11584), (128, 11713), (152, 11830), (166, 11926), (173, 11965), (179, 11995), (190, 12055), (222, 12238), (223, 12244), (224, 12247), (236, 12301), (239, 12331), (250, 12391), (254, 12403), (256, 12409), (259, 12424), (263, 12445), (266, 12463), (300, 12601), (302, 12613), (308, 12634), (316, 12673), (340, 12727), (341, 12733), (360, 12895), (373, 12958), (388, 13039), (391, 13054), (400, 13096), (410, 13147), (414, 13168), (421, 13198), (423, 13204), (428, 13228), (435, 13279), (445, 13339), (456, 13396), (463, 13432), (468, 13450), (475, 13483), (502, 13624), (503, 13627), (526, 13711), (534, 13738), (554, 13822), (599, 14062), (623, 14137), (665, 14470), (676, 14572), (677, 14581), (684, 14653), (696, 14737), (705, 14767), (710, 14788), (727, 14905), (738, 14980), (746, 15019), (747, 15031),

Gene: Phreak_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Phreak_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250),

(162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: Piatt_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for Piatt_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (265, 13550), (275, 13589), (282, 13622), (302, 13709), (309, 13733), (323, 13817), (338, 13901), (341, 13913), (345, 13934), (400, 14090), (439, 14171), (450, 14219), (453, 14237), (456, 14258), (463, 14294), (475, 14345), (486, 14402), (502, 14480), (504, 14489), (526, 14567), (531, 14582), (539, 14624), (554, 14678), (599, 14918), (623, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (710, 15650), (727, 15770), (738, 15842), (742, 15860), (743, 15866),

Gene: PinkYoshi_16 Start: 11455, Stop: 15468, Start Num: 15

Candidate Starts for PinkYoshi_16:

(Start: 15 @11455 has 162 MA's), (34, 11656), (57, 11770), (67, 11812), (73, 11842), (99, 11977), (100, 11989), (103, 11998), (139, 12187), (142, 12205), (144, 12208), (149, 12229), (151, 12241), (162, 12313), (169, 12361), (192, 12493), (195, 12517), (210, 12598), (235, 12721), (248, 12805), (258, 12841), (265, 12886), (266, 12892), (293, 13000), (298, 13024), (302, 13045), (344, 13264), (362, 13414), (378, 13501), (399, 13609), (428, 13744), (445, 13855), (450, 13873), (455, 13903), (500, 14125), (507, 14149), (512, 14164), (517, 14185), (526, 14212), (534, 14239), (549, 14299), (566, 14389), (570, 14422), (587, 14485), (593, 14542), (599, 14575), (602, 14584), (678, 15088), (679, 15115), (682, 15145), (684, 15157), (685, 15166), (707, 15235), (728, 15316), (739, 15376), (743, 15394), (745, 15403),

Gene: Pinnie_17 Start: 12158, Stop: 16180, Start Num: 16

Candidate Starts for Pinnie_17:

(Start: 16 @12158 has 58 MA's), (21, 12203), (35, 12359), (37, 12362), (50, 12434), (55, 12452), (57, 12464), (69, 12509), (74, 12527), (91, 12623), (93, 12629), (96, 12644), (98, 12656), (101, 12674), (107, 12716), (108, 12719), (116, 12755), (118, 12767), (125, 12791), (126, 12797), (131, 12818), (146, 12893), (152, 12935), (155, 12950), (161, 12986), (162, 13001), (169, 13049), (170, 13058), (190, 13160), (215, 13301), (222, 13343), (229, 13373), (231, 13379), (232, 13385), (239, 13436), (254, 13508), (256, 13514), (259, 13529), (262, 13547), (263, 13550), (277, 13610), (289, 13655), (298, 13697), (302, 13718), (309, 13742), (312, 13754), (313, 13757), (321, 13814), (333, 13886), (341, 13928), (353, 14030), (363, 14093), (383, 14207), (386, 14228), (399, 14288), (410, 14342), (411, 14348), (423, 14399), (435, 14474), (442, 14516), (454, 14579), (489, 14744), (506, 14828), (508, 14843), (515, 14861), (516, 14867), (529, 14909), (531, 14918), (540, 14963), (544, 14978), (559, 15059), (562, 15068), (583, 15161), (589, 15218), (597, 15251), (615, 15305), (620, 15326), (678, 15785), (679, 15812), (681, 15839), (684, 15854), (685, 15863), (696, 15950), (723, 16088), (725, 16106), (733, 16145),

Gene: Pixie_20 Start: 11949, Stop: 16127, Start Num: 15

Candidate Starts for Pixie_20:

(Start: 15 @11949 has 162 MA's), (Start: 23 @12018 has 1 MA's), (Start: 24 @12039 has 1 MA's), (26, 12045), (31, 12105), (52, 12243), (62, 12288), (67, 12309), (97, 12462), (99, 12474), (103, 12495), (110, 12549), (116, 12579), (123, 12600), (129, 12633), (131, 12642), (134, 12663), (142, 12702),

(158, 12780), (164, 12822), (169, 12858), (174, 12882), (204, 13056), (210, 13095), (214, 13116), (218, 13137), (220, 13146), (250, 13314), (257, 13335), (261, 13359), (265, 13383), (270, 13404), (275, 13422), (282, 13455), (293, 13497), (294, 13500), (295, 13503), (302, 13542), (305, 13551), (318, 13620), (334, 13731), (340, 13761), (368, 13959), (373, 13992), (390, 14082), (393, 14100), (400, 14130), (404, 14157), (432, 14292), (445, 14373), (453, 14409), (463, 14466), (468, 14484), (472, 14505), (475, 14517), (487, 14577), (502, 14658), (514, 14697), (524, 14730), (526, 14745), (529, 14751), (531, 14760), (539, 14802), (558, 14895), (578, 14973), (599, 15096), (623, 15171), (676, 15636), (678, 15648), (684, 15717), (685, 15726), (719, 15918), (721, 15936), (729, 15972), (731, 15981), (742, 16047), (743, 16053), (746, 16068), (747, 16080),

Gene: Plagueis_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Plagueis_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: Pokerus_20 Start: 12033, Stop: 15866, Start Num: 15

Candidate Starts for Pokerus_20:

(Start: 15 @12033 has 162 MA's), (Start: 23 @12102 has 1 MA's), (31, 12189), (59, 12366), (67, 12393), (84, 12465), (85, 12477), (87, 12486), (99, 12558), (110, 12633), (129, 12717), (131, 12726), (134, 12747), (142, 12786), (158, 12864), (169, 12942), (184, 13032), (196, 13107), (214, 13200), (216, 13209), (218, 13221), (220, 13230), (265, 13467), (275, 13506), (282, 13539), (302, 13626), (309, 13650), (323, 13734), (338, 13818), (341, 13830), (345, 13851), (400, 14007), (439, 14088), (450, 14136), (453, 14154), (456, 14175), (463, 14211), (475, 14262), (486, 14319), (502, 14397), (504, 14406), (526, 14484), (531, 14499), (539, 14541), (554, 14595), (599, 14835), (623, 14910), (651, 15021), (664, 15240), (666, 15252), (684, 15435), (685, 15444), (696, 15516), (705, 15546), (710, 15567), (727, 15687), (738, 15759), (742, 15777), (743, 15783),

Gene: Prithvi_21 Start: 12047, Stop: 15883, Start Num: 15

Candidate Starts for Prithvi_21:

(Start: 15 @12047 has 162 MA's), (Start: 23 @12116 has 1 MA's), (31, 12203), (59, 12383), (67, 12410), (87, 12503), (97, 12563), (99, 12575), (110, 12650), (123, 12701), (131, 12743), (134, 12764), (142, 12803), (158, 12881), (169, 12959), (174, 12983), (196, 13124), (214, 13217), (216, 13226), (218, 13238), (220, 13247), (265, 13484), (271, 13508), (275, 13523), (282, 13556), (302, 13643), (309, 13667), (323, 13751), (338, 13835), (341, 13847), (345, 13868), (353, 13949), (400, 14024), (439, 14105), (450, 14153), (453, 14171), (455, 14183), (456, 14192), (463, 14228), (475, 14279), (486, 14336), (502, 14414), (504, 14423), (526, 14501), (531, 14516), (539, 14558), (554, 14612), (599, 14852), (623, 14927), (651, 15038), (664, 15257), (666, 15269), (676, 15371), (684, 15452), (685, 15461), (696, 15533), (705, 15563), (710, 15584), (727, 15704), (738, 15776), (742, 15794), (743, 15800),

Gene: Psycho_19 Start: 12089, Stop: 16222, Start Num: 12

Candidate Starts for Psycho_19:

(Start: 12 @12089 has 1 MA's), (Start: 14 @12110 has 31 MA's), (Start: 24 @12203 has 1 MA's), (32, 12281), (33, 12305), (43, 12365), (62, 12449), (87, 12563), (97, 12623), (99, 12635), (103, 12656), (110, 12710), (122, 12758), (131, 12803), (134, 12824), (158, 12941), (169, 13019), (174, 13043), (180, 13085), (184, 13109), (196, 13184), (214, 13277), (220, 13307), (252, 13481), (261, 13520),

(265, 13544), (270, 13565), (284, 13625), (302, 13703), (305, 13712), (320, 13790), (331, 13856), (339, 13898), (341, 13907), (348, 13991), (354, 14012), (356, 14045), (369, 14111), (373, 14132), (383, 14186), (384, 14195), (388, 14213), (393, 14240), (400, 14270), (406, 14306), (426, 14396), (428, 14402), (429, 14420), (448, 14525), (460, 14591), (502, 14786), (510, 14816), (521, 14849), (534, 14900), (537, 14921), (541, 14936), (542, 14942), (558, 15026), (570, 15074), (581, 15113), (591, 15173), (598, 15206), (603, 15227), (611, 15251), (618, 15281), (644, 15347), (653, 15419), (676, 15734), (677, 15743), (678, 15746), (679, 15773), (680, 15788), (682, 15803), (684, 15815), (689, 15845), (696, 15899), (700, 15917), (717, 15986), (722, 16034), (727, 16058), (729, 16070), (731, 16079), (744, 16151), (747, 16175), (753, 16214),

Gene: QuincyRose_20 Start: 12096, Stop: 15929, Start Num: 15

Candidate Starts for QuincyRose_20:

(Start: 15 @12096 has 162 MA's), (Start: 23 @12165 has 1 MA's), (31, 12252), (59, 12429), (67, 12456), (85, 12540), (87, 12549), (99, 12621), (110, 12696), (129, 12780), (131, 12789), (134, 12810), (142, 12849), (158, 12927), (169, 13005), (184, 13095), (196, 13170), (214, 13263), (218, 13284), (220, 13293), (247, 13437), (265, 13530), (275, 13569), (282, 13602), (302, 13689), (309, 13713), (323, 13797), (338, 13881), (341, 13893), (345, 13914), (400, 14070), (439, 14151), (450, 14199), (453, 14217), (456, 14238), (463, 14274), (475, 14325), (486, 14382), (502, 14460), (504, 14469), (526, 14547), (539, 14604), (554, 14658), (599, 14898), (623, 14973), (651, 15084), (664, 15303), (666, 15315), (684, 15498), (685, 15507), (696, 15579), (705, 15609), (710, 15630), (727, 15750), (738, 15822), (742, 15840), (743, 15846),

Gene: Rabbs_16 Start: 11454, Stop: 15479, Start Num: 15

Candidate Starts for Rabbs_16:

(Start: 15 @11454 has 162 MA's), (19, 11478), (34, 11655), (57, 11769), (67, 11811), (70, 11832), (73, 11841), (99, 11976), (103, 11997), (131, 12144), (139, 12186), (142, 12204), (144, 12207), (149, 12228), (151, 12240), (169, 12360), (180, 12426), (192, 12492), (195, 12516), (210, 12597), (235, 12720), (237, 12741), (255, 12831), (258, 12840), (266, 12891), (275, 12924), (278, 12942), (293, 12999), (302, 13044), (320, 13131), (323, 13152), (341, 13248), (344, 13263), (354, 13353), (360, 13410), (362, 13413), (392, 13572), (393, 13581), (399, 13608), (428, 13743), (450, 13872), (455, 13902), (500, 14124), (507, 14148), (512, 14163), (517, 14184), (534, 14238), (549, 14298), (566, 14388), (570, 14421), (572, 14436), (587, 14484), (593, 14541), (599, 14574), (668, 15006), (678, 15096), (679, 15123), (684, 15165), (685, 15174), (707, 15243), (716, 15270), (728, 15327), (739, 15387), (743, 15405), (745, 15414),

Gene: Ramen_21 Start: 12079, Stop: 15915, Start Num: 15

Candidate Starts for Ramen_21:

(Start: 15 @12079 has 162 MA's), (Start: 23 @12148 has 1 MA's), (31, 12235), (59, 12412), (67, 12439), (84, 12511), (85, 12523), (87, 12532), (99, 12604), (110, 12679), (129, 12763), (131, 12772), (134, 12793), (142, 12832), (158, 12910), (169, 12988), (184, 13078), (196, 13153), (214, 13246), (216, 13255), (218, 13267), (220, 13276), (271, 13537), (275, 13552), (282, 13585), (302, 13672), (309, 13696), (323, 13780), (338, 13864), (341, 13876), (345, 13897), (400, 14053), (439, 14134), (450, 14182), (453, 14200), (456, 14221), (463, 14257), (475, 14308), (486, 14365), (502, 14443), (504, 14452), (526, 14530), (539, 14587), (554, 14641), (599, 14881), (623, 14956), (651, 15067), (664, 15286), (666, 15298), (684, 15484), (685, 15493), (696, 15565), (705, 15595), (710, 15616), (727, 15736), (738, 15808), (742, 15826), (743, 15832),

Gene: Rando14_19 Start: 11071, Stop: 14910, Start Num: 14

Candidate Starts for Rando14_19:

(Start: 14 @11071 has 31 MA's), (26, 11170), (39, 11257), (41, 11269), (56, 11335), (57, 11347), (61, 11359), (66, 11377), (99, 11533), (103, 11554), (116, 11638), (122, 11656), (127, 11686), (129, 11692), (131, 11701), (134, 11722), (140, 11749), (141, 11755), (148, 11779), (158, 11839), (169, 11917), (177, 11950), (178, 11962), (182, 11995), (195, 12073), (199, 12091), (204, 12115), (206,

12127), (207, 12130), (234, 12250), (237, 12274), (248, 12337), (249, 12340), (252, 12355), (265, 12418), (307, 12466), (331, 12559), (334, 12574), (354, 12715), (356, 12748), (381, 12877), (383, 12889), (384, 12898), (387, 12913), (391, 12931), (393, 12943), (400, 12973), (408, 13012), (411, 13030), (412, 13033), (426, 13099), (428, 13105), (432, 13135), (437, 13165), (444, 13210), (447, 13228), (451, 13240), (478, 13375), (482, 13390), (502, 13471), (503, 13474), (518, 13528), (533, 13576), (535, 13585), (538, 13609), (543, 13630), (564, 13729), (565, 13732), (577, 13795), (587, 13828), (594, 13888), (599, 13921), (605, 13936), (609, 13942), (622, 13987), (632, 14008), (640, 14035), (657, 14170), (661, 14245), (668, 14335), (676, 14422), (677, 14431), (678, 14434), (679, 14461), (682, 14491), (684, 14503), (689, 14533), (696, 14587), (700, 14605), (717, 14674), (727, 14746), (731, 14767), (744, 14839), (747, 14863), (754, 14902),

Gene: Rapunzel97_21 Start: 12080, Stop: 15916, Start Num: 15

Candidate Starts for Rapunzel97_21:

(Start: 15 @12080 has 162 MA's), (Start: 23 @12149 has 1 MA's), (31, 12236), (59, 12413), (67, 12440), (84, 12512), (85, 12524), (87, 12533), (99, 12605), (110, 12680), (129, 12764), (131, 12773), (134, 12794), (142, 12833), (158, 12911), (169, 12989), (184, 13079), (196, 13154), (214, 13247), (216, 13256), (218, 13268), (220, 13277), (271, 13538), (275, 13553), (282, 13586), (302, 13673), (309, 13697), (323, 13781), (338, 13865), (341, 13877), (345, 13898), (400, 14054), (439, 14135), (450, 14183), (453, 14201), (456, 14222), (463, 14258), (475, 14309), (486, 14366), (502, 14444), (504, 14453), (526, 14531), (539, 14588), (554, 14642), (599, 14882), (623, 14957), (651, 15068), (664, 15287), (666, 15299), (684, 15485), (685, 15494), (696, 15566), (705, 15596), (710, 15617), (727, 15737), (738, 15809), (742, 15827), (743, 15833),

Gene: Remy19_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Remy19_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: Renaissance_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Renaissance_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: Reptar3000_22 Start: 13066, Stop: 17232, Start Num: 16

Candidate Starts for Reptar3000_22:

(9, 13030), (Start: 16 @13066 has 58 MA's), (34, 13264), (84, 13492), (85, 13504), (87, 13513), (90, 13543), (103, 13606), (131, 13753), (134, 13774), (142, 13813), (144, 13816), (158, 13891), (169, 13969), (183, 14056), (184, 14059), (190, 14089), (194, 14122), (200, 14146), (215, 14230), (221, 14260), (225, 14287), (246, 14395), (249, 14416), (251, 14428), (255, 14440), (265, 14494), (302,

14653), (308, 14674), (323, 14782), (342, 14902), (378, 15151), (400, 15262), (410, 15313), (412, 15322), (422, 15367), (426, 15388), (446, 15487), (450, 15502), (451, 15508), (464, 15577), (468, 15598), (469, 15607), (470, 15619), (474, 15628), (493, 15700), (502, 15751), (503, 15754), (510, 15781), (539, 15880), (545, 15898), (558, 15973), (597, 16162), (599, 16174), (623, 16249), (654, 16429), (662, 16549), (670, 16657), (675, 16717), (684, 16804), (689, 16834), (700, 16924), (703, 16933), (705, 16936), (720, 17035), (726, 17062), (743, 17158), (751, 17221),

Gene: Richo_21 Start: 11128, Stop: 15282, Start Num: 16

Candidate Starts for Richo_21:

(9, 11086), (Start: 16 @11128 has 58 MA's), (26, 11221), (47, 11380), (53, 11407), (75, 11497), (76, 11500), (91, 11587), (109, 11695), (125, 11764), (129, 11782), (146, 11866), (152, 11908), (155, 11923), (156, 11932), (161, 11959), (169, 12022), (178, 12064), (190, 12133), (201, 12196), (202, 12205), (222, 12319), (223, 12325), (232, 12361), (234, 12370), (236, 12382), (237, 12394), (239, 12412), (250, 12472), (254, 12484), (256, 12490), (259, 12505), (262, 12523), (263, 12526), (266, 12544), (270, 12559), (279, 12598), (295, 12655), (296, 12664), (302, 12694), (308, 12715), (315, 12745), (319, 12778), (333, 12862), (338, 12892), (341, 12904), (353, 13006), (365, 13084), (373, 13129), (377, 13153), (387, 13207), (388, 13210), (391, 13225), (400, 13267), (404, 13294), (406, 13303), (410, 13318), (411, 13324), (412, 13327), (438, 13468), (444, 13504), (445, 13510), (450, 13528), (454, 13555), (456, 13567), (468, 13621), (475, 13654), (487, 13714), (502, 13795), (503, 13798), (526, 13882), (531, 13897), (558, 14032), (574, 14098), (599, 14233), (662, 14584), (684, 14839), (685, 14848), (691, 14914), (727, 15109), (731, 15130), (738, 15181), (742, 15199), (743, 15205), (748, 15244),

Gene: Rosmarinus_21 Start: 12104, Stop: 15937, Start Num: 15

Candidate Starts for Rosmarinus_21:

(Start: 15 @12104 has 162 MA's), (Start: 23 @12173 has 1 MA's), (31, 12260), (41, 12335), (59, 12437), (67, 12464), (84, 12536), (85, 12548), (87, 12557), (99, 12629), (110, 12704), (129, 12788), (131, 12797), (134, 12818), (142, 12857), (151, 12893), (158, 12935), (169, 13013), (184, 13103), (196, 13178), (214, 13271), (216, 13280), (218, 13292), (220, 13301), (265, 13538), (275, 13577), (282, 13610), (302, 13697), (309, 13721), (323, 13805), (338, 13889), (341, 13901), (345, 13922), (400, 14078), (439, 14159), (450, 14207), (453, 14225), (456, 14246), (463, 14282), (475, 14333), (486, 14390), (502, 14468), (504, 14477), (526, 14555), (531, 14570), (539, 14612), (554, 14666), (599, 14906), (623, 14981), (651, 15092), (664, 15311), (666, 15323), (684, 15506), (685, 15515), (696, 15587), (705, 15617), (710, 15638), (727, 15758), (738, 15830), (742, 15848), (743, 15854),

Gene: Ruthiejr_21 Start: 12924, Stop: 17120, Start Num: 16

Candidate Starts for Ruthiejr_21:

(Start: 16 @12924 has 58 MA's), (34, 13122), (80, 13335), (85, 13362), (87, 13371), (99, 13443), (103, 13464), (129, 13602), (131, 13611), (134, 13632), (142, 13671), (156, 13740), (158, 13749), (169, 13827), (171, 13839), (184, 13917), (190, 13947), (194, 13980), (195, 13983), (200, 14004), (225, 14145), (227, 14154), (251, 14286), (255, 14298), (265, 14352), (275, 14391), (282, 14424), (302, 14511), (308, 14532), (332, 14709), (342, 14760), (360, 14919), (400, 15120), (410, 15171), (412, 15180), (422, 15225), (426, 15246), (430, 15252), (451, 15366), (469, 15465), (470, 15477), (474, 15486), (493, 15558), (498, 15591), (502, 15609), (503, 15612), (510, 15639), (539, 15738), (545, 15756), (558, 15831), (597, 16020), (599, 16032), (623, 16107), (641, 16176), (654, 16308), (660, 16422), (684, 16689), (687, 16707), (703, 16818), (705, 16821), (720, 16920), (726, 16947), (727, 16950), (743, 17046), (751, 17109),

Gene: SamScheppers_20 Start: 12840, Stop: 17027, Start Num: 16

Candidate Starts for SamScheppers_20:

(9, 12804), (Start: 16 @12840 has 58 MA's), (34, 13038), (85, 13278), (87, 13287), (103, 13380), (131, 13527), (134, 13548), (142, 13587), (144, 13590), (158, 13665), (169, 13743), (183, 13830), (184, 13833), (190, 13863), (194, 13896), (200, 13920), (215, 14004), (221, 14034), (225, 14061), (246,

14169), (249, 14190), (251, 14202), (255, 14214), (265, 14268), (302, 14427), (308, 14448), (323, 14556), (342, 14676), (400, 15036), (410, 15087), (412, 15096), (422, 15141), (426, 15162), (469, 15381), (470, 15393), (474, 15402), (493, 15474), (502, 15525), (503, 15528), (510, 15555), (539, 15654), (545, 15672), (558, 15747), (597, 15936), (599, 15948), (623, 16023), (654, 16224), (662, 16344), (670, 16452), (684, 16599), (700, 16719), (703, 16728), (705, 16731), (720, 16830), (726, 16857), (743, 16953), (751, 17016),

Gene: SamuelLPlaqson_21 Start: 12024, Stop: 15863, Start Num: 15

Candidate Starts for SamuelLPlaqson_21:

(Start: 15 @12024 has 162 MA's), (Start: 23 @12093 has 1 MA's), (31, 12180), (59, 12360), (67, 12387), (85, 12471), (87, 12480), (97, 12540), (99, 12552), (110, 12627), (123, 12678), (131, 12720), (134, 12741), (142, 12780), (158, 12858), (169, 12936), (174, 12960), (196, 13101), (214, 13194), (218, 13215), (220, 13224), (265, 13461), (271, 13485), (275, 13500), (282, 13533), (302, 13620), (320, 13707), (323, 13728), (338, 13812), (341, 13824), (345, 13845), (400, 14001), (439, 14082), (453, 14148), (456, 14169), (463, 14205), (475, 14256), (479, 14274), (486, 14313), (502, 14391), (526, 14478), (531, 14493), (539, 14535), (554, 14589), (599, 14829), (623, 14904), (651, 15015), (653, 15036), (654, 15057), (662, 15177), (676, 15351), (684, 15432), (685, 15441), (696, 15513), (705, 15543), (710, 15564), (727, 15684), (738, 15756), (742, 15774), (743, 15780),

Gene: Scarlett_20 Start: 11082, Stop: 15158, Start Num: 16

Candidate Starts for Scarlett_20:

(Start: 16 @11082 has 58 MA's), (26, 11175), (42, 11307), (74, 11445), (89, 11523), (90, 11535), (91, 11541), (98, 11574), (105, 11610), (113, 11667), (115, 11679), (128, 11733), (133, 11763), (152, 11850), (155, 11865), (161, 11901), (176, 11994), (190, 12075), (222, 12258), (224, 12267), (234, 12309), (239, 12351), (250, 12411), (254, 12423), (256, 12429), (259, 12444), (263, 12465), (270, 12498), (300, 12621), (302, 12633), (304, 12639), (308, 12654), (310, 12660), (339, 12744), (347, 12825), (373, 12978), (391, 13074), (393, 13086), (400, 13116), (410, 13167), (414, 13188), (421, 13218), (423, 13224), (428, 13248), (437, 13308), (445, 13359), (454, 13404), (456, 13416), (468, 13470), (475, 13503), (486, 13560), (502, 13638), (503, 13641), (526, 13725), (534, 13752), (539, 13782), (554, 13836), (558, 13875), (599, 14076), (614, 14118), (623, 14151), (662, 14439), (664, 14496), (684, 14697), (699, 14811), (727, 14988), (738, 15072), (743, 15093),

Gene: Schiebel_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Schiebel_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: SgtBeansprout_17 Start: 11327, Stop: 15460, Start Num: 15

Candidate Starts for SgtBeansprout_17:

(10, 11288), (Start: 15 @11327 has 162 MA's), (Start: 23 @11396 has 1 MA's), (31, 11483), (41, 11561), (62, 11669), (67, 11690), (74, 11723), (99, 11855), (101, 11870), (103, 11876), (110, 11930), (116, 11960), (131, 12023), (134, 12044), (142, 12083), (158, 12161), (169, 12239), (174, 12263), (214, 12497), (230, 12578), (240, 12638), (250, 12695), (260, 12731), (265, 12764), (271, 12788), (287, 12854), (290, 12863), (302, 12923), (323, 13031), (331, 13076), (354, 13232), (371, 13343), (373, 13352), (375, 13364), (384, 13415), (388, 13433), (393, 13460), (400, 13490), (419, 13583), (428, 13622), (456, 13790), (468, 13844), (475, 13877), (484, 13922), (502, 14003), (503, 14006),

(526, 14090), (529, 14096), (531, 14105), (539, 14147), (552, 14183), (554, 14201), (558, 14240), (571, 14300), (599, 14441), (618, 14501), (623, 14516), (666, 14858), (684, 15047), (685, 15056), (694, 15119), (743, 15395),

Gene: ShaboiShabazz_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for ShaboiShabazz_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: Shadow1_19 Start: 10962, Stop: 14963, Start Num: 16

Candidate Starts for Shadow1_19:

(Start: 16 @10962 has 58 MA's), (26, 11055), (37, 11160), (47, 11214), (50, 11232), (55, 11250), (63, 11280), (69, 11307), (70, 11313), (98, 11454), (101, 11472), (102, 11475), (125, 11589), (128, 11604), (152, 11721), (155, 11736), (166, 11817), (179, 11886), (190, 11946), (222, 12129), (223, 12135), (236, 12192), (250, 12282), (254, 12294), (256, 12300), (259, 12315), (263, 12336), (266, 12354), (285, 12429), (300, 12492), (302, 12504), (308, 12525), (316, 12564), (337, 12609), (341, 12624), (360, 12786), (378, 12876), (392, 12948), (400, 12987), (410, 13038), (414, 13059), (421, 13089), (423, 13095), (428, 13119), (435, 13170), (453, 13266), (456, 13287), (463, 13323), (475, 13374), (502, 13515), (526, 13602), (534, 13629), (554, 13713), (599, 13953), (623, 14028), (665, 14361), (676, 14463), (677, 14472), (684, 14544), (685, 14553), (696, 14628), (705, 14658), (710, 14679), (727, 14796), (735, 14847), (738, 14871), (746, 14910), (747, 14922),

Gene: Shaobing_21 Start: 11128, Stop: 15282, Start Num: 16

Candidate Starts for Shaobing_21:

(9, 11086), (Start: 16 @11128 has 58 MA's), (26, 11221), (47, 11380), (53, 11407), (75, 11497), (76, 11500), (91, 11587), (109, 11695), (125, 11764), (129, 11782), (146, 11866), (152, 11908), (155, 11923), (156, 11932), (161, 11959), (169, 12022), (178, 12064), (190, 12133), (201, 12196), (202, 12205), (222, 12319), (223, 12325), (232, 12361), (234, 12370), (236, 12382), (237, 12394), (239, 12412), (250, 12472), (254, 12484), (256, 12490), (259, 12505), (262, 12523), (263, 12526), (266, 12544), (270, 12559), (279, 12598), (295, 12655), (296, 12664), (301, 12688), (302, 12694), (308, 12715), (315, 12745), (319, 12778), (333, 12862), (338, 12892), (341, 12904), (353, 13006), (365, 13084), (373, 13129), (377, 13153), (387, 13207), (388, 13210), (391, 13225), (400, 13267), (404, 13294), (406, 13303), (410, 13318), (411, 13324), (412, 13327), (438, 13468), (444, 13504), (445, 13510), (450, 13528), (454, 13555), (456, 13567), (468, 13621), (475, 13654), (487, 13714), (502, 13795), (503, 13798), (526, 13882), (531, 13897), (558, 14032), (574, 14098), (599, 14233), (662, 14584), (684, 14839), (685, 14848), (691, 14914), (727, 15109), (731, 15130), (738, 15181), (742, 15199), (743, 15205), (748, 15244),

Gene: ShedlockHolmes_20 Start: 12197, Stop: 16345, Start Num: 15

Candidate Starts for ShedlockHolmes_20:

(Start: 15 @12197 has 162 MA's), (Start: 23 @12266 has 1 MA's), (Start: 24 @12287 has 1 MA's), (26, 12293), (31, 12353), (52, 12491), (62, 12536), (67, 12557), (77, 12602), (97, 12710), (99, 12722), (103, 12743), (110, 12797), (116, 12827), (123, 12848), (129, 12881), (131, 12890), (134, 12911), (142, 12950), (158, 13028), (164, 13070), (169, 13106), (174, 13130), (204, 13304), (214, 13364), (218, 13385), (220, 13394), (250, 13562), (257, 13583), (261, 13607), (265, 13631), (270, 13652), (275, 13670), (282, 13703), (293, 13745), (294, 13748), (295, 13751), (302, 13790), (305, 13799), (318,

13868), (334, 13979), (340, 14009), (368, 14207), (373, 14240), (390, 14330), (393, 14348), (400, 14378), (404, 14405), (445, 14621), (453, 14657), (463, 14714), (468, 14732), (475, 14765), (476, 14777), (487, 14825), (502, 14906), (503, 14909), (539, 15026), (558, 15119), (578, 15197), (595, 15296), (599, 15320), (623, 15395), (676, 15854), (678, 15866), (684, 15935), (685, 15944), (719, 16136), (721, 16154), (729, 16190), (731, 16199), (742, 16265), (743, 16271), (746, 16286), (747, 16298),

Gene: ShiaSurprise_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for ShiaSurprise_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (265, 13550), (275, 13589), (282, 13622), (302, 13709), (309, 13733), (323, 13817), (338, 13901), (341, 13913), (345, 13934), (400, 14090), (439, 14171), (450, 14219), (453, 14237), (456, 14258), (463, 14294), (475, 14345), (486, 14402), (502, 14480), (504, 14489), (526, 14567), (531, 14582), (539, 14624), (554, 14678), (599, 14918), (623, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (710, 15650), (727, 15770), (738, 15842), (742, 15860), (743, 15866),

Gene: SirPhilip_20 Start: 10854, Stop: 14759, Start Num: 16

Candidate Starts for SirPhilip_20:

(Start: 16 @10854 has 58 MA's), (26, 10947), (37, 11052), (46, 11103), (47, 11106), (70, 11205), (88, 11286), (89, 11295), (96, 11334), (98, 11346), (101, 11364), (102, 11367), (104, 11376), (110, 11424), (113, 11439), (118, 11457), (121, 11463), (124, 11475), (152, 11613), (155, 11628), (165, 11694), (166, 11709), (222, 12021), (233, 12066), (234, 12072), (236, 12084), (239, 12114), (250, 12174), (254, 12186), (256, 12192), (259, 12207), (263, 12228), (266, 12246), (267, 12249), (294, 12354), (302, 12396), (308, 12417), (316, 12456), (340, 12510), (341, 12516), (373, 12675), (380, 12708), (397, 12753), (399, 12756), (400, 12759), (404, 12786), (405, 12789), (406, 12795), (412, 12819), (419, 12852), (426, 12885), (438, 12960), (448, 13014), (450, 13020), (453, 13038), (456, 13059), (462, 13092), (487, 13206), (502, 13287), (503, 13290), (526, 13374), (554, 13485), (558, 13524), (571, 13584), (599, 13725), (623, 13800), (677, 14253), (684, 14325), (690, 14379), (699, 14430), (719, 14556), (727, 14598), (738, 14673), (743, 14694),

Gene: Sizemore_16 Start: 11465, Stop: 15478, Start Num: 15

Candidate Starts for Sizemore_16:

(Start: 15 @11465 has 162 MA's), (34, 11666), (57, 11780), (67, 11822), (73, 11852), (99, 11987), (100, 11999), (103, 12008), (139, 12197), (142, 12215), (144, 12218), (149, 12239), (151, 12251), (162, 12323), (169, 12371), (192, 12503), (195, 12527), (210, 12608), (235, 12731), (248, 12815), (258, 12851), (265, 12896), (266, 12902), (293, 13010), (298, 13034), (302, 13055), (344, 13274), (362, 13424), (378, 13511), (399, 13619), (428, 13754), (445, 13865), (450, 13883), (455, 13913), (500, 14135), (507, 14159), (512, 14174), (517, 14195), (526, 14222), (534, 14249), (549, 14309), (566, 14399), (570, 14432), (587, 14495), (593, 14552), (599, 14585), (602, 14594), (678, 15098), (679, 15125), (682, 15155), (684, 15167), (685, 15176), (707, 15245), (728, 15326), (739, 15386), (743, 15404), (745, 15413),

Gene: Slarp_22 Start: 13324, Stop: 17499, Start Num: 16

Candidate Starts for Slarp_22:

(9, 13288), (Start: 16 @13324 has 58 MA's), (27, 13423), (34, 13522), (85, 13762), (87, 13771), (103, 13864), (131, 14011), (134, 14032), (142, 14071), (144, 14074), (158, 14149), (169, 14227), (183, 14314), (184, 14317), (190, 14347), (194, 14380), (200, 14404), (215, 14488), (221, 14518), (225, 14545), (246, 14653), (249, 14674), (251, 14686), (255, 14698), (265, 14752), (302, 14911), (308, 14932), (323, 15040), (342, 15160), (400, 15520), (410, 15571), (412, 15580), (422, 15625), (426, 15646), (469, 15865), (470, 15877), (474, 15886), (493, 15958), (502, 16009), (503, 16012), (510,

16039), (539, 16138), (545, 16156), (558, 16231), (597, 16420), (599, 16432), (623, 16507), (654, 16693), (662, 16813), (670, 16921), (684, 17071), (700, 17191), (703, 17200), (705, 17203), (720, 17302), (726, 17329), (743, 17425), (751, 17488),

Gene: Slimphazie_21 Start: 12080, Stop: 15916, Start Num: 15

Candidate Starts for Slimphazie_21:

(Start: 15 @12080 has 162 MA's), (Start: 23 @12149 has 1 MA's), (31, 12236), (59, 12413), (67, 12440), (84, 12512), (85, 12524), (87, 12533), (99, 12605), (110, 12680), (129, 12764), (131, 12773), (134, 12794), (142, 12833), (158, 12911), (169, 12989), (184, 13079), (196, 13154), (214, 13247), (216, 13256), (218, 13268), (220, 13277), (271, 13538), (275, 13553), (282, 13586), (302, 13673), (309, 13697), (323, 13781), (338, 13865), (341, 13877), (345, 13898), (400, 14054), (439, 14135), (450, 14183), (453, 14201), (456, 14222), (463, 14258), (475, 14309), (486, 14366), (502, 14444), (504, 14453), (526, 14531), (539, 14588), (554, 14642), (599, 14882), (623, 14957), (651, 15068), (664, 15287), (666, 15299), (684, 15485), (685, 15494), (696, 15566), (705, 15596), (710, 15617), (727, 15737), (738, 15809), (742, 15827), (743, 15833),

Gene: Sneeze_16 Start: 11453, Stop: 15478, Start Num: 15

Candidate Starts for Sneeze_16:

(Start: 15 @11453 has 162 MA's), (19, 11477), (34, 11654), (57, 11768), (67, 11810), (70, 11831), (73, 11840), (99, 11975), (103, 11996), (131, 12143), (139, 12185), (142, 12203), (144, 12206), (149, 12227), (151, 12239), (169, 12359), (180, 12425), (192, 12491), (195, 12515), (210, 12596), (235, 12719), (237, 12740), (255, 12830), (258, 12839), (266, 12890), (275, 12923), (278, 12941), (293, 12998), (302, 13043), (320, 13130), (323, 13151), (341, 13247), (344, 13262), (354, 13352), (360, 13409), (362, 13412), (392, 13571), (393, 13580), (399, 13607), (428, 13742), (450, 13871), (455, 13901), (500, 14123), (507, 14147), (512, 14162), (517, 14183), (534, 14237), (549, 14297), (566, 14387), (570, 14420), (572, 14435), (587, 14483), (593, 14540), (599, 14573), (668, 15005), (678, 15095), (679, 15122), (684, 15164), (685, 15173), (707, 15242), (716, 15269), (728, 15326), (739, 15386), (743, 15404), (745, 15413),

Gene: SoSeph_19 Start: 12264, Stop: 16394, Start Num: 14

Candidate Starts for SoSeph_19:

(Start: 14 @12264 has 31 MA's), (Start: 24 @12357 has 1 MA's), (32, 12435), (33, 12459), (43, 12519), (62, 12603), (65, 12615), (87, 12717), (97, 12777), (99, 12789), (103, 12810), (110, 12864), (122, 12912), (131, 12957), (134, 12978), (158, 13095), (169, 13173), (174, 13197), (184, 13263), (196, 13338), (214, 13431), (220, 13461), (252, 13635), (255, 13644), (261, 13674), (265, 13698), (270, 13719), (284, 13779), (302, 13857), (305, 13866), (320, 13944), (331, 14010), (339, 14052), (341, 14061), (348, 14145), (354, 14166), (356, 14199), (383, 14340), (384, 14349), (388, 14367), (393, 14394), (409, 14472), (428, 14556), (448, 14679), (460, 14745), (502, 14940), (510, 14970), (518, 14997), (521, 15003), (527, 15030), (537, 15075), (541, 15090), (542, 15096), (558, 15180), (570, 15228), (581, 15267), (591, 15327), (598, 15360), (603, 15381), (611, 15405), (618, 15438), (644, 15522), (653, 15594), (676, 15903), (680, 15957), (682, 15972), (684, 15984), (689, 16014), (722, 16200), (727, 16224), (729, 16236), (744, 16323), (747, 16347),

Gene: Spock_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for Spock_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (265, 13550), (275, 13589), (282, 13622), (302, 13709), (309, 13733), (323, 13817), (338, 13901), (341, 13913), (345, 13934), (400, 14090), (439, 14171), (450, 14219), (453, 14237), (456, 14258), (463, 14294), (475, 14345), (486, 14402), (502, 14480), (504, 14489), (526, 14567), (531, 14582), (539, 14624), (554, 14678), (599, 14918), (623, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527),

(696, 15599), (705, 15629), (710, 15650), (727, 15770), (738, 15842), (742, 15860), (743, 15866),

Gene: Stargaze_16 Start: 11766, Stop: 15800, Start Num: 16

Candidate Starts for Stargaze_16:

(Start: 16 @11766 has 58 MA's), (26, 11862), (35, 11967), (50, 12042), (55, 12060), (57, 12072), (63, 12090), (69, 12117), (70, 12123), (91, 12231), (93, 12237), (96, 12252), (98, 12264), (101, 12282), (108, 12327), (116, 12363), (120, 12378), (124, 12393), (125, 12399), (146, 12501), (152, 12543), (155, 12558), (161, 12594), (169, 12657), (173, 12678), (176, 12687), (187, 12750), (190, 12768), (215, 12909), (222, 12951), (229, 12981), (230, 12984), (232, 12993), (234, 13002), (239, 13044), (253, 13113), (254, 13116), (256, 13122), (259, 13137), (263, 13158), (264, 13167), (289, 13263), (298, 13305), (302, 13326), (309, 13350), (312, 13362), (313, 13365), (321, 13422), (327, 13455), (333, 13494), (341, 13536), (342, 13539), (354, 13641), (363, 13701), (365, 13716), (371, 13752), (383, 13815), (386, 13836), (399, 13896), (423, 14007), (428, 14031), (435, 14082), (436, 14088), (460, 14220), (489, 14352), (506, 14436), (508, 14451), (529, 14517), (544, 14586), (559, 14667), (562, 14676), (583, 14769), (589, 14826), (597, 14859), (616, 14919), (620, 14934), (662, 15213), (678, 15402), (679, 15429), (684, 15471), (723, 15708), (725, 15726), (729, 15741), (732, 15753),

Gene: Stinson_21 Start: 12048, Stop: 15881, Start Num: 15

Candidate Starts for Stinson_21:

(Start: 15 @12048 has 162 MA's), (Start: 23 @12117 has 1 MA's), (31, 12204), (59, 12384), (67, 12411), (85, 12495), (87, 12504), (97, 12564), (99, 12576), (110, 12651), (119, 12693), (129, 12735), (131, 12744), (134, 12765), (142, 12804), (158, 12882), (169, 12960), (196, 13125), (214, 13218), (218, 13239), (220, 13248), (265, 13485), (271, 13509), (275, 13524), (282, 13557), (302, 13644), (323, 13752), (338, 13836), (341, 13848), (345, 13869), (353, 13950), (400, 14025), (439, 14106), (441, 14115), (450, 14154), (453, 14172), (456, 14193), (463, 14229), (475, 14280), (486, 14337), (502, 14415), (504, 14424), (526, 14502), (531, 14517), (539, 14559), (554, 14613), (599, 14853), (623, 14928), (651, 15039), (664, 15258), (676, 15372), (684, 15453), (685, 15462), (696, 15534), (705, 15564), (710, 15585), (727, 15702), (738, 15774), (743, 15798),

Gene: Strobilo_17 Start: 10116, Stop: 13787, Start Num: 14

Candidate Starts for Strobilo_17:

(Start: 14 @10116 has 31 MA's), (Start: 23 @10188 has 1 MA's), (66, 10422), (84, 10473), (99, 10566), (103, 10587), (110, 10641), (131, 10734), (134, 10755), (139, 10776), (140, 10782), (158, 10872), (164, 10914), (169, 10950), (177, 10983), (178, 10995), (181, 11019), (184, 11040), (189, 11064), (190, 11070), (195, 11106), (196, 11115), (204, 11148), (206, 11160), (210, 11187), (248, 11370), (250, 11382), (252, 11388), (258, 11406), (261, 11427), (265, 11451), (280, 11475), (303, 11484), (307, 11499), (311, 11511), (322, 11544), (331, 11592), (350, 11733), (351, 11739), (355, 11775), (361, 11802), (366, 11820), (373, 11850), (393, 11946), (401, 11979), (412, 12015), (427, 12066), (433, 12099), (437, 12120), (442, 12144), (447, 12174), (452, 12195), (509, 12417), (536, 12510), (557, 12588), (586, 12711), (612, 12816), (631, 12864), (676, 13284), (677, 13293), (679, 13323), (708, 13488), (727, 13617), (743, 13710),

Gene: Sulley_21 Start: 12049, Stop: 15882, Start Num: 15

Candidate Starts for Sulley_21:

(Start: 15 @12049 has 162 MA's), (Start: 23 @12118 has 1 MA's), (31, 12205), (59, 12382), (67, 12409), (85, 12493), (87, 12502), (99, 12574), (110, 12649), (129, 12733), (131, 12742), (134, 12763), (142, 12802), (158, 12880), (169, 12958), (184, 13048), (196, 13123), (214, 13216), (218, 13237), (220, 13246), (265, 13483), (275, 13522), (282, 13555), (302, 13642), (309, 13666), (323, 13750), (338, 13834), (341, 13846), (345, 13867), (400, 14023), (439, 14104), (450, 14152), (453, 14170), (456, 14191), (463, 14227), (475, 14278), (486, 14335), (502, 14413), (504, 14422), (526, 14500), (531, 14515), (539, 14557), (554, 14611), (599, 14851), (623, 14926), (651, 15037), (664, 15256), (666, 15268), (684, 15451), (685, 15460), (705, 15562), (710, 15583), (727, 15703), (738, 15775), (742, 15793), (743, 15799),

Gene: Sunflower1121_19 Start: 10973, Stop: 14974, Start Num: 16

Candidate Starts for Sunflower1121_19:

(7, 10925), (Start: 16 @10973 has 58 MA's), (26, 11066), (37, 11171), (47, 11225), (50, 11243), (55, 11261), (63, 11291), (69, 11318), (70, 11324), (83, 11369), (98, 11465), (101, 11483), (102, 11486), (125, 11600), (128, 11615), (152, 11732), (155, 11747), (166, 11828), (178, 11888), (179, 11897), (190, 11957), (222, 12140), (223, 12146), (236, 12203), (250, 12293), (254, 12305), (256, 12311), (259, 12326), (263, 12347), (266, 12365), (285, 12440), (300, 12503), (302, 12515), (308, 12536), (316, 12575), (337, 12620), (341, 12635), (360, 12797), (373, 12860), (378, 12887), (392, 12959), (400, 12998), (410, 13049), (414, 13070), (421, 13100), (423, 13106), (428, 13130), (435, 13181), (456, 13298), (463, 13334), (475, 13385), (502, 13526), (526, 13613), (534, 13640), (554, 13724), (599, 13964), (623, 14039), (665, 14372), (676, 14474), (677, 14483), (684, 14555), (685, 14564), (696, 14639), (705, 14669), (710, 14690), (727, 14807), (735, 14858), (738, 14882), (746, 14921), (747, 14933),

Gene: Sweets_16 Start: 11459, Stop: 15472, Start Num: 15

Candidate Starts for Sweets_16:

(Start: 15 @11459 has 162 MA's), (34, 11660), (57, 11774), (67, 11816), (73, 11846), (99, 11981), (100, 11993), (103, 12002), (139, 12191), (142, 12209), (144, 12212), (149, 12233), (151, 12245), (162, 12317), (169, 12365), (192, 12497), (195, 12521), (210, 12602), (235, 12725), (248, 12809), (258, 12845), (265, 12890), (266, 12896), (293, 13004), (298, 13028), (302, 13049), (344, 13268), (362, 13418), (378, 13505), (399, 13613), (428, 13748), (445, 13859), (450, 13877), (455, 13907), (500, 14129), (507, 14153), (512, 14168), (517, 14189), (526, 14216), (534, 14243), (549, 14303), (566, 14393), (570, 14426), (587, 14489), (593, 14546), (599, 14579), (602, 14588), (678, 15092), (679, 15119), (682, 15149), (684, 15161), (685, 15170), (707, 15239), (728, 15320), (739, 15380), (743, 15398), (745, 15407),

Gene: Syra333_20 Start: 11068, Stop: 15069, Start Num: 16

Candidate Starts for Syra333_20:

(Start: 16 @11068 has 58 MA's), (26, 11161), (37, 11266), (47, 11320), (50, 11338), (55, 11356), (63, 11386), (69, 11413), (70, 11419), (83, 11464), (98, 11560), (101, 11578), (102, 11581), (125, 11695), (128, 11710), (152, 11827), (155, 11842), (166, 11923), (178, 11983), (179, 11992), (190, 12052), (222, 12235), (223, 12241), (236, 12298), (250, 12388), (254, 12400), (256, 12406), (259, 12421), (263, 12442), (266, 12460), (285, 12535), (294, 12568), (300, 12598), (302, 12610), (308, 12631), (316, 12670), (337, 12715), (341, 12730), (360, 12892), (373, 12955), (378, 12982), (392, 13054), (400, 13093), (410, 13144), (414, 13165), (421, 13195), (423, 13201), (428, 13225), (435, 13276), (453, 13372), (456, 13393), (463, 13429), (475, 13480), (502, 13621), (503, 13624), (526, 13708), (534, 13735), (554, 13819), (556, 13831), (599, 14059), (623, 14134), (684, 14650), (685, 14659), (696, 14734), (705, 14764), (710, 14785), (727, 14902), (738, 14977), (746, 15016), (747, 15028),

Gene: TBond007_20 Start: 11948, Stop: 16126, Start Num: 15

Candidate Starts for TBond007_20:

(Start: 15 @11948 has 162 MA's), (Start: 23 @12017 has 1 MA's), (Start: 24 @12038 has 1 MA's), (26, 12044), (31, 12104), (52, 12242), (62, 12287), (67, 12308), (97, 12461), (99, 12473), (103, 12494), (110, 12548), (116, 12578), (123, 12599), (129, 12632), (131, 12641), (134, 12662), (142, 12701), (158, 12779), (164, 12821), (169, 12857), (174, 12881), (204, 13055), (210, 13094), (214, 13115), (218, 13136), (220, 13145), (250, 13313), (257, 13334), (261, 13358), (265, 13382), (270, 13403), (275, 13421), (282, 13454), (293, 13496), (294, 13499), (295, 13502), (302, 13541), (305, 13550), (318, 13619), (334, 13730), (340, 13760), (368, 13958), (373, 13991), (390, 14081), (393, 14099), (400, 14129), (404, 14156), (445, 14372), (453, 14408), (463, 14465), (468, 14483), (472, 14504), (475, 14516), (487, 14576), (502, 14657), (514, 14696), (524, 14729), (526, 14744), (529, 14750), (531, 14759), (539, 14801), (558, 14894), (578, 14972), (599, 15095), (623, 15170), (676, 15635), (678, 15647), (684, 15716), (685, 15725), (719, 15917), (729, 15971), (731, 15980), (742, 16046),

(743, 16052), (746, 16067), (747, 16079),

Gene: TClif_20 Start: 11063, Stop: 15118, Start Num: 16

Candidate Starts for TClif_20:

(7, 11015), (Start: 16 @11063 has 58 MA's), (18, 11081), (26, 11156), (47, 11315), (69, 11408), (71, 11417), (76, 11435), (80, 11450), (89, 11504), (96, 11543), (98, 11555), (102, 11576), (108, 11618), (113, 11648), (121, 11672), (145, 11783), (152, 11822), (155, 11837), (156, 11846), (161, 11873), (169, 11936), (190, 12047), (197, 12098), (222, 12230), (233, 12275), (234, 12281), (239, 12323), (250, 12383), (254, 12395), (256, 12401), (259, 12416), (263, 12437), (266, 12455), (270, 12470), (278, 12506), (294, 12563), (300, 12593), (302, 12605), (307, 12623), (334, 12689), (340, 12719), (341, 12725), (352, 12824), (354, 12830), (373, 12950), (382, 12998), (384, 13013), (391, 13046), (393, 13058), (400, 13088), (406, 13124), (410, 13139), (411, 13145), (417, 13172), (423, 13196), (428, 13220), (432, 13250), (435, 13271), (450, 13349), (456, 13388), (463, 13424), (475, 13475), (488, 13538), (502, 13616), (503, 13619), (509, 13643), (526, 13703), (558, 13853), (599, 14054), (623, 14129), (642, 14198), (684, 14678), (685, 14687), (689, 14708), (696, 14783), (699, 14795), (705, 14813), (710, 14834), (727, 14951), (738, 15026), (742, 15044), (743, 15050), (746, 15065), (747, 15077), (748, 15089), (749, 15092), (750, 15113),

Gene: TM4_17 Start: 10184, Stop: 13873, Start Num: 14

Candidate Starts for TM4_17:

(Start: 14 @10184 has 31 MA's), (Start: 23 @10256 has 1 MA's), (66, 10490), (84, 10541), (99, 10634), (103, 10655), (110, 10709), (131, 10802), (134, 10823), (139, 10844), (140, 10850), (158, 10940), (164, 10982), (169, 11018), (174, 11042), (177, 11051), (178, 11063), (181, 11087), (184, 11108), (189, 11132), (190, 11138), (195, 11174), (196, 11183), (199, 11192), (204, 11216), (206, 11228), (210, 11255), (248, 11438), (250, 11450), (252, 11456), (261, 11495), (265, 11519), (307, 11567), (311, 11579), (322, 11612), (324, 11618), (351, 11807), (353, 11813), (355, 11843), (361, 11870), (366, 11888), (367, 11894), (373, 11918), (388, 11987), (393, 12014), (401, 12047), (411, 12080), (412, 12083), (427, 12134), (433, 12167), (437, 12188), (442, 12212), (447, 12242), (452, 12263), (528, 12545), (555, 12638), (560, 12686), (563, 12689), (567, 12701), (585, 12782), (590, 12815), (592, 12824), (594, 12830), (599, 12863), (613, 12890), (617, 12908), (625, 12926), (628, 12932), (660, 13178), (676, 13358), (677, 13367), (685, 13448), (727, 13703), (743, 13796),

Gene: Tachez_21 Start: 12042, Stop: 15878, Start Num: 15

Candidate Starts for Tachez_21:

(Start: 15 @12042 has 162 MA's), (Start: 23 @12111 has 1 MA's), (31, 12198), (59, 12375), (67, 12402), (84, 12474), (85, 12486), (87, 12495), (99, 12567), (110, 12642), (129, 12726), (131, 12735), (134, 12756), (142, 12795), (158, 12873), (169, 12951), (184, 13041), (196, 13116), (214, 13209), (216, 13218), (218, 13230), (220, 13239), (271, 13500), (275, 13515), (282, 13548), (302, 13635), (309, 13659), (323, 13743), (338, 13827), (341, 13839), (345, 13860), (400, 14016), (439, 14097), (450, 14145), (453, 14163), (456, 14184), (463, 14220), (475, 14271), (486, 14328), (502, 14406), (504, 14415), (526, 14493), (539, 14550), (554, 14604), (599, 14844), (623, 14919), (651, 15030), (664, 15249), (666, 15261), (684, 15447), (685, 15456), (696, 15528), (705, 15558), (710, 15579), (727, 15699), (738, 15771), (742, 15789), (743, 15795),

Gene: Taheera_16 Start: 11466, Stop: 15491, Start Num: 15

Candidate Starts for Taheera_16:

(Start: 15 @11466 has 162 MA's), (19, 11490), (34, 11667), (57, 11781), (67, 11823), (70, 11844), (73, 11853), (99, 11988), (103, 12009), (131, 12156), (139, 12198), (142, 12216), (144, 12219), (148, 12234), (149, 12240), (151, 12252), (169, 12372), (180, 12438), (192, 12504), (195, 12528), (210, 12609), (235, 12732), (237, 12753), (248, 12816), (255, 12843), (258, 12852), (266, 12903), (278, 12954), (293, 13011), (302, 13056), (320, 13143), (341, 13260), (344, 13275), (354, 13365), (360, 13422), (362, 13425), (390, 13575), (393, 13593), (450, 13884), (455, 13914), (500, 14136), (507, 14160), (512, 14175), (517, 14196), (534, 14250), (549, 14310), (566, 14400), (570, 14433), (572,

14448), (587, 14496), (593, 14553), (599, 14586), (668, 15018), (678, 15108), (679, 15135), (684, 15177), (685, 15186), (707, 15255), (716, 15282), (728, 15339), (739, 15399), (743, 15417), (745, 15426),

Gene: TaiwanKao_22 Start: 12053, Stop: 15889, Start Num: 15

Candidate Starts for TaiwanKao_22:

(Start: 15 @12053 has 162 MA's), (Start: 23 @12122 has 1 MA's), (31, 12209), (59, 12389), (67, 12416), (85, 12500), (87, 12509), (97, 12569), (99, 12581), (110, 12656), (119, 12698), (129, 12740), (131, 12749), (134, 12770), (142, 12809), (158, 12887), (169, 12965), (196, 13130), (214, 13223), (216, 13232), (218, 13244), (220, 13253), (265, 13490), (271, 13514), (275, 13529), (282, 13562), (302, 13649), (309, 13673), (323, 13757), (338, 13841), (341, 13853), (353, 13955), (400, 14030), (439, 14111), (450, 14159), (453, 14177), (455, 14189), (456, 14198), (463, 14234), (475, 14285), (486, 14342), (502, 14420), (504, 14429), (526, 14507), (531, 14522), (539, 14564), (554, 14618), (599, 14858), (623, 14933), (651, 15044), (664, 15263), (666, 15275), (676, 15377), (684, 15458), (685, 15467), (696, 15539), (705, 15569), (710, 15590), (727, 15710), (738, 15782), (742, 15800), (743, 15806),

Gene: Taquito_20 Start: 12915, Stop: 17108, Start Num: 16

Candidate Starts for Taquito_20:

(Start: 16 @12915 has 58 MA's), (34, 13113), (85, 13353), (87, 13362), (99, 13434), (103, 13455), (129, 13593), (131, 13602), (134, 13623), (142, 13662), (156, 13731), (158, 13740), (169, 13818), (171, 13830), (184, 13908), (190, 13938), (194, 13971), (195, 13974), (200, 13995), (225, 14136), (227, 14145), (251, 14277), (255, 14289), (265, 14343), (275, 14382), (282, 14415), (302, 14502), (308, 14523), (332, 14700), (342, 14751), (360, 14910), (400, 15111), (410, 15162), (412, 15171), (422, 15216), (426, 15237), (469, 15456), (470, 15468), (474, 15477), (488, 15522), (493, 15549), (498, 15582), (502, 15600), (503, 15603), (510, 15630), (539, 15729), (545, 15747), (558, 15822), (576, 15894), (597, 16011), (599, 16023), (623, 16098), (641, 16167), (654, 16296), (660, 16410), (684, 16677), (687, 16695), (703, 16806), (705, 16809), (720, 16908), (726, 16935), (727, 16938), (743, 17034), (751, 17097),

Gene: Terror_16 Start: 11466, Stop: 15491, Start Num: 15

Candidate Starts for Terror_16:

(Start: 15 @11466 has 162 MA's), (19, 11490), (34, 11667), (57, 11781), (67, 11823), (70, 11844), (73, 11853), (99, 11988), (103, 12009), (131, 12156), (139, 12198), (142, 12216), (144, 12219), (148, 12234), (149, 12240), (151, 12252), (169, 12372), (180, 12438), (192, 12504), (195, 12528), (210, 12609), (235, 12732), (237, 12753), (248, 12816), (255, 12843), (258, 12852), (266, 12903), (278, 12954), (293, 13011), (302, 13056), (320, 13143), (341, 13260), (344, 13275), (354, 13365), (360, 13422), (362, 13425), (390, 13575), (393, 13593), (450, 13884), (455, 13914), (500, 14136), (507, 14160), (512, 14175), (517, 14196), (534, 14250), (549, 14310), (566, 14400), (570, 14433), (572, 14448), (587, 14496), (593, 14553), (599, 14586), (668, 15018), (678, 15108), (679, 15135), (684, 15177), (685, 15186), (707, 15255), (716, 15282), (728, 15339), (739, 15399), (743, 15417), (745, 15426),

Gene: Thyatira_19 Start: 12136, Stop: 16245, Start Num: 14

Candidate Starts for Thyatira_19:

(Start: 14 @12136 has 31 MA's), (43, 12394), (62, 12478), (77, 12544), (87, 12592), (97, 12652), (99, 12664), (103, 12685), (110, 12739), (116, 12769), (131, 12832), (134, 12853), (148, 12910), (158, 12970), (169, 13048), (174, 13072), (180, 13114), (186, 13147), (214, 13306), (218, 13327), (237, 13405), (248, 13468), (251, 13483), (252, 13486), (255, 13495), (257, 13501), (259, 13513), (269, 13567), (295, 13669), (302, 13708), (331, 13861), (339, 13903), (344, 13927), (354, 14017), (356, 14050), (383, 14191), (384, 14200), (388, 14218), (393, 14245), (409, 14323), (428, 14407), (448, 14530), (460, 14596), (481, 14698), (502, 14791), (504, 14800), (510, 14821), (521, 14854), (534, 14905), (537, 14926), (541, 14941), (542, 14947), (558, 15031), (568, 15061), (570, 15079), (581,

15118), (591, 15178), (598, 15211), (603, 15232), (611, 15256), (618, 15289), (644, 15373), (653, 15445), (676, 15754), (680, 15808), (682, 15823), (684, 15835), (689, 15865), (722, 16051), (727, 16075), (729, 16087), (744, 16174), (747, 16198),

Gene: Tierra_20 Start: 11792, Stop: 15793, Start Num: 16

Candidate Starts for Tierra_20:

(Start: 16 @11792 has 58 MA's), (26, 11885), (37, 11990), (42, 12017), (47, 12044), (50, 12062), (55, 12080), (60, 12104), (63, 12110), (69, 12137), (70, 12143), (80, 12179), (83, 12188), (86, 12212), (98, 12284), (101, 12302), (102, 12305), (128, 12434), (152, 12551), (166, 12647), (173, 12686), (179, 12716), (190, 12776), (222, 12959), (223, 12965), (224, 12968), (236, 13022), (239, 13052), (250, 13112), (254, 13124), (256, 13130), (259, 13145), (263, 13166), (266, 13184), (300, 13322), (302, 13334), (308, 13355), (316, 13394), (340, 13448), (341, 13454), (360, 13616), (373, 13679), (388, 13760), (391, 13775), (400, 13817), (410, 13868), (414, 13889), (421, 13919), (423, 13925), (428, 13949), (435, 14000), (445, 14060), (456, 14117), (463, 14153), (468, 14171), (475, 14204), (502, 14345), (503, 14348), (526, 14432), (534, 14459), (554, 14543), (599, 14783), (623, 14858), (665, 15191), (676, 15293), (677, 15302), (684, 15374), (696, 15458), (705, 15488), (710, 15509), (727, 15626), (738, 15701), (746, 15740), (747, 15752),

Gene: TinaBug_16 Start: 11459, Stop: 15472, Start Num: 15

Candidate Starts for TinaBug_16:

(Start: 15 @11459 has 162 MA's), (34, 11660), (57, 11774), (67, 11816), (73, 11846), (99, 11981), (100, 11993), (103, 12002), (139, 12191), (142, 12209), (144, 12212), (149, 12233), (151, 12245), (162, 12317), (169, 12365), (192, 12497), (195, 12521), (210, 12602), (235, 12725), (248, 12809), (258, 12845), (265, 12890), (266, 12896), (293, 13004), (298, 13028), (302, 13049), (344, 13268), (362, 13418), (378, 13505), (399, 13613), (428, 13748), (445, 13859), (450, 13877), (455, 13907), (500, 14129), (507, 14153), (512, 14168), (517, 14189), (526, 14216), (534, 14243), (549, 14303), (566, 14393), (570, 14426), (587, 14489), (593, 14546), (599, 14579), (602, 14588), (678, 15092), (679, 15119), (682, 15149), (684, 15161), (685, 15170), (707, 15239), (728, 15320), (739, 15380), (743, 15398), (745, 15407),

Gene: TingHuaYa_21 Start: 11093, Stop: 15220, Start Num: 16

Candidate Starts for TingHuaYa_21:

(9, 11045), (Start: 16 @11093 has 58 MA's), (26, 11186), (42, 11318), (46, 11342), (53, 11372), (57, 11393), (60, 11405), (69, 11438), (76, 11465), (91, 11552), (98, 11585), (101, 11603), (102, 11606), (108, 11648), (118, 11696), (146, 11822), (152, 11864), (155, 11879), (161, 11915), (170, 11987), (190, 12089), (222, 12272), (232, 12314), (233, 12317), (234, 12323), (236, 12335), (239, 12365), (250, 12425), (256, 12443), (259, 12458), (262, 12476), (263, 12479), (270, 12512), (292, 12593), (295, 12608), (302, 12647), (308, 12668), (338, 12845), (341, 12857), (343, 12866), (346, 12917), (353, 12959), (373, 13082), (377, 13106), (388, 13163), (391, 13178), (392, 13181), (404, 13247), (406, 13256), (412, 13280), (423, 13328), (435, 13403), (438, 13421), (450, 13481), (454, 13508), (456, 13520), (463, 13556), (468, 13574), (477, 13619), (480, 13649), (487, 13667), (502, 13748), (503, 13751), (526, 13835), (531, 13850), (538, 13889), (539, 13892), (558, 13985), (574, 14051), (599, 14186), (662, 14537), (676, 14708), (684, 14789), (696, 14873), (727, 15041), (738, 15113), (742, 15131), (743, 15137),

Gene: TiniBug_21 Start: 12024, Stop: 15860, Start Num: 15

Candidate Starts for TiniBug_21:

(Start: 15 @12024 has 162 MA's), (Start: 23 @12093 has 1 MA's), (31, 12180), (59, 12360), (67, 12387), (85, 12471), (87, 12480), (97, 12540), (99, 12552), (110, 12627), (119, 12669), (129, 12711), (131, 12720), (134, 12741), (142, 12780), (158, 12858), (169, 12936), (196, 13101), (214, 13194), (218, 13215), (220, 13224), (265, 13461), (271, 13485), (275, 13500), (282, 13533), (302, 13620), (320, 13707), (323, 13728), (338, 13812), (341, 13824), (345, 13845), (400, 14001), (439, 14082), (453, 14148), (456, 14169), (463, 14205), (475, 14256), (479, 14274), (486, 14313), (502, 14391),

(526, 14478), (531, 14493), (539, 14535), (554, 14589), (599, 14829), (623, 14904), (651, 15015), (653, 15036), (654, 15057), (662, 15177), (676, 15348), (684, 15429), (685, 15438), (696, 15510), (705, 15540), (710, 15561), (727, 15681), (738, 15753), (742, 15771), (743, 15777),

Gene: Tiri_21 Start: 12088, Stop: 15921, Start Num: 15

Candidate Starts for Tiri_21:

(3, 11869), (10, 12049), (Start: 15 @12088 has 162 MA's), (Start: 23 @12157 has 1 MA's), (31, 12244), (59, 12421), (67, 12448), (85, 12532), (87, 12541), (99, 12613), (110, 12688), (129, 12772), (131, 12781), (134, 12802), (142, 12841), (158, 12919), (169, 12997), (184, 13087), (196, 13162), (214, 13255), (216, 13264), (218, 13276), (220, 13285), (255, 13468), (265, 13522), (275, 13561), (282, 13594), (302, 13681), (309, 13705), (323, 13789), (338, 13873), (341, 13885), (345, 13906), (400, 14062), (439, 14143), (450, 14191), (453, 14209), (456, 14230), (463, 14266), (475, 14317), (486, 14374), (502, 14452), (504, 14461), (526, 14539), (539, 14596), (554, 14650), (599, 14890), (623, 14965), (651, 15076), (664, 15295), (666, 15307), (676, 15409), (684, 15490), (685, 15499), (705, 15601), (710, 15622), (727, 15742), (738, 15814), (742, 15832), (743, 15838),

Gene: TomBrady_16 Start: 11465, Stop: 15478, Start Num: 15

Candidate Starts for TomBrady_16:

(Start: 15 @11465 has 162 MA's), (34, 11666), (57, 11780), (67, 11822), (73, 11852), (99, 11987), (100, 11999), (103, 12008), (139, 12197), (142, 12215), (144, 12218), (149, 12239), (151, 12251), (162, 12323), (169, 12371), (192, 12503), (195, 12527), (210, 12608), (235, 12731), (248, 12815), (258, 12851), (265, 12896), (266, 12902), (293, 13010), (298, 13034), (302, 13055), (344, 13274), (362, 13424), (378, 13511), (399, 13619), (428, 13754), (445, 13865), (450, 13883), (455, 13913), (500, 14135), (507, 14159), (512, 14174), (517, 14195), (526, 14222), (534, 14249), (549, 14309), (566, 14399), (570, 14432), (587, 14495), (593, 14552), (599, 14585), (602, 14594), (678, 15098), (679, 15125), (682, 15155), (684, 15167), (685, 15176), (707, 15245), (728, 15326), (739, 15386), (743, 15404), (745, 15413),

Gene: Topper_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for Topper_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (265, 13550), (275, 13589), (282, 13622), (302, 13709), (309, 13733), (323, 13817), (338, 13901), (341, 13913), (345, 13934), (400, 14090), (439, 14171), (450, 14219), (453, 14237), (456, 14258), (463, 14294), (475, 14345), (486, 14402), (502, 14480), (504, 14489), (526, 14567), (531, 14582), (539, 14624), (554, 14678), (599, 14918), (623, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (710, 15650), (727, 15770), (738, 15842), (742, 15860), (743, 15866),

Gene: Torres_17 Start: 11327, Stop: 15460, Start Num: 15

Candidate Starts for Torres_17:

(10, 11288), (Start: 15 @11327 has 162 MA's), (Start: 23 @11396 has 1 MA's), (31, 11483), (41, 11561), (62, 11669), (67, 11690), (74, 11723), (99, 11855), (101, 11870), (103, 11876), (110, 11930), (116, 11960), (131, 12023), (134, 12044), (142, 12083), (158, 12161), (169, 12239), (174, 12263), (214, 12497), (230, 12578), (240, 12638), (250, 12695), (260, 12731), (265, 12764), (271, 12788), (287, 12854), (290, 12863), (302, 12923), (323, 13031), (331, 13076), (354, 13232), (371, 13343), (373, 13352), (375, 13364), (384, 13415), (388, 13433), (393, 13460), (400, 13490), (419, 13583), (428, 13622), (456, 13790), (468, 13844), (475, 13877), (484, 13922), (502, 14003), (503, 14006), (526, 14090), (529, 14096), (531, 14105), (539, 14147), (552, 14183), (554, 14201), (558, 14240), (571, 14300), (599, 14441), (618, 14501), (623, 14516), (666, 14858), (684, 15047), (685, 15056), (694, 15119), (743, 15395),

Gene: TreyKay_21 Start: 12047, Stop: 15883, Start Num: 15

Candidate Starts for TreyKay_21:

(Start: 15 @12047 has 162 MA's), (Start: 23 @12116 has 1 MA's), (31, 12203), (59, 12383), (67, 12410), (87, 12503), (97, 12563), (99, 12575), (110, 12650), (123, 12701), (131, 12743), (134, 12764), (142, 12803), (158, 12881), (169, 12959), (174, 12983), (196, 13124), (214, 13217), (216, 13226), (218, 13238), (220, 13247), (265, 13484), (271, 13508), (275, 13523), (282, 13556), (302, 13643), (309, 13667), (323, 13751), (338, 13835), (341, 13847), (345, 13868), (353, 13949), (400, 14024), (439, 14105), (450, 14153), (453, 14171), (455, 14183), (456, 14192), (463, 14228), (475, 14279), (486, 14336), (502, 14414), (504, 14423), (526, 14501), (531, 14516), (539, 14558), (554, 14612), (599, 14852), (623, 14927), (651, 15038), (664, 15257), (666, 15269), (676, 15371), (684, 15452), (685, 15461), (696, 15533), (705, 15563), (710, 15584), (727, 15704), (738, 15776), (742, 15794), (743, 15800),

Gene: TribbleTrouble_19 Start: 12006, Stop: 16166, Start Num: 15

Candidate Starts for TribbleTrouble_19:

(Start: 15 @12006 has 162 MA's), (Start: 23 @12075 has 1 MA's), (Start: 24 @12096 has 1 MA's), (26, 12102), (31, 12162), (58, 12327), (62, 12345), (67, 12366), (70, 12387), (77, 12411), (85, 12450), (95, 12513), (97, 12519), (99, 12531), (110, 12606), (131, 12699), (134, 12720), (142, 12759), (158, 12837), (165, 12882), (169, 12915), (174, 12939), (180, 12981), (204, 13113), (214, 13173), (218, 13194), (220, 13203), (237, 13296), (250, 13371), (261, 13416), (265, 13440), (270, 13461), (276, 13485), (281, 13509), (294, 13557), (302, 13599), (329, 13755), (338, 13812), (360, 13986), (368, 14016), (373, 14049), (400, 14187), (404, 14214), (412, 14247), (424, 14301), (428, 14319), (432, 14349), (445, 14430), (453, 14466), (468, 14541), (475, 14574), (481, 14619), (487, 14634), (502, 14715), (503, 14718), (524, 14787), (526, 14802), (529, 14808), (531, 14817), (554, 14913), (558, 14952), (578, 15030), (595, 15129), (599, 15153), (623, 15228), (672, 15654), (676, 15684), (677, 15693), (678, 15696), (685, 15774), (710, 15900), (719, 15960), (721, 15978), (736, 16056), (743, 16092), (746, 16107), (747, 16119), (753, 16158),

Gene: TruffulaTree_21 Start: 12076, Stop: 15912, Start Num: 15

Candidate Starts for TruffulaTree_21:

(Start: 15 @12076 has 162 MA's), (Start: 23 @12145 has 1 MA's), (31, 12232), (59, 12409), (67, 12436), (84, 12508), (85, 12520), (87, 12529), (99, 12601), (110, 12676), (129, 12760), (131, 12769), (134, 12790), (142, 12829), (158, 12907), (169, 12985), (184, 13075), (196, 13150), (214, 13243), (216, 13252), (218, 13264), (220, 13273), (271, 13534), (275, 13549), (282, 13582), (302, 13669), (309, 13693), (323, 13777), (338, 13861), (341, 13873), (345, 13894), (400, 14050), (439, 14131), (450, 14179), (453, 14197), (456, 14218), (463, 14254), (475, 14305), (486, 14362), (502, 14440), (504, 14449), (526, 14527), (539, 14584), (554, 14638), (599, 14878), (623, 14953), (651, 15064), (664, 15283), (666, 15295), (684, 15481), (685, 15490), (696, 15562), (705, 15592), (710, 15613), (727, 15733), (738, 15805), (742, 15823), (743, 15829),

Gene: Twitch_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for Twitch_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (265, 13550), (275, 13589), (282, 13622), (302, 13709), (309, 13733), (323, 13817), (338, 13901), (341, 13913), (345, 13934), (400, 14090), (439, 14171), (450, 14219), (453, 14237), (456, 14258), (463, 14294), (475, 14345), (486, 14402), (502, 14480), (504, 14489), (526, 14567), (531, 14582), (539, 14624), (554, 14678), (599, 14918), (623, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (710, 15650), (727, 15770), (738, 15842), (742, 15860), (743, 15866),

Gene: Unicorn_20 Start: 11123, Stop: 15124, Start Num: 16

Candidate Starts for Unicorn_20:

(Start: 16 @11123 has 58 MA's), (26, 11216), (37, 11321), (47, 11375), (50, 11393), (55, 11411), (60, 11435), (63, 11441), (69, 11468), (70, 11474), (74, 11486), (83, 11519), (98, 11615), (101, 11633), (102, 11636), (125, 11750), (128, 11765), (152, 11882), (166, 11978), (173, 12017), (178, 12038), (179, 12047), (190, 12107), (222, 12290), (223, 12296), (224, 12299), (236, 12353), (239, 12383), (250, 12443), (254, 12455), (256, 12461), (259, 12476), (263, 12497), (266, 12515), (300, 12653), (302, 12665), (308, 12686), (316, 12725), (340, 12779), (341, 12785), (353, 12887), (360, 12947), (373, 13010), (388, 13091), (391, 13106), (392, 13109), (400, 13148), (406, 13184), (410, 13199), (411, 13205), (417, 13232), (423, 13256), (435, 13331), (445, 13391), (456, 13448), (463, 13484), (475, 13535), (502, 13676), (503, 13679), (526, 13763), (534, 13790), (554, 13874), (558, 13913), (599, 14114), (623, 14189), (659, 14408), (665, 14522), (676, 14624), (677, 14633), (684, 14705), (696, 14789), (705, 14819), (710, 14840), (727, 14957), (738, 15032), (746, 15071), (747, 15083),

Gene: Urkel_21 Start: 12024, Stop: 15863, Start Num: 15

Candidate Starts for Urkel_21:

(Start: 15 @12024 has 162 MA's), (Start: 23 @12093 has 1 MA's), (31, 12180), (59, 12360), (67, 12387), (85, 12471), (87, 12480), (97, 12540), (99, 12552), (110, 12627), (123, 12678), (131, 12720), (134, 12741), (142, 12780), (158, 12858), (169, 12936), (174, 12960), (196, 13101), (214, 13194), (218, 13215), (220, 13224), (265, 13461), (271, 13485), (275, 13500), (282, 13533), (302, 13620), (320, 13707), (323, 13728), (338, 13812), (341, 13824), (345, 13845), (400, 14001), (439, 14082), (453, 14148), (456, 14169), (463, 14205), (475, 14256), (479, 14274), (486, 14313), (502, 14391), (526, 14478), (531, 14493), (539, 14535), (554, 14589), (599, 14829), (623, 14904), (651, 15015), (653, 15036), (654, 15057), (662, 15177), (676, 15351), (684, 15432), (685, 15441), (696, 15513), (705, 15543), (710, 15564), (727, 15684), (738, 15756), (742, 15774), (743, 15780),

Gene: Validus_21 Start: 11056, Stop: 15213, Start Num: 16

Candidate Starts for Validus_21:

(9, 11008), (Start: 16 @11056 has 58 MA's), (26, 11149), (Start: 28 @11161 has 2 MA's), (46, 11305), (47, 11308), (76, 11428), (91, 11515), (98, 11548), (109, 11623), (110, 11626), (125, 11692), (146, 11794), (152, 11836), (155, 11851), (156, 11860), (161, 11887), (165, 11917), (169, 11950), (178, 11992), (190, 12061), (222, 12247), (223, 12253), (232, 12289), (236, 12310), (237, 12322), (239, 12340), (250, 12400), (254, 12412), (256, 12418), (259, 12433), (262, 12451), (263, 12454), (270, 12487), (295, 12583), (302, 12622), (308, 12643), (315, 12673), (319, 12706), (333, 12790), (338, 12820), (341, 12832), (353, 12934), (365, 13012), (373, 13057), (377, 13081), (387, 13135), (388, 13138), (391, 13153), (392, 13156), (400, 13195), (404, 13222), (410, 13246), (411, 13252), (417, 13279), (428, 13327), (435, 13378), (438, 13396), (444, 13432), (445, 13438), (450, 13456), (454, 13483), (456, 13495), (468, 13549), (475, 13582), (487, 13642), (502, 13723), (503, 13726), (526, 13810), (531, 13825), (539, 13867), (558, 13960), (574, 14026), (599, 14161), (661, 14509), (677, 14701), (684, 14773), (685, 14782), (689, 14803), (691, 14845), (727, 15040), (729, 15052), (738, 15112), (743, 15136), (748, 15175),

Gene: Veliki_21 Start: 12116, Stop: 15952, Start Num: 15

Candidate Starts for Veliki_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (Start: 24 @12206 has 1 MA's), (31, 12272), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (265, 13550), (275, 13589), (282, 13622), (302, 13709), (309, 13733), (323, 13817), (338, 13901), (341, 13913), (345, 13934), (400, 14090), (439, 14171), (450, 14219), (453, 14237), (456, 14258), (463, 14294), (475, 14345), (486, 14402), (502, 14480), (504, 14489), (526, 14567), (539, 14624), (554, 14678), (599, 14918), (623, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15521), (685, 15530), (696, 15602), (705, 15632), (710, 15653), (727, 15773), (738, 15845), (742, 15863), (743, 15869),

Gene: ViviJ_18 Start: 11997, Stop: 16103, Start Num: 14

Candidate Starts for ViviJ_18:

(Start: 14 @11997 has 31 MA's), (Start: 24 @12090 has 1 MA's), (32, 12168), (33, 12192), (43, 12252), (62, 12336), (65, 12348), (87, 12450), (97, 12510), (99, 12522), (103, 12543), (110, 12597), (122, 12645), (131, 12690), (134, 12711), (158, 12828), (169, 12906), (174, 12930), (184, 12996), (196, 13071), (214, 13164), (220, 13194), (252, 13368), (255, 13377), (261, 13407), (265, 13431), (270, 13452), (284, 13512), (302, 13590), (305, 13599), (320, 13677), (331, 13743), (339, 13785), (341, 13794), (348, 13878), (354, 13899), (356, 13932), (369, 13998), (373, 14019), (383, 14073), (384, 14082), (388, 14100), (392, 14118), (393, 14127), (400, 14157), (406, 14193), (418, 14247), (426, 14283), (428, 14289), (429, 14307), (448, 14412), (460, 14478), (502, 14673), (510, 14703), (521, 14736), (534, 14787), (537, 14808), (541, 14823), (542, 14829), (558, 14913), (570, 14961), (581, 15000), (591, 15060), (598, 15093), (603, 15114), (611, 15138), (618, 15168), (644, 15234), (653, 15306), (676, 15621), (677, 15630), (678, 15633), (680, 15675), (684, 15702), (689, 15732), (696, 15783), (700, 15801), (717, 15867), (722, 15915), (727, 15939), (729, 15951), (744, 16032), (747, 16056), (753, 16095),

Gene: Waterfoul_19 Start: 12158, Stop: 16267, Start Num: 14

Candidate Starts for Waterfoul_19:

(Start: 14 @12158 has 31 MA's), (43, 12416), (62, 12500), (77, 12566), (87, 12614), (97, 12674), (99, 12686), (103, 12707), (110, 12761), (116, 12791), (131, 12854), (134, 12875), (148, 12932), (158, 12992), (169, 13070), (174, 13094), (180, 13136), (186, 13169), (214, 13328), (218, 13349), (237, 13427), (248, 13490), (251, 13505), (252, 13508), (255, 13517), (257, 13523), (259, 13535), (269, 13589), (295, 13691), (302, 13730), (331, 13883), (339, 13925), (344, 13949), (354, 14039), (356, 14072), (383, 14213), (384, 14222), (388, 14240), (393, 14267), (409, 14345), (428, 14429), (448, 14552), (460, 14618), (481, 14720), (502, 14813), (504, 14822), (510, 14843), (521, 14876), (534, 14927), (537, 14948), (541, 14963), (542, 14969), (558, 15053), (568, 15083), (570, 15101), (581, 15140), (591, 15200), (598, 15233), (603, 15254), (611, 15278), (618, 15311), (644, 15395), (653, 15467), (676, 15776), (680, 15830), (682, 15845), (684, 15857), (689, 15887), (722, 16073), (727, 16097), (729, 16109), (744, 16196), (747, 16220),

Gene: Wendigo_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Wendigo_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: Wintermute_22 Start: 13313, Stop: 17488, Start Num: 16

Candidate Starts for Wintermute_22:

(9, 13277), (Start: 16 @13313 has 58 MA's), (34, 13511), (85, 13751), (87, 13760), (103, 13853), (122, 13955), (131, 14000), (142, 14060), (158, 14138), (169, 14216), (183, 14303), (184, 14306), (190, 14336), (194, 14369), (200, 14393), (215, 14477), (221, 14507), (225, 14534), (246, 14642), (249, 14663), (251, 14675), (255, 14687), (265, 14741), (302, 14900), (308, 14921), (323, 15029), (342, 15149), (394, 15491), (400, 15509), (410, 15560), (412, 15569), (422, 15614), (426, 15635), (451, 15755), (469, 15854), (470, 15866), (474, 15875), (493, 15947), (502, 15998), (503, 16001), (510, 16028), (539, 16127), (545, 16145), (558, 16220), (597, 16409), (599, 16421), (623, 16496), (634, 16526), (654, 16682), (662, 16802), (670, 16910), (684, 17060), (703, 17189), (705, 17192), (720, 17291), (726, 17318), (743, 17414), (751, 17477),

Gene: Ximenita_21 Start: 11247, Stop: 15251, Start Num: 16

Candidate Starts for Ximenita_21:

(Start: 16 @11247 has 58 MA's), (26, 11340), (37, 11445), (47, 11499), (50, 11517), (60, 11559), (69, 11592), (70, 11598), (88, 11679), (98, 11739), (101, 11757), (102, 11760), (125, 11874), (128, 11889), (152, 12006), (157, 12033), (166, 12102), (178, 12162), (179, 12171), (180, 12183), (190, 12231), (222, 12414), (223, 12420), (224, 12423), (250, 12567), (254, 12579), (256, 12585), (259, 12600), (263, 12621), (266, 12639), (300, 12777), (302, 12789), (308, 12810), (316, 12849), (340, 12903), (341, 12909), (353, 13011), (360, 13071), (373, 13134), (387, 13212), (388, 13215), (391, 13230), (400, 13272), (404, 13299), (406, 13308), (410, 13323), (411, 13329), (417, 13356), (423, 13380), (424, 13386), (432, 13434), (435, 13455), (450, 13533), (453, 13551), (456, 13572), (463, 13608), (475, 13659), (502, 13800), (504, 13809), (526, 13887), (554, 13998), (556, 14010), (599, 14238), (623, 14313), (677, 14757), (684, 14829), (685, 14838), (696, 14913), (705, 14943), (710, 14964), (727, 15081), (738, 15156), (746, 15195), (747, 15207), (752, 15246),

Gene: Y10_22 Start: 13313, Stop: 17488, Start Num: 16

Candidate Starts for Y10_22:

(9, 13277), (Start: 16 @13313 has 58 MA's), (34, 13511), (85, 13751), (87, 13760), (103, 13853), (122, 13955), (131, 14000), (142, 14060), (158, 14138), (169, 14216), (183, 14303), (184, 14306), (190, 14336), (194, 14369), (200, 14393), (215, 14477), (221, 14507), (225, 14534), (246, 14642), (249, 14663), (251, 14675), (255, 14687), (265, 14741), (302, 14900), (308, 14921), (323, 15029), (342, 15149), (394, 15491), (400, 15509), (410, 15560), (412, 15569), (422, 15614), (426, 15635), (451, 15755), (469, 15854), (470, 15866), (474, 15875), (493, 15947), (502, 15998), (503, 16001), (510, 16028), (539, 16127), (545, 16145), (558, 16220), (597, 16409), (599, 16421), (623, 16496), (634, 16526), (654, 16682), (662, 16802), (670, 16910), (684, 17060), (700, 17180), (703, 17189), (705, 17192), (720, 17291), (726, 17318), (743, 17414), (751, 17477),

Gene: Y2_22 Start: 13313, Stop: 17488, Start Num: 16

Candidate Starts for Y2_22:

(9, 13277), (Start: 16 @13313 has 58 MA's), (34, 13511), (85, 13751), (87, 13760), (103, 13853), (122, 13955), (131, 14000), (142, 14060), (158, 14138), (169, 14216), (183, 14303), (184, 14306), (190, 14336), (194, 14369), (200, 14393), (215, 14477), (221, 14507), (225, 14534), (246, 14642), (249, 14663), (251, 14675), (255, 14687), (265, 14741), (302, 14900), (308, 14921), (323, 15029), (342, 15149), (394, 15491), (400, 15509), (410, 15560), (412, 15569), (422, 15614), (426, 15635), (451, 15755), (469, 15854), (470, 15866), (474, 15875), (493, 15947), (502, 15998), (503, 16001), (510, 16028), (539, 16127), (545, 16145), (558, 16220), (597, 16409), (599, 16421), (623, 16496), (634, 16526), (654, 16682), (662, 16802), (670, 16910), (684, 17060), (700, 17180), (703, 17189), (705, 17192), (720, 17291), (726, 17318), (743, 17414), (751, 17477),

Gene: YoureAdopted_20 Start: 12049, Stop: 15885, Start Num: 15

Candidate Starts for YoureAdopted_20:

(Start: 15 @12049 has 162 MA's), (Start: 23 @12118 has 1 MA's), (Start: 24 @12139 has 1 MA's), (31, 12205), (59, 12382), (67, 12409), (84, 12481), (85, 12493), (87, 12502), (99, 12574), (110, 12649), (129, 12733), (131, 12742), (134, 12763), (142, 12802), (158, 12880), (169, 12958), (184, 13048), (196, 13123), (214, 13216), (216, 13225), (218, 13237), (220, 13246), (265, 13483), (275, 13522), (282, 13555), (302, 13642), (309, 13666), (323, 13750), (338, 13834), (341, 13846), (345, 13867), (400, 14023), (439, 14104), (450, 14152), (453, 14170), (456, 14191), (463, 14227), (475, 14278), (486, 14335), (502, 14413), (504, 14422), (526, 14500), (531, 14515), (539, 14557), (554, 14611), (599, 14851), (623, 14926), (651, 15037), (664, 15256), (666, 15268), (684, 15454), (685, 15463), (705, 15565), (710, 15586), (727, 15706), (738, 15778), (742, 15796), (743, 15802),

Gene: Yuna_21 Start: 11197, Stop: 15186, Start Num: 16

Candidate Starts for Yuna_21:

(Start: 16 @11197 has 58 MA's), (26, 11290), (48, 11458), (54, 11479), (63, 11515), (70, 11548), (71, 11551), (74, 11560), (80, 11584), (96, 11677), (98, 11689), (102, 11710), (145, 11926), (152, 11965), (155, 11980), (161, 12016), (168, 12076), (169, 12079), (178, 12121), (190, 12190), (222, 12376), (223, 12382), (224, 12385), (226, 12391), (232, 12418), (234, 12427), (236, 12439), (239, 12469), (250, 12529), (254, 12541), (256, 12547), (259, 12562), (262, 12580), (263, 12583), (266, 12601), (285, 12676), (300, 12739), (302, 12751), (308, 12772), (316, 12811), (337, 12856), (341, 12871), (360, 13033), (373, 13096), (378, 13123), (392, 13195), (400, 13234), (410, 13285), (412, 13294), (414, 13306), (421, 13336), (423, 13342), (428, 13366), (445, 13477), (450, 13495), (456, 13534), (475, 13621), (477, 13633), (502, 13762), (503, 13765), (526, 13849), (556, 13972), (599, 14200), (618, 14260), (623, 14275), (663, 14590), (677, 14722), (679, 14752), (683, 14791), (684, 14794), (687, 14812), (696, 14866), (705, 14896), (710, 14917), (727, 15028), (743, 15121),

Gene: Yunkel11_21 Start: 11016, Stop: 15143, Start Num: 16

Candidate Starts for Yunkel11_21:

(9, 10968), (Start: 16 @11016 has 58 MA's), (26, 11109), (42, 11241), (46, 11265), (53, 11295), (57, 11316), (60, 11328), (76, 11388), (91, 11475), (98, 11508), (101, 11526), (102, 11529), (114, 11601), (146, 11745), (152, 11787), (155, 11802), (161, 11838), (170, 11910), (190, 12012), (222, 12195), (228, 12222), (233, 12240), (234, 12246), (239, 12288), (254, 12360), (256, 12366), (259, 12381), (263, 12402), (266, 12420), (270, 12435), (281, 12483), (292, 12516), (295, 12531), (302, 12570), (308, 12591), (315, 12621), (343, 12789), (346, 12840), (373, 13005), (377, 13029), (388, 13086), (397, 13137), (404, 13170), (406, 13179), (423, 13251), (435, 13326), (438, 13344), (445, 13386), (450, 13404), (454, 13431), (456, 13443), (480, 13572), (487, 13590), (502, 13671), (503, 13674), (526, 13758), (538, 13812), (539, 13815), (558, 13908), (574, 13974), (599, 14109), (639, 14235), (676, 14631), (677, 14640), (684, 14712), (696, 14796), (727, 14964), (738, 15036), (743, 15060), (748, 15099),

Gene: Zabiza_21 Start: 12077, Stop: 15916, Start Num: 15

Candidate Starts for Zabiza_21:

(Start: 15 @12077 has 162 MA's), (Start: 23 @12146 has 1 MA's), (31, 12233), (59, 12410), (67, 12437), (84, 12509), (85, 12521), (87, 12530), (99, 12602), (110, 12677), (129, 12761), (131, 12770), (134, 12791), (142, 12830), (158, 12908), (169, 12986), (184, 13076), (196, 13151), (214, 13244), (216, 13253), (218, 13265), (220, 13274), (271, 13535), (275, 13550), (282, 13583), (302, 13670), (309, 13694), (323, 13778), (338, 13862), (341, 13874), (345, 13895), (400, 14051), (439, 14132), (450, 14180), (453, 14198), (456, 14219), (463, 14255), (475, 14306), (486, 14363), (502, 14441), (504, 14450), (526, 14528), (539, 14585), (554, 14639), (599, 14879), (623, 14954), (651, 15065), (664, 15284), (666, 15296), (684, 15485), (685, 15494), (696, 15566), (705, 15596), (710, 15617), (727, 15737), (738, 15809), (742, 15827), (743, 15833),

Gene: Zavala_21 Start: 12057, Stop: 15890, Start Num: 15

Candidate Starts for Zavala_21:

(Start: 15 @12057 has 162 MA's), (Start: 23 @12126 has 1 MA's), (31, 12213), (59, 12390), (67, 12417), (84, 12489), (85, 12501), (87, 12510), (99, 12582), (110, 12657), (129, 12741), (131, 12750), (134, 12771), (142, 12810), (158, 12888), (169, 12966), (184, 13056), (196, 13131), (214, 13224), (216, 13233), (218, 13245), (220, 13254), (265, 13491), (275, 13530), (282, 13563), (302, 13650), (309, 13674), (323, 13758), (338, 13842), (341, 13854), (345, 13875), (400, 14031), (450, 14160), (453, 14178), (456, 14199), (463, 14235), (475, 14286), (486, 14343), (502, 14421), (504, 14430), (526, 14508), (531, 14523), (539, 14565), (554, 14619), (599, 14859), (623, 14934), (651, 15045), (664, 15264), (666, 15276), (684, 15459), (685, 15468), (696, 15540), (705, 15570), (710, 15591), (727, 15711), (738, 15783), (742, 15801), (743, 15807),

Gene: ZoMa_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for ZoMa_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),

Gene: ZoeJ_17 Start: 10077, Stop: 13724, Start Num: 14

Candidate Starts for ZoeJ_17:

(Start: 14 @10077 has 31 MA's), (Start: 23 @10149 has 1 MA's), (66, 10383), (70, 10398), (97, 10515), (99, 10527), (110, 10602), (131, 10695), (158, 10833), (159, 10836), (164, 10875), (169, 10911), (174, 10935), (177, 10944), (178, 10956), (181, 10980), (184, 11001), (189, 11025), (190, 11031), (195, 11067), (196, 11076), (204, 11109), (206, 11121), (210, 11148), (248, 11331), (250, 11343), (252, 11349), (261, 11388), (265, 11412), (307, 11460), (311, 11472), (322, 11505), (355, 11736), (366, 11781), (373, 11811), (388, 11880), (393, 11907), (401, 11940), (427, 12027), (433, 12060), (437, 12081), (442, 12105), (447, 12135), (509, 12378), (536, 12471), (557, 12549), (586, 12672), (612, 12777), (671, 13188), (676, 13218), (677, 13227), (679, 13257), (727, 13554), (729, 13566), (743, 13647),

Gene: Zombie_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Zombie_16:

(Start: 15 @11464 has 162 MA's), (34, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (235, 12730), (248, 12814), (258, 12850), (265, 12895), (266, 12901), (293, 13009), (298, 13033), (302, 13054), (344, 13273), (362, 13423), (378, 13510), (399, 13618), (428, 13753), (445, 13864), (450, 13882), (455, 13912), (500, 14134), (507, 14158), (512, 14173), (517, 14194), (526, 14221), (534, 14248), (549, 14308), (566, 14398), (570, 14431), (587, 14494), (593, 14551), (599, 14584), (602, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (707, 15244), (728, 15325), (739, 15385), (743, 15403), (745, 15412),