



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 166489 Report

This analysis was run 07/09/24 on database version 566.

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

Pham number 166489 has 188 members, 26 are drafts.

Phages represented in each track:

- Track 1 : phiBT1_34
- Track 2 : Samora_3
- Track 3 : Lilbooboo_3
- Track 4 : Euratis_3
- Track 5 : Shawty_3
- Track 6 : Vash_3
- Track 7 : TG1_3
- Track 8 : RemusLoopin_3
- Track 9 : Heather_3
- Track 10 : Sebastisaurus_3
- Track 11 : BonaeVitae_4, Naby_4
- Track 12 : Hulk_4
- Track 13 : Niffler_4, Nobel_4, Slizam_4, Miaurora_4, JooneeDee_4, Lunatic_4, Trireme_4, TomBrady12_4, Clownery_4, Bintii_4, Cazares_4, PuffyCat_4, Stem_4, TinyTruffula_4, Yami_4
- Track 14 : Livingwater_4, Quaker_4, Sippinontea_4, Bodhi17_4, Wolfpack_4, KayPaulus_4
- Track 15 : SeaWolves_4, Majesty_4, Alucard_4, Goobery_4, EdElric_4, Erin_4, Baine_4, Minima_4, Lola20_4, ManAs_4, Jahseh_4, Yasuo_4, Eightball_4, Horacetta_4, Gabbspett_4, Gillker_4, Owens_4, Gardevoir_4, Aztec_4, Cayde6_4, Dooby_4, Jannah_4, Dongwon_4, TeddyBoy_4, LionelHutz_4, GoldenBlanche_4, Picnic_4, Sara_4, NeumannU_4, Slentz_4, Puddles3_4, PaoPu_4, BinkBonk_4, Anseraureola_4, Witch_4, Yubaba_4, BurtonThePup_4, BarBear_4, Pondwater_4, YertPhresh_4, Octopus_4, Chatham_4, Danimal_4, Scrunchy_4, JoBros_4, Ciel_4
- Track 16 : Luxx_4
- Track 17 : KillerTomato_4, Bri160_4, BoomRoasted_4
- Track 18 : Namsahir_4, Upsilon_4, PoRanda_4, MirimarMandM_4, Publix_4
- Track 19 : Scamander_4, RoscoWindex_4, Avvas_4, SantasSleigh_4, Otwor_4, LaviMo_4, Burgy_4, Danno_4, Josuke_4, Rhysand_4, Aries55_4, Cheesecake_4, Vanisius_4
- Track 20 : LemonPepper_4, JaimeB_4, Astro16_4, Rhogar_4, Hernandez44_4
- Track 21 : MrGreen_4, Leafy_4
- Track 22 : JRok_4

- Track 23 : Biscayne_4
- Track 24 : TimoTea_4
- Track 25 : McShie_4, BrokMonster_4
- Track 26 : Efeko_5
- Track 27 : Bradley2_4
- Track 28 : Ekko14_4, Elspeth_4, Noelani_4
- Track 29 : MasterPitts_4, DaftyDuck_4, Godfather_4, Sage7_4, Kojax4_4
- Track 30 : Concrete_4
- Track 31 : MelBee03_4, Kevanna_4
- Track 32 : HarperAnne_4
- Track 33 : Charbie_4, Maneater_4
- Track 34 : Belthelas_4
- Track 35 : Kaijohn_4
- Track 36 : Bullzi2019_4
- Track 37 : Oaklynn_4, Azizam_4
- Track 38 : VitulaEligans_4, Jerky_4
- Track 39 : Snuffles_5
- Track 40 : KyriosFaba_4
- Track 41 : Douggie_4
- Track 42 : Loca_4
- Track 43 : Ariel_11, Gonephishing_12, LittleE_11, Squint_12, Lucky2013_12
- Track 44 : Optimus_9, HokkenD_7, BAKA_8, Duke13_8, Bombitas_9, Phoebus_12, Ejimix_13, Minerva_11, Schatzie_10, Pound_11, EricMillard_12, Beem_12, Odette_11, Dove_10, NihilNomen_11, Hughesyang_11, DmpstrDiver_11, Klein_12, JuicyJay_13, Bobby_13, Bagrid_10, Zelink_12, Yeet_10, Kalah2_12, Wanda_12, Dallas_11, Halley_12, Thibault_8, Constella_7, ThreeRngTarjay_11, Redno2_11
- Track 45 : Omega_13
- Track 46 : Hannaconda_9, Porcelain_12, Courthouse_12, KashFlow_6, Superphikiman_12, MiaZeal_12
- Track 47 : Bipper_11, Cracklewink_11
- Track 48 : Hilltopfarm_11, Typha_11

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

The start number called the most often in the published annotations is 16, it was called in 97 of the 162 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alucard_4, Anseraureola_4, Aries55_4, Avvas_4, Aztec_4, Baine_4, BarBear_4, BinkBonk_4, Bintii_4, Biscayne_4, Bodhi17_4, BonaeVitae_4, BoomRoasted_4, Bradley2_4, Bri160_4, BrokMonster_4, Burgy_4, BurtonThePup_4, Cayde6_4, Cazares_4, Chatham_4, Cheesecake_4, Ciel_4, Clownery_4, Concrete_4, Danimal_4, Danno_4, Dongwon_4, Dooby_4, EdElric_4, Efeko_5, Eightball_4, Ekko14_4, Elspeth_4, Erin_4, Gabbspett_4, Gardevoir_4, Gillker_4, GoldenBlanche_4, Goobery_4, Horacetta_4, JRok_4, Jahseh_4, Jannah_4, Jerky_4, JoBros_4, JooneeDee_4, Josuke_4, Kaijohn_4, KayPaulus_4, Kevanna_4, KillerTomato_4, KyriosFaba_4, LaviMo_4, Leafy_4, LionelHutz_4, Livingwater_4, Loca_4, Lola20_4, Lunatic_4, Majesty_4, ManAs_4, McShie_4, MelBee03_4, Miaurora_4, Minima_4, MirimarMandM_4, MrGreen_4, Naby_4, Namsahir_4, NeumannU_4, Niffler_4, Nobel_4, Noelani_4, Octopus_4, Otwor_4, Owens_4,

PaoPu_4, Picnic_4, PoRanda_4, Pondwater_4, Publix_4, Puddles3_4, PuffyCat_4, Quaker_4, Rhysand_4, RoscoWindex_4, SantasSleigh_4, Sara_4, Scamander_4, Scrunchy_4, SeaWolves_4, Sippinontea_4, Slentz_4, Slizam_4, Snuffles_5, Stem_4, TeddyBoy_4, TimoTea_4, TinyTruffula_4, TomBrady12_4, Trireme_4, Upsilon_4, Vanisius_4, VitulaEligans_4, Witch_4, Wolfpack_4, Yami_4, Yasuo_4, YertPhresh_4, Yubaba_4,

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

- Astro16_4, Azizam_4, Belthelas_4, Bullzi2019_4, Charbie_4, DaftyDuck_4, Duggie_4, Godfather_4, HarperAnne_4, Hernandez44_4, Hulk_4, JaimeB_4, Kojax4_4, LemonPepper_4, Luxx_4, Maneater_4, MasterPitts_4, Oaklynn_4, Rhogar_4, Sage7_4,

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

- Ariel_11, BAKA_8, Bagrid_10, Beem_12, Bipper_11, Bobby_13, Bombitas_9, Constella_7, Courthouse_12, Cracklewink_11, Dallas_11, DmpstrDiver_11, Dove_10, Duke13_8, Ejimix_13, EricMillard_12, Euratis_3, Gonephishing_12, Halley_12, Hannaconda_9, Heather_3, Hilltopfarm_11, HokkenD_7, Hughesyang_11, JuicyJay_13, Kalah2_12, KashFlow_6, Klein_12, Lilbooboo_3, LittleE_11, Lucky2013_12, MiaZeal_12, Minerva_11, NihilNomen_11, Odette_11, Omega_13, Optimus_9, Phoebus_12, Porcelain_12, Pound_11, Redno2_11, RemusLoopin_3, Samora_3, Schatzie_10, Sebastisaurus_3, Shawty_3, Squint_12, Superphikiman_12, TG1_3, Thibault_8, ThreeRngTarjay_11, Typha_11, Vash_3, Wanda_12, Yeet_10, Zelink_12, phiBT1_34,

Summary by start number:

Start 8:

- Found in 57 of 188 (30.3%) of genes in pham
- Manual Annotations of this start: 51 of 162
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ariel_11 (J), BAKA_8 (J), Bagrid_10 (J), Beem_12 (J), Bipper_11 (Y), Bobby_13 (J), Bombitas_9 (J), Constella_7 (J), Courthouse_12 (J), Cracklewink_11 (Y), Dallas_11 (J), DmpstrDiver_11 (J), Dove_10 (J), Duke13_8 (J), Ejimix_13 (J), EricMillard_12 (J), Euratis_3 (BB1), Gonephishing_12 (J), Halley_12 (J), Hannaconda_9 (J), Heather_3 (BB2), Hilltopfarm_11 (Y), HokkenD_7 (J), Hughesyang_11 (J), JuicyJay_13 (J), Kalah2_12 (J), KashFlow_6 (J), Klein_12 (J), Lilbooboo_3 (BB1), LittleE_11 (J), Lucky2013_12 (J), MiaZeal_12 (J), Minerva_11 (J), NihilNomen_11 (J), Odette_11 (J), Omega_13 (J), Optimus_9 (J), Phoebus_12 (J), Porcelain_12 (J), Pound_11 (J), Redno2_11 (J), RemusLoopin_3 (BB2), Samora_3 (BB1), Schatzie_10 (J), Sebastisaurus_3 (BB2), Shawty_3 (BB1), Squint_12 (J), Superphikiman_12 (J), TG1_3 (BB1), Thibault_8 (J), ThreeRngTarjay_11 (J), Typha_11 (Y), Vash_3 (BB1), Wanda_12 (J), Yeet_10 (J), Zelink_12 (J), phiBT1_34 (BB1),

Start 9:

- Found in 19 of 188 (10.1%) of genes in pham
- Manual Annotations of this start: 1 of 162
- Called 5.3% of time when present
- Phage (with cluster) where this start called: Duggie_4 (EE),

Start 16:

- Found in 131 of 188 (69.7%) of genes in pham

- Manual Annotations of this start: 97 of 162
- Called 84.7% of time when present
- Phage (with cluster) where this start called: Alucard_4 (EE), Anseraureola_4 (EE), Aries55_4 (EE), Avvas_4 (EE), Aztec_4 (EE), Baine_4 (EE), BarBear_4 (EE), BinkBonk_4 (EE), Bintii_4 (EE), Biscayne_4 (EE), Bodhi17_4 (EE), BonaeVitae_4 (EE), BoomRoasted_4 (EE), Bradley2_4 (EE), Bri160_4 (EE), BrokMonster_4 (EE), Burgy_4 (EE), BurtonThePup_4 (EE), Cayde6_4 (EE), Cazares_4 (EE), Chatham_4 (EE), Cheesecake_4 (EE), Ciel_4 (EE), Clownery_4 (EE), Concrete_4 (EE), Danimal_4 (EE), Danno_4 (EE), Dongwon_4 (EE), Dooby_4 (EE), EdElric_4 (EE), Efeko_5 (EE), Eightball_4 (EE), Ekko14_4 (EE), Elspeth_4 (EE), Erin_4 (EE), Gabbspett_4 (EE), Gardevoir_4 (EE), Gillker_4 (EE), GoldenBlanche_4 (EE), Goobery_4 (EE), Horacetta_4 (EE), JRok_4 (EE), Jahseh_4 (EE), Jannah_4 (EE), Jerky_4 (EE), JoBros_4 (EE), JooneeDee_4 (EE), Josuke_4 (EE), Kaijohn_4 (EE), KayPaulus_4 (EE), Kevanna_4 (EE), KillerTomato_4 (EE), KyriosFaba_4 (EE), LaviMo_4 (EE), Leafy_4 (EE), LionelHutz_4 (EE), Livingwater_4 (EE), Loca_4 (EE), Lola20_4 (EE), Lunatic_4 (EE), Majesty_4 (EE), ManAs_4 (EE), McShie_4 (EE), MelBee03_4 (EE), Miaurora_4 (EE), Minima_4 (EE), MirimarMandM_4 (EE), MrGreen_4 (EE), Naby_4 (EE), Namsahir_4 (EE), NeumannU_4 (EE), Niffler_4 (EE), Nobel_4 (EE), Noelani_4 (EE), Octopus_4 (EE), Otwor_4 (EE), Owens_4 (EE), PaoPu_4 (EE), Picnic_4 (EE), PoRanda_4 (EE), Pondwater_4 (EE), Publix_4 (EE), Puddles3_4 (EE), PuffyCat_4 (EE), Quaker_4 (EE), Rhysand_4 (EE), RoscoWindex_4 (EE), SantasSleigh_4 (EE), Sara_4 (EE), Scamander_4 (EE), Scrunchy_4 (EE), SeaWolves_4 (EE), Sippinontea_4 (EE), Slentz_4 (EE), Slizam_4 (EE), Snuffles_5 (EE), Stem_4 (EE), TeddyBoy_4 (EE), TimoTea_4 (EE), TinyTruffula_4 (EE), TomBrady12_4 (EE), Trireme_4 (EE), Upsilon_4 (EE), Vanisius_4 (EE), VitulaEligans_4 (EE), Witch_4 (EE), Wolfpack_4 (EE), Yami_4 (EE), Yasuo_4 (EE), YertPhresh_4 (EE), Yubaba_4 (EE),

Start 25:

- Found in 62 of 188 (33.0%) of genes in pham
- Manual Annotations of this start: 2 of 162
- Called 8.1% of time when present
- Phage (with cluster) where this start called: DaftyDuck_4 (EE), Godfather_4 (EE), Kojax4_4 (EE), MasterPitts_4 (EE), Sage7_4 (EE),

Start 27:

- Found in 130 of 188 (69.1%) of genes in pham
- Manual Annotations of this start: 11 of 162
- Called 10.8% of time when present
- Phage (with cluster) where this start called: Astro16_4 (EE), Azizam_4 (EE), Belthelas_4 (EE), Bullzi2019_4 (EE), Charbie_4 (EE), HarperAnne_4 (EE), Hernandez44_4 (EE), Hulk_4 (EE), JaimeB_4 (EE), LemonPepper_4 (EE), Luxx_4 (EE), Maneater_4 (EE), Oaklynn_4 (EE), Rhogar_4 (EE),

Summary by clusters:

There are 5 clusters represented in this pham: EE, Y, J, BB2, BB1,

Info for manual annotations of cluster BB1:

- Start number 8 was manually annotated 5 times for cluster BB1.

Info for manual annotations of cluster BB2:

- Start number 8 was manually annotated 3 times for cluster BB2.

Info for manual annotations of cluster EE:

- Start number 9 was manually annotated 1 time for cluster EE.
- Start number 16 was manually annotated 97 times for cluster EE.
- Start number 25 was manually annotated 2 times for cluster EE.
- Start number 27 was manually annotated 11 times for cluster EE.

Info for manual annotations of cluster J:

- Start number 8 was manually annotated 39 times for cluster J.

Info for manual annotations of cluster Y:

- Start number 8 was manually annotated 4 times for cluster Y.

Gene Information:

Gene: Alucard_4 Start: 2660, Stop: 3787, Start Num: 16

Candidate Starts for Alucard_4:

(Start: 16 @2660 has 97 MA's), (21, 2729), (Start: 27 @2771 has 11 MA's), (30, 2795), (34, 2870), (42, 2942), (43, 2945), (44, 2951), (47, 2984), (54, 3020), (71, 3113), (72, 3116), (79, 3167), (83, 3245), (84, 3257), (91, 3299), (97, 3350), (103, 3431), (107, 3473), (113, 3554), (128, 3704),

Gene: Anseraureola_4 Start: 2683, Stop: 3810, Start Num: 16

Candidate Starts for Anseraureola_4:

(Start: 16 @2683 has 97 MA's), (21, 2752), (Start: 27 @2794 has 11 MA's), (30, 2818), (34, 2893), (42, 2965), (43, 2968), (44, 2974), (47, 3007), (54, 3043), (71, 3136), (72, 3139), (79, 3190), (83, 3268), (84, 3280), (91, 3322), (97, 3373), (103, 3454), (107, 3496), (113, 3577), (128, 3727),

Gene: Ariel_11 Start: 4635, Stop: 5864, Start Num: 8

Candidate Starts for Ariel_11:

(Start: 8 @4635 has 51 MA's), (22, 4728), (26, 4761), (40, 4932), (41, 4935), (42, 4938), (53, 5016), (72, 5127), (75, 5148), (77, 5163), (78, 5169), (87, 5283), (90, 5304), (97, 5361), (98, 5364), (105, 5457), (107, 5481), (110, 5547), (121, 5658), (124, 5685), (132, 5769), (134, 5778), (137, 5802),

Gene: Aries55_4 Start: 2671, Stop: 3798, Start Num: 16

Candidate Starts for Aries55_4:

(Start: 16 @2671 has 97 MA's), (21, 2740), (Start: 25 @2776 has 2 MA's), (Start: 27 @2782 has 11 MA's), (30, 2806), (34, 2881), (42, 2953), (43, 2956), (44, 2962), (47, 2995), (54, 3031), (71, 3124), (72, 3127), (79, 3178), (83, 3256), (84, 3268), (91, 3310), (97, 3361), (103, 3442), (107, 3484), (113, 3565), (128, 3715),

Gene: Astro16_4 Start: 2782, Stop: 3798, Start Num: 27

Candidate Starts for Astro16_4:

(Start: 16 @2671 has 97 MA's), (21, 2740), (Start: 27 @2782 has 11 MA's), (30, 2806), (34, 2881), (42, 2953), (43, 2956), (44, 2962), (47, 2995), (54, 3031), (71, 3124), (72, 3127), (79, 3178), (83, 3256), (84, 3268), (91, 3310), (97, 3361), (103, 3442), (107, 3484), (113, 3565), (128, 3715),

Gene: Avvas_4 Start: 2671, Stop: 3798, Start Num: 16

Candidate Starts for Avvas_4:

(Start: 16 @2671 has 97 MA's), (21, 2740), (Start: 25 @2776 has 2 MA's), (Start: 27 @2782 has 11 MA's), (30, 2806), (34, 2881), (42, 2953), (43, 2956), (44, 2962), (47, 2995), (54, 3031), (71, 3124), (72, 3127), (79, 3178), (83, 3256), (84, 3268), (91, 3310), (97, 3361), (103, 3442), (107, 3484), (113,

3565), (128, 3715),

Gene: Azizam_4 Start: 2770, Stop: 3786, Start Num: 27

Candidate Starts for Azizam_4:

(13, 2644), (Start: 16 @2659 has 97 MA's), (21, 2728), (Start: 27 @2770 has 11 MA's), (30, 2794), (34, 2869), (42, 2941), (43, 2944), (44, 2950), (47, 2983), (54, 3019), (66, 3067), (71, 3112), (72, 3115), (79, 3166), (83, 3244), (84, 3256), (91, 3298), (96, 3346), (97, 3349), (101, 3400), (103, 3430), (107, 3472), (108, 3514), (113, 3553), (128, 3703),

Gene: Aztec_4 Start: 2659, Stop: 3786, Start Num: 16

Candidate Starts for Aztec_4:

(Start: 16 @2659 has 97 MA's), (21, 2728), (Start: 27 @2770 has 11 MA's), (30, 2794), (34, 2869), (42, 2941), (43, 2944), (44, 2950), (47, 2983), (54, 3019), (71, 3112), (72, 3115), (79, 3166), (83, 3244), (84, 3256), (91, 3298), (97, 3349), (103, 3430), (107, 3472), (113, 3553), (128, 3703),

Gene: BAKA_8 Start: 5468, Stop: 6691, Start Num: 8

Candidate Starts for BAKA_8:

(Start: 8 @5468 has 51 MA's), (26, 5594), (40, 5765), (42, 5771), (53, 5849), (72, 5954), (76, 5987), (77, 5990), (78, 5996), (81, 6038), (82, 6059), (97, 6188), (98, 6191), (105, 6284), (107, 6308), (117, 6419), (130, 6566), (134, 6605), (135, 6614), (137, 6629),

Gene: Bagrid_10 Start: 5265, Stop: 6488, Start Num: 8

Candidate Starts for Bagrid_10:

(Start: 8 @5265 has 51 MA's), (26, 5391), (40, 5562), (42, 5568), (53, 5646), (72, 5751), (76, 5784), (77, 5787), (78, 5793), (81, 5835), (82, 5856), (97, 5985), (98, 5988), (105, 6081), (107, 6105), (117, 6216), (130, 6363), (134, 6402), (135, 6411), (137, 6426),

Gene: Baine_4 Start: 2656, Stop: 3783, Start Num: 16

Candidate Starts for Baine_4:

(Start: 16 @2656 has 97 MA's), (21, 2725), (Start: 27 @2767 has 11 MA's), (30, 2791), (34, 2866), (42, 2938), (43, 2941), (44, 2947), (47, 2980), (54, 3016), (71, 3109), (72, 3112), (79, 3163), (83, 3241), (84, 3253), (91, 3295), (97, 3346), (103, 3427), (107, 3469), (113, 3550), (128, 3700),

Gene: BarBear_4 Start: 2671, Stop: 3798, Start Num: 16

Candidate Starts for BarBear_4:

(Start: 16 @2671 has 97 MA's), (21, 2740), (Start: 27 @2782 has 11 MA's), (30, 2806), (34, 2881), (42, 2953), (43, 2956), (44, 2962), (47, 2995), (54, 3031), (71, 3124), (72, 3127), (79, 3178), (83, 3256), (84, 3268), (91, 3310), (97, 3361), (103, 3442), (107, 3484), (113, 3565), (128, 3715),

Gene: Beem_12 Start: 5831, Stop: 7054, Start Num: 8

Candidate Starts for Beem_12:

(Start: 8 @5831 has 51 MA's), (26, 5957), (40, 6128), (42, 6134), (53, 6212), (72, 6317), (76, 6350), (77, 6353), (78, 6359), (81, 6401), (82, 6422), (97, 6551), (98, 6554), (105, 6647), (107, 6671), (117, 6782), (130, 6929), (134, 6968), (135, 6977), (137, 6992),

Gene: Belthelas_4 Start: 2821, Stop: 3837, Start Num: 27

Candidate Starts for Belthelas_4:

(Start: 16 @2710 has 97 MA's), (21, 2779), (Start: 25 @2815 has 2 MA's), (Start: 27 @2821 has 11 MA's), (30, 2845), (34, 2920), (42, 2992), (43, 2995), (44, 3001), (47, 3034), (54, 3070), (71, 3163), (72, 3166), (79, 3217), (83, 3295), (84, 3307), (91, 3349), (96, 3397), (97, 3400), (101, 3451), (103, 3481), (107, 3523), (113, 3604), (128, 3754),

Gene: BinkBonk_4 Start: 2671, Stop: 3798, Start Num: 16

Candidate Starts for BinkBonk_4:

(Start: 16 @2671 has 97 MA's), (21, 2740), (Start: 27 @2782 has 11 MA's), (30, 2806), (34, 2881), (42, 2953), (43, 2956), (44, 2962), (47, 2995), (54, 3031), (71, 3124), (72, 3127), (79, 3178), (83, 3256), (84, 3268), (91, 3310), (97, 3361), (103, 3442), (107, 3484), (113, 3565), (128, 3715),

Gene: Bintii_4 Start: 2689, Stop: 3816, Start Num: 16

Candidate Starts for Bintii_4:

(Start: 16 @2689 has 97 MA's), (21, 2758), (Start: 25 @2794 has 2 MA's), (Start: 27 @2800 has 11 MA's), (30, 2824), (34, 2899), (42, 2971), (43, 2974), (44, 2980), (47, 3013), (54, 3049), (71, 3142), (72, 3145), (79, 3196), (83, 3274), (84, 3286), (91, 3328), (97, 3379), (103, 3460), (107, 3502), (110, 3568), (113, 3583), (128, 3733),

Gene: Bipper_11 Start: 6524, Stop: 7870, Start Num: 8

Candidate Starts for Bipper_11:

(Start: 8 @6524 has 51 MA's), (22, 6623), (26, 6656), (30, 6683), (31, 6689), (35, 6761), (40, 6830), (42, 6836), (50, 6920), (53, 6935), (64, 6989), (67, 7007), (72, 7049), (78, 7091), (80, 7127), (84, 7190), (93, 7238), (104, 7373), (105, 7379), (107, 7403), (112, 7481), (115, 7496), (116, 7511), (132, 7694), (134, 7703), (135, 7712),

Gene: Biscayne_4 Start: 2687, Stop: 3844, Start Num: 16

Candidate Starts for Biscayne_4:

(Start: 9 @2660 has 1 MA's), (Start: 16 @2687 has 97 MA's), (21, 2756), (Start: 25 @2792 has 2 MA's), (Start: 27 @2798 has 11 MA's), (30, 2822), (34, 2897), (42, 2969), (43, 2972), (44, 2978), (47, 3011), (51, 3032), (54, 3047), (60, 3065), (71, 3140), (72, 3143), (79, 3194), (83, 3272), (84, 3284), (91, 3326), (96, 3374), (97, 3377), (101, 3428), (103, 3458), (107, 3500), (110, 3566), (113, 3581), (128, 3731),

Gene: Bobby_13 Start: 5558, Stop: 6781, Start Num: 8

Candidate Starts for Bobby_13:

(Start: 8 @5558 has 51 MA's), (26, 5684), (40, 5855), (42, 5861), (53, 5939), (72, 6044), (76, 6077), (77, 6080), (78, 6086), (81, 6128), (82, 6149), (97, 6278), (98, 6281), (105, 6374), (107, 6398), (117, 6509), (130, 6656), (134, 6695), (135, 6704), (137, 6719),

Gene: Bodhi17_4 Start: 2656, Stop: 3783, Start Num: 16

Candidate Starts for Bodhi17_4:

(Start: 9 @2629 has 1 MA's), (Start: 16 @2656 has 97 MA's), (21, 2725), (Start: 25 @2761 has 2 MA's), (Start: 27 @2767 has 11 MA's), (30, 2791), (34, 2866), (42, 2938), (43, 2941), (44, 2947), (47, 2980), (54, 3016), (66, 3064), (71, 3109), (72, 3112), (79, 3163), (83, 3241), (84, 3253), (91, 3295), (97, 3346), (103, 3427), (107, 3469), (113, 3550), (128, 3700),

Gene: Bombitas_9 Start: 5140, Stop: 6363, Start Num: 8

Candidate Starts for Bombitas_9:

(Start: 8 @5140 has 51 MA's), (26, 5266), (40, 5437), (42, 5443), (53, 5521), (72, 5626), (76, 5659), (77, 5662), (78, 5668), (81, 5710), (82, 5731), (97, 5860), (98, 5863), (105, 5956), (107, 5980), (117, 6091), (130, 6238), (134, 6277), (135, 6286), (137, 6301),

Gene: BonaeVitae_4 Start: 2373, Stop: 3533, Start Num: 16

Candidate Starts for BonaeVitae_4:

(12, 2355), (15, 2364), (Start: 16 @2373 has 97 MA's), (Start: 27 @2484 has 11 MA's), (30, 2508), (35, 2586), (42, 2655), (44, 2664), (47, 2697), (66, 2781), (72, 2829), (83, 2958), (84, 2970), (89, 3003), (95, 3057), (97, 3063), (101, 3114), (107, 3186), (110, 3252), (113, 3267), (127, 3411), (128, 3417),

Gene: BoomRoasted_4 Start: 2710, Stop: 3837, Start Num: 16

Candidate Starts for BoomRoasted_4:

(Start: 9 @2683 has 1 MA's), (Start: 16 @2710 has 97 MA's), (21, 2779), (Start: 25 @2815 has 2 MA's), (Start: 27 @2821 has 11 MA's), (30, 2845), (34, 2920), (42, 2992), (43, 2995), (44, 3001), (47, 3034), (54, 3070), (66, 3118), (71, 3163), (72, 3166), (79, 3217), (83, 3295), (84, 3307), (91, 3349), (96, 3397), (97, 3400), (101, 3451), (103, 3481), (107, 3523), (113, 3604), (128, 3754),

Gene: Bradley2_4 Start: 2659, Stop: 3786, Start Num: 16

Candidate Starts for Bradley2_4:

(Start: 16 @2659 has 97 MA's), (21, 2728), (Start: 27 @2770 has 11 MA's), (30, 2794), (34, 2869), (36, 2887), (42, 2941), (43, 2944), (44, 2950), (47, 2983), (54, 3019), (71, 3112), (72, 3115), (79, 3166), (83, 3244), (84, 3256), (91, 3298), (97, 3349), (103, 3430), (107, 3472), (113, 3553), (128, 3703),

Gene: Bri160_4 Start: 2710, Stop: 3837, Start Num: 16

Candidate Starts for Bri160_4:

(Start: 9 @2683 has 1 MA's), (Start: 16 @2710 has 97 MA's), (21, 2779), (Start: 25 @2815 has 2 MA's), (Start: 27 @2821 has 11 MA's), (30, 2845), (34, 2920), (42, 2992), (43, 2995), (44, 3001), (47, 3034), (54, 3070), (66, 3118), (71, 3163), (72, 3166), (79, 3217), (83, 3295), (84, 3307), (91, 3349), (96, 3397), (97, 3400), (101, 3451), (103, 3481), (107, 3523), (113, 3604), (128, 3754),

Gene: BrokMonster_4 Start: 2656, Stop: 3783, Start Num: 16

Candidate Starts for BrokMonster_4:

(13, 2641), (Start: 16 @2656 has 97 MA's), (21, 2725), (Start: 27 @2767 has 11 MA's), (30, 2791), (34, 2866), (42, 2938), (43, 2941), (44, 2947), (47, 2980), (54, 3016), (66, 3064), (71, 3109), (72, 3112), (79, 3163), (83, 3241), (84, 3253), (91, 3295), (96, 3343), (97, 3346), (103, 3427), (107, 3469), (108, 3511), (113, 3550), (128, 3700),

Gene: Bullzi2019_4 Start: 2791, Stop: 3807, Start Num: 27

Candidate Starts for Bullzi2019_4:

(Start: 16 @2680 has 97 MA's), (21, 2749), (Start: 25 @2785 has 2 MA's), (Start: 27 @2791 has 11 MA's), (30, 2815), (34, 2890), (42, 2962), (43, 2965), (44, 2971), (47, 3004), (54, 3040), (71, 3133), (72, 3136), (79, 3187), (83, 3265), (84, 3277), (91, 3319), (97, 3370), (103, 3451), (107, 3493), (110, 3559), (113, 3574), (128, 3724),

Gene: Burgy_4 Start: 2671, Stop: 3798, Start Num: 16

Candidate Starts for Burgy_4:

(Start: 16 @2671 has 97 MA's), (21, 2740), (Start: 25 @2776 has 2 MA's), (Start: 27 @2782 has 11 MA's), (30, 2806), (34, 2881), (42, 2953), (43, 2956), (44, 2962), (47, 2995), (54, 3031), (71, 3124), (72, 3127), (79, 3178), (83, 3256), (84, 3268), (91, 3310), (97, 3361), (103, 3442), (107, 3484), (113, 3565), (128, 3715),

Gene: BurtonThePup_4 Start: 2671, Stop: 3798, Start Num: 16

Candidate Starts for BurtonThePup_4:

(Start: 16 @2671 has 97 MA's), (21, 2740), (Start: 27 @2782 has 11 MA's), (30, 2806), (34, 2881), (42, 2953), (43, 2956), (44, 2962), (47, 2995), (54, 3031), (71, 3124), (72, 3127), (79, 3178), (83, 3256), (84, 3268), (91, 3310), (97, 3361), (103, 3442), (107, 3484), (113, 3565), (128, 3715),

Gene: Cayde6_4 Start: 2656, Stop: 3783, Start Num: 16

Candidate Starts for Cayde6_4:

(Start: 16 @2656 has 97 MA's), (21, 2725), (Start: 27 @2767 has 11 MA's), (30, 2791), (34, 2866), (42, 2938), (43, 2941), (44, 2947), (47, 2980), (54, 3016), (71, 3109), (72, 3112), (79, 3163), (83, 3241), (84, 3253), (91, 3295), (97, 3346), (103, 3427), (107, 3469), (113, 3550), (128, 3700),

Gene: Cazares_4 Start: 2647, Stop: 3774, Start Num: 16

Candidate Starts for Cazares_4:

(Start: 16 @2647 has 97 MA's), (21, 2716), (Start: 25 @2752 has 2 MA's), (Start: 27 @2758 has 11 MA's), (30, 2782), (34, 2857), (42, 2929), (43, 2932), (44, 2938), (47, 2971), (54, 3007), (71, 3100), (72, 3103), (79, 3154), (83, 3232), (84, 3244), (91, 3286), (97, 3337), (103, 3418), (107, 3460), (110, 3526), (113, 3541), (128, 3691),

Gene: Charbie_4 Start: 2758, Stop: 3774, Start Num: 27

Candidate Starts for Charbie_4:

(Start: 16 @2647 has 97 MA's), (21, 2716), (Start: 27 @2758 has 11 MA's), (30, 2782), (34, 2857), (42, 2929), (43, 2932), (44, 2938), (47, 2971), (54, 3007), (71, 3100), (72, 3103), (79, 3154), (83, 3232), (84, 3244), (91, 3286), (97, 3337), (101, 3388), (103, 3418), (107, 3460), (113, 3541), (128, 3691),

Gene: Chatham_4 Start: 2659, Stop: 3786, Start Num: 16

Candidate Starts for Chatham_4:

(Start: 16 @2659 has 97 MA's), (21, 2728), (Start: 27 @2770 has 11 MA's), (30, 2794), (34, 2869), (42, 2941), (43, 2944), (44, 2950), (47, 2983), (54, 3019), (71, 3112), (72, 3115), (79, 3166), (83, 3244), (84, 3256), (91, 3298), (97, 3349), (103, 3430), (107, 3472), (113, 3553), (128, 3703),

Gene: Cheesecake_4 Start: 2671, Stop: 3798, Start Num: 16

Candidate Starts for Cheesecake_4:

(Start: 16 @2671 has 97 MA's), (21, 2740), (Start: 25 @2776 has 2 MA's), (Start: 27 @2782 has 11 MA's), (30, 2806), (34, 2881), (42, 2953), (43, 2956), (44, 2962), (47, 2995), (54, 3031), (71, 3124), (72, 3127), (79, 3178), (83, 3256), (84, 3268), (91, 3310), (97, 3361), (103, 3442), (107, 3484), (113, 3565), (128, 3715),

Gene: Ciel_4 Start: 2671, Stop: 3798, Start Num: 16

Candidate Starts for Ciel_4:

(Start: 16 @2671 has 97 MA's), (21, 2740), (Start: 27 @2782 has 11 MA's), (30, 2806), (34, 2881), (42, 2953), (43, 2956), (44, 2962), (47, 2995), (54, 3031), (71, 3124), (72, 3127), (79, 3178), (83, 3256), (84, 3268), (91, 3310), (97, 3361), (103, 3442), (107, 3484), (113, 3565), (128, 3715),

Gene: Clownery_4 Start: 2764, Stop: 3891, Start Num: 16

Candidate Starts for Clownery_4:

(Start: 16 @2764 has 97 MA's), (21, 2833), (Start: 25 @2869 has 2 MA's), (Start: 27 @2875 has 11 MA's), (30, 2899), (34, 2974), (42, 3046), (43, 3049), (44, 3055), (47, 3088), (54, 3124), (71, 3217), (72, 3220), (79, 3271), (83, 3349), (84, 3361), (91, 3403), (97, 3454), (103, 3535), (107, 3577), (110, 3643), (113, 3658), (128, 3808),

Gene: Concrete_4 Start: 2710, Stop: 3837, Start Num: 16

Candidate Starts for Concrete_4:

(Start: 9 @2683 has 1 MA's), (Start: 16 @2710 has 97 MA's), (21, 2779), (Start: 27 @2821 has 11 MA's), (30, 2845), (34, 2920), (42, 2992), (43, 2995), (44, 3001), (47, 3034), (54, 3070), (71, 3163), (72, 3166), (79, 3217), (83, 3295), (84, 3307), (91, 3349), (96, 3397), (97, 3400), (101, 3451), (103, 3481), (107, 3523), (113, 3604), (128, 3754),

Gene: Constella_7 Start: 4649, Stop: 5872, Start Num: 8

Candidate Starts for Constella_7:

(Start: 8 @4649 has 51 MA's), (26, 4775), (40, 4946), (42, 4952), (53, 5030), (72, 5135), (76, 5168), (77, 5171), (78, 5177), (81, 5219), (82, 5240), (97, 5369), (98, 5372), (105, 5465), (107, 5489), (117, 5600), (130, 5747), (134, 5786), (135, 5795), (137, 5810),

Gene: Courthouse_12 Start: 5434, Stop: 6669, Start Num: 8

Candidate Starts for Courthouse_12:

(Start: 8 @5434 has 51 MA's), (32, 5620), (37, 5689), (40, 5737), (42, 5743), (53, 5821), (72, 5929), (76, 5962), (77, 5965), (78, 5971), (87, 6085), (90, 6106), (97, 6163), (98, 6166), (105, 6259), (107, 6283), (109, 6334), (110, 6349), (113, 6364), (127, 6508), (134, 6580), (135, 6589),

Gene: Cracklewink_11 Start: 6524, Stop: 7870, Start Num: 8

Candidate Starts for Cracklewink_11:

(Start: 8 @6524 has 51 MA's), (22, 6623), (26, 6656), (30, 6683), (31, 6689), (35, 6761), (40, 6830), (42, 6836), (50, 6920), (53, 6935), (64, 6989), (67, 7007), (72, 7049), (78, 7091), (80, 7127), (84, 7190), (93, 7238), (104, 7373), (105, 7379), (107, 7403), (112, 7481), (115, 7496), (116, 7511), (132, 7694), (134, 7703), (135, 7712),

Gene: DaftyDuck_4 Start: 2776, Stop: 3798, Start Num: 25

Candidate Starts for DaftyDuck_4:

(Start: 16 @2671 has 97 MA's), (21, 2740), (Start: 25 @2776 has 2 MA's), (Start: 27 @2782 has 11 MA's), (30, 2806), (34, 2881), (42, 2953), (43, 2956), (44, 2962), (47, 2995), (54, 3031), (71, 3124), (72, 3127), (79, 3178), (83, 3256), (84, 3268), (91, 3310), (97, 3361), (103, 3442), (107, 3484), (113, 3565), (128, 3715),

Gene: Dallas_11 Start: 5370, Stop: 6593, Start Num: 8

Candidate Starts for Dallas_11:

(Start: 8 @5370 has 51 MA's), (26, 5496), (40, 5667), (42, 5673), (53, 5751), (72, 5856), (76, 5889), (77, 5892), (78, 5898), (81, 5940), (82, 5961), (97, 6090), (98, 6093), (105, 6186), (107, 6210), (117, 6321), (130, 6468), (134, 6507), (135, 6516), (137, 6531),

Gene: Danimal_4 Start: 2659, Stop: 3786, Start Num: 16

Candidate Starts for Danimal_4:

(Start: 16 @2659 has 97 MA's), (21, 2728), (Start: 27 @2770 has 11 MA's), (30, 2794), (34, 2869), (42, 2941), (43, 2944), (44, 2950), (47, 2983), (54, 3019), (71, 3112), (72, 3115), (79, 3166), (83, 3244), (84, 3256), (91, 3298), (97, 3349), (103, 3430), (107, 3472), (113, 3553), (128, 3703),

Gene: Danno_4 Start: 2671, Stop: 3798, Start Num: 16

Candidate Starts for Danno_4:

(Start: 16 @2671 has 97 MA's), (21, 2740), (Start: 25 @2776 has 2 MA's), (Start: 27 @2782 has 11 MA's), (30, 2806), (34, 2881), (42, 2953), (43, 2956), (44, 2962), (47, 2995), (54, 3031), (71, 3124), (72, 3127), (79, 3178), (83, 3256), (84, 3268), (91, 3310), (97, 3361), (103, 3442), (107, 3484), (113, 3565), (128, 3715),

Gene: DmpstrDiver_11 Start: 6011, Stop: 7234, Start Num: 8

Candidate Starts for DmpstrDiver_11:

(Start: 8 @6011 has 51 MA's), (26, 6137), (40, 6308), (42, 6314), (53, 6392), (72, 6497), (76, 6530), (77, 6533), (78, 6539), (81, 6581), (82, 6602), (97, 6731), (98, 6734), (105, 6827), (107, 6851), (117, 6962), (130, 7109), (134, 7148), (135, 7157), (137, 7172),

Gene: Dongwon_4 Start: 2659, Stop: 3786, Start Num: 16

Candidate Starts for Dongwon_4:

(Start: 16 @2659 has 97 MA's), (21, 2728), (Start: 27 @2770 has 11 MA's), (30, 2794), (34, 2869), (42, 2941), (43, 2944), (44, 2950), (47, 2983), (54, 3019), (71, 3112), (72, 3115), (79, 3166), (83, 3244), (84, 3256), (91, 3298), (97, 3349), (103, 3430), (107, 3472), (113, 3553), (128, 3703),

Gene: Dooby_4 Start: 2659, Stop: 3786, Start Num: 16

Candidate Starts for Dooby_4:

(Start: 16 @2659 has 97 MA's), (21, 2728), (Start: 27 @2770 has 11 MA's), (30, 2794), (34, 2869), (42, 2941), (43, 2944), (44, 2950), (47, 2983), (54, 3019), (71, 3112), (72, 3115), (79, 3166), (83, 3244), (84, 3256), (91, 3298), (97, 3349), (103, 3430), (107, 3472), (113, 3553), (128, 3703),

Gene: Douggie_4 Start: 2629, Stop: 3783, Start Num: 9

Candidate Starts for Douggie_4:

(Start: 9 @2629 has 1 MA's), (Start: 16 @2656 has 97 MA's), (21, 2725), (Start: 25 @2761 has 2 MA's), (Start: 27 @2767 has 11 MA's), (30, 2791), (34, 2866), (42, 2938), (43, 2941), (44, 2947), (47, 2980), (54, 3016), (71, 3109), (72, 3112), (79, 3163), (83, 3241), (84, 3253), (91, 3295), (97, 3346), (103, 3427), (107, 3469), (113, 3550), (128, 3700),

Gene: Dove_10 Start: 5139, Stop: 6362, Start Num: 8

Candidate Starts for Dove_10:

(Start: 8 @5139 has 51 MA's), (26, 5265), (40, 5436), (42, 5442), (53, 5520), (72, 5625), (76, 5658), (77, 5661), (78, 5667), (81, 5709), (82, 5730), (97, 5859), (98, 5862), (105, 5955), (107, 5979), (117, 6090), (130, 6237), (134, 6276), (135, 6285), (137, 6300),

Gene: Duke13_8 Start: 5396, Stop: 6619, Start Num: 8

Candidate Starts for Duke13_8:

(Start: 8 @5396 has 51 MA's), (26, 5522), (40, 5693), (42, 5699), (53, 5777), (72, 5882), (76, 5915), (77, 5918), (78, 5924), (81, 5966), (82, 5987), (97, 6116), (98, 6119), (105, 6212), (107, 6236), (117, 6347), (130, 6494), (134, 6533), (135, 6542), (137, 6557),

Gene: EdElric_4 Start: 2659, Stop: 3786, Start Num: 16

Candidate Starts for EdElric_4:

(Start: 16 @2659 has 97 MA's), (21, 2728), (Start: 27 @2770 has 11 MA's), (30, 2794), (34, 2869), (42, 2941), (43, 2944), (44, 2950), (47, 2983), (54, 3019), (71, 3112), (72, 3115), (79, 3166), (83, 3244), (84, 3256), (91, 3298), (97, 3349), (103, 3430), (107, 3472), (113, 3553), (128, 3703),

Gene: Efeko_5 Start: 2520, Stop: 3692, Start Num: 16

Candidate Starts for Efeko_5:

(14, 2508), (Start: 16 @2520 has 97 MA's), (21, 2592), (22, 2598), (30, 2658), (42, 2805), (44, 2814), (55, 2886), (66, 2931), (72, 2979), (83, 3108), (96, 3210), (97, 3213), (103, 3294), (107, 3336), (113, 3417), (127, 3561), (128, 3567),

Gene: Eightball_4 Start: 2671, Stop: 3798, Start Num: 16

Candidate Starts for Eightball_4:

(Start: 16 @2671 has 97 MA's), (21, 2740), (Start: 27 @2782 has 11 MA's), (30, 2806), (34, 2881), (42, 2953), (43, 2956), (44, 2962), (47, 2995), (54, 3031), (71, 3124), (72, 3127), (79, 3178), (83, 3256), (84, 3268), (91, 3310), (97, 3361), (103, 3442), (107, 3484), (113, 3565), (128, 3715),

Gene: Ejimix_13 Start: 6581, Stop: 7804, Start Num: 8

Candidate Starts for Ejimix_13:

(Start: 8 @6581 has 51 MA's), (26, 6707), (40, 6878), (42, 6884), (53, 6962), (72, 7067), (76, 7100), (77, 7103), (78, 7109), (81, 7151), (82, 7172), (97, 7301), (98, 7304), (105, 7397), (107, 7421), (117, 7532), (130, 7679), (134, 7718), (135, 7727), (137, 7742),

Gene: Ekko14_4 Start: 2647, Stop: 3774, Start Num: 16

Candidate Starts for Ekko14_4:

(Start: 16 @2647 has 97 MA's), (21, 2716), (Start: 25 @2752 has 2 MA's), (Start: 27 @2758 has 11 MA's), (30, 2782), (34, 2857), (42, 2929), (43, 2932), (44, 2938), (47, 2971), (54, 3007), (71, 3100), (72, 3103), (79, 3154), (83, 3232), (84, 3244), (91, 3286), (97, 3337), (101, 3388), (103, 3418), (107,

3460), (110, 3526), (113, 3541), (128, 3691),

Gene: Elspeth_4 Start: 2647, Stop: 3774, Start Num: 16

Candidate Starts for Elspeth_4:

(Start: 16 @2647 has 97 MA's), (21, 2716), (Start: 25 @2752 has 2 MA's), (Start: 27 @2758 has 11 MA's), (30, 2782), (34, 2857), (42, 2929), (43, 2932), (44, 2938), (47, 2971), (54, 3007), (71, 3100), (72, 3103), (79, 3154), (83, 3232), (84, 3244), (91, 3286), (97, 3337), (101, 3388), (103, 3418), (107, 3460), (110, 3526), (113, 3541), (128, 3691),

Gene: EricMillard_12 Start: 6116, Stop: 7339, Start Num: 8

Candidate Starts for EricMillard_12:

(Start: 8 @6116 has 51 MA's), (26, 6242), (40, 6413), (42, 6419), (53, 6497), (72, 6602), (76, 6635), (77, 6638), (78, 6644), (81, 6686), (82, 6707), (97, 6836), (98, 6839), (105, 6932), (107, 6956), (117, 7067), (130, 7214), (134, 7253), (135, 7262), (137, 7277),

Gene: Erin_4 Start: 2659, Stop: 3786, Start Num: 16

Candidate Starts for Erin_4:

(Start: 16 @2659 has 97 MA's), (21, 2728), (Start: 27 @2770 has 11 MA's), (30, 2794), (34, 2869), (42, 2941), (43, 2944), (44, 2950), (47, 2983), (54, 3019), (71, 3112), (72, 3115), (79, 3166), (83, 3244), (84, 3256), (91, 3298), (97, 3349), (103, 3430), (107, 3472), (113, 3553), (128, 3703),

Gene: Euratis_3 Start: 2222, Stop: 3574, Start Num: 8

Candidate Starts for Euratis_3:

(6, 2192), (Start: 8 @2222 has 51 MA's), (20, 2300), (28, 2366), (30, 2387), (34, 2462), (38, 2510), (49, 2615), (55, 2645), (61, 2669), (65, 2699), (70, 2726), (73, 2768), (74, 2771), (83, 2882), (84, 2894), (88, 2915), (100, 3032), (106, 3104), (111, 3185), (119, 3284), (122, 3320), (129, 3371), (131, 3410), (133, 3428), (136, 3449),

Gene: Gabbspett_4 Start: 2761, Stop: 3888, Start Num: 16

Candidate Starts for Gabbspett_4:

(Start: 16 @2761 has 97 MA's), (21, 2830), (Start: 27 @2872 has 11 MA's), (30, 2896), (34, 2971), (42, 3043), (43, 3046), (44, 3052), (47, 3085), (54, 3121), (71, 3214), (72, 3217), (79, 3268), (83, 3346), (84, 3358), (91, 3400), (97, 3451), (103, 3532), (107, 3574), (113, 3655), (128, 3805),

Gene: Gardevoir_4 Start: 2660, Stop: 3787, Start Num: 16

Candidate Starts for Gardevoir_4:

(Start: 16 @2660 has 97 MA's), (21, 2729), (Start: 27 @2771 has 11 MA's), (30, 2795), (34, 2870), (42, 2942), (43, 2945), (44, 2951), (47, 2984), (54, 3020), (71, 3113), (72, 3116), (79, 3167), (83, 3245), (84, 3257), (91, 3299), (97, 3350), (103, 3431), (107, 3473), (113, 3554), (128, 3704),

Gene: Gillker_4 Start: 2659, Stop: 3786, Start Num: 16

Candidate Starts for Gillker_4:

(Start: 16 @2659 has 97 MA's), (21, 2728), (Start: 27 @2770 has 11 MA's), (30, 2794), (34, 2869), (42, 2941), (43, 2944), (44, 2950), (47, 2983), (54, 3019), (71, 3112), (72, 3115), (79, 3166), (83, 3244), (84, 3256), (91, 3298), (97, 3349), (103, 3430), (107, 3472), (113, 3553), (128, 3703),

Gene: Godfather_4 Start: 2776, Stop: 3798, Start Num: 25

Candidate Starts for Godfather_4:

(Start: 16 @2671 has 97 MA's), (21, 2740), (Start: 25 @2776 has 2 MA's), (Start: 27 @2782 has 11 MA's), (30, 2806), (34, 2881), (42, 2953), (43, 2956), (44, 2962), (47, 2995), (54, 3031), (71, 3124), (72, 3127), (79, 3178), (83, 3256), (84, 3268), (91, 3310), (97, 3361), (103, 3442), (107, 3484), (113, 3565), (128, 3715),

Gene: GoldenBlanche_4 Start: 2659, Stop: 3786, Start Num: 16

Candidate Starts for GoldenBlanche_4:

(Start: 16 @2659 has 97 MA's), (21, 2728), (Start: 27 @2770 has 11 MA's), (30, 2794), (34, 2869), (42, 2941), (43, 2944), (44, 2950), (47, 2983), (54, 3019), (71, 3112), (72, 3115), (79, 3166), (83, 3244), (84, 3256), (91, 3298), (97, 3349), (103, 3430), (107, 3472), (113, 3553), (128, 3703),

Gene: Gonephishing_12 Start: 5962, Stop: 7191, Start Num: 8

Candidate Starts for Gonephishing_12:

(Start: 8 @5962 has 51 MA's), (22, 6055), (26, 6088), (40, 6259), (41, 6262), (42, 6265), (53, 6343), (72, 6454), (75, 6475), (77, 6490), (78, 6496), (87, 6610), (90, 6631), (97, 6688), (98, 6691), (105, 6784), (107, 6808), (110, 6874), (121, 6985), (124, 7012), (132, 7096), (134, 7105), (137, 7129),

Gene: Goobery_4 Start: 2671, Stop: 3798, Start Num: 16

Candidate Starts for Goobery_4:

(Start: 16 @2671 has 97 MA's), (21, 2740), (Start: 27 @2782 has 11 MA's), (30, 2806), (34, 2881), (42, 2953), (43, 2956), (44, 2962), (47, 2995), (54, 3031), (71, 3124), (72, 3127), (79, 3178), (83, 3256), (84, 3268), (91, 3310), (97, 3361), (103, 3442), (107, 3484), (113, 3565), (128, 3715),

Gene: Halley_12 Start: 5831, Stop: 7054, Start Num: 8

Candidate Starts for Halley_12:

(Start: 8 @5831 has 51 MA's), (26, 5957), (40, 6128), (42, 6134), (53, 6212), (72, 6317), (76, 6350), (77, 6353), (78, 6359), (81, 6401), (82, 6422), (97, 6551), (98, 6554), (105, 6647), (107, 6671), (117, 6782), (130, 6929), (134, 6968), (135, 6977), (137, 6992),

Gene: Hannaconda_9 Start: 4114, Stop: 5349, Start Num: 8

Candidate Starts for Hannaconda_9:

(Start: 8 @4114 has 51 MA's), (32, 4300), (37, 4369), (40, 4417), (42, 4423), (53, 4501), (72, 4609), (76, 4642), (77, 4645), (78, 4651), (87, 4765), (90, 4786), (97, 4843), (98, 4846), (105, 4939), (107, 4963), (109, 5014), (110, 5029), (113, 5044), (127, 5188), (134, 5260), (135, 5269),

Gene: HarperAnne_4 Start: 2758, Stop: 3774, Start Num: 27

Candidate Starts for HarperAnne_4:

(Start: 16 @2647 has 97 MA's), (21, 2716), (Start: 25 @2752 has 2 MA's), (Start: 27 @2758 has 11 MA's), (30, 2782), (34, 2857), (42, 2929), (43, 2932), (44, 2938), (47, 2971), (54, 3007), (71, 3100), (72, 3103), (79, 3154), (83, 3232), (84, 3244), (91, 3286), (97, 3337), (101, 3388), (103, 3418), (107, 3460), (110, 3526), (113, 3541), (128, 3691),

Gene: Heather_3 Start: 2179, Stop: 3543, Start Num: 8

Candidate Starts for Heather_3:

(2, 2119), (3, 2122), (Start: 8 @2179 has 51 MA's), (20, 2272), (24, 2311), (28, 2335), (33, 2428), (38, 2479), (45, 2521), (49, 2584), (52, 2605), (55, 2614), (57, 2620), (65, 2662), (70, 2689), (73, 2731), (74, 2734), (84, 2857), (86, 2866), (88, 2878), (90, 2893), (94, 2935), (100, 2995), (102, 3019), (111, 3148), (118, 3235), (122, 3283), (123, 3289), (125, 3304), (129, 3334), (134, 3397), (136, 3412),

Gene: Hernandez44_4 Start: 2872, Stop: 3888, Start Num: 27

Candidate Starts for Hernandez44_4:

(Start: 16 @2761 has 97 MA's), (21, 2830), (Start: 27 @2872 has 11 MA's), (30, 2896), (34, 2971), (42, 3043), (43, 3046), (44, 3052), (47, 3085), (54, 3121), (71, 3214), (72, 3217), (79, 3268), (83, 3346), (84, 3358), (91, 3400), (97, 3451), (103, 3532), (107, 3574), (113, 3655), (128, 3805),

Gene: Hilltopfarm_11 Start: 6514, Stop: 7845, Start Num: 8

Candidate Starts for Hilltopfarm_11:

(Start: 8 @6514 has 51 MA's), (10, 6520), (11, 6523), (18, 6571), (23, 6628), (26, 6649), (30, 6676), (36, 6769), (40, 6820), (41, 6823), (42, 6826), (53, 6925), (59, 6943), (60, 6952), (62, 6958), (64, 6979), (72, 7039), (78, 7081), (84, 7180), (90, 7216), (92, 7225), (93, 7228), (97, 7273), (98, 7276), (105, 7369), (107, 7393), (114, 7483), (116, 7501), (117, 7504), (126, 7615), (130, 7651), (132, 7684), (134, 7693), (138, 7729),

Gene: HokkenD_7 Start: 5399, Stop: 6622, Start Num: 8

Candidate Starts for HokkenD_7:

(Start: 8 @5399 has 51 MA's), (26, 5525), (40, 5696), (42, 5702), (53, 5780), (72, 5885), (76, 5918), (77, 5921), (78, 5927), (81, 5969), (82, 5990), (97, 6119), (98, 6122), (105, 6215), (107, 6239), (117, 6350), (130, 6497), (134, 6536), (135, 6545), (137, 6560),

Gene: Horacetta_4 Start: 2659, Stop: 3786, Start Num: 16

Candidate Starts for Horacetta_4:

(Start: 16 @2659 has 97 MA's), (21, 2728), (Start: 27 @2770 has 11 MA's), (30, 2794), (34, 2869), (42, 2941), (43, 2944), (44, 2950), (47, 2983), (54, 3019), (71, 3112), (72, 3115), (79, 3166), (83, 3244), (84, 3256), (91, 3298), (97, 3349), (103, 3430), (107, 3472), (113, 3553), (128, 3703),

Gene: Hughesyang_11 Start: 6011, Stop: 7234, Start Num: 8

Candidate Starts for Hughesyang_11:

(Start: 8 @6011 has 51 MA's), (26, 6137), (40, 6308), (42, 6314), (53, 6392), (72, 6497), (76, 6530), (77, 6533), (78, 6539), (81, 6581), (82, 6602), (97, 6731), (98, 6734), (105, 6827), (107, 6851), (117, 6962), (130, 7109), (134, 7148), (135, 7157), (137, 7172),

Gene: Hulk_4 Start: 2782, Stop: 3798, Start Num: 27

Candidate Starts for Hulk_4:

(Start: 16 @2671 has 97 MA's), (21, 2740), (Start: 27 @2782 has 11 MA's), (30, 2806), (34, 2881), (42, 2953), (44, 2962), (47, 2995), (54, 3031), (71, 3124), (72, 3127), (79, 3178), (83, 3256), (84, 3268), (91, 3310), (96, 3358), (97, 3361), (101, 3412), (103, 3442), (107, 3484), (113, 3565), (128, 3715),

Gene: JRok_4 Start: 2656, Stop: 3783, Start Num: 16

Candidate Starts for JRok_4:

(13, 2641), (Start: 16 @2656 has 97 MA's), (21, 2725), (Start: 27 @2767 has 11 MA's), (30, 2791), (34, 2866), (42, 2938), (43, 2941), (44, 2947), (47, 2980), (54, 3016), (66, 3064), (71, 3109), (72, 3112), (79, 3163), (83, 3241), (84, 3253), (91, 3295), (96, 3343), (97, 3346), (101, 3397), (103, 3427), (107, 3469), (108, 3511), (113, 3550), (128, 3700),

Gene: Jahseh_4 Start: 2659, Stop: 3786, Start Num: 16

Candidate Starts for Jahseh_4:

(Start: 16 @2659 has 97 MA's), (21, 2728), (Start: 27 @2770 has 11 MA's), (30, 2794), (34, 2869), (42, 2941), (43, 2944), (44, 2950), (47, 2983), (54, 3019), (71, 3112), (72, 3115), (79, 3166), (83, 3244), (84, 3256), (91, 3298), (97, 3349), (103, 3430), (107, 3472), (113, 3553), (128, 3703),

Gene: JaimeB_4 Start: 2782, Stop: 3798, Start Num: 27

Candidate Starts for JaimeB_4:

(Start: 16 @2671 has 97 MA's), (21, 2740), (Start: 27 @2782 has 11 MA's), (30, 2806), (34, 2881), (42, 2953), (43, 2956), (44, 2962), (47, 2995), (54, 3031), (71, 3124), (72, 3127), (79, 3178), (83, 3256), (84, 3268), (91, 3310), (97, 3361), (103, 3442), (107, 3484), (113, 3565), (128, 3715),

Gene: Jannah_4 Start: 2659, Stop: 3786, Start Num: 16

Candidate Starts for Jannah_4:

(Start: 16 @2659 has 97 MA's), (21, 2728), (Start: 27 @2770 has 11 MA's), (30, 2794), (34, 2869), (42, 2941), (43, 2944), (44, 2950), (47, 2983), (54, 3019), (71, 3112), (72, 3115), (79, 3166), (83, 3244), (84, 3256), (91, 3298), (97, 3349), (103, 3430), (107, 3472), (113, 3553), (128, 3703),

Gene: Jerky_4 Start: 2740, Stop: 3867, Start Num: 16

Candidate Starts for Jerky_4:

(13, 2725), (Start: 16 @2740 has 97 MA's), (21, 2809), (Start: 27 @2851 has 11 MA's), (30, 2875), (34, 2950), (42, 3022), (43, 3025), (44, 3031), (47, 3064), (71, 3193), (72, 3196), (79, 3247), (83, 3325), (84, 3337), (91, 3379), (97, 3430), (101, 3481), (103, 3511), (107, 3553), (113, 3634), (128, 3784),

Gene: JoBros_4 Start: 2660, Stop: 3787, Start Num: 16

Candidate Starts for JoBros_4:

(Start: 16 @2660 has 97 MA's), (21, 2729), (Start: 27 @2771 has 11 MA's), (30, 2795), (34, 2870), (42, 2942), (43, 2945), (44, 2951), (47, 2984), (54, 3020), (71, 3113), (72, 3116), (79, 3167), (83, 3245), (84, 3257), (91, 3299), (97, 3350), (103, 3431), (107, 3473), (113, 3554), (128, 3704),

Gene: JooneeDee_4 Start: 2689, Stop: 3816, Start Num: 16

Candidate Starts for JooneeDee_4:

(Start: 16 @2689 has 97 MA's), (21, 2758), (Start: 25 @2794 has 2 MA's), (Start: 27 @2800 has 11 MA's), (30, 2824), (34, 2899), (42, 2971), (43, 2974), (44, 2980), (47, 3013), (54, 3049), (71, 3142), (72, 3145), (79, 3196), (83, 3274), (84, 3286), (91, 3328), (97, 3379), (103, 3460), (107, 3502), (110, 3568), (113, 3583), (128, 3733),

Gene: Josuke_4 Start: 2671, Stop: 3798, Start Num: 16

Candidate Starts for Josuke_4:

(Start: 16 @2671 has 97 MA's), (21, 2740), (Start: 25 @2776 has 2 MA's), (Start: 27 @2782 has 11 MA's), (30, 2806), (34, 2881), (42, 2953), (43, 2956), (44, 2962), (47, 2995), (54, 3031), (71, 3124), (72, 3127), (79, 3178), (83, 3256), (84, 3268), (91, 3310), (97, 3361), (103, 3442), (107, 3484), (113, 3565), (128, 3715),

Gene: JuicyJay_13 Start: 6661, Stop: 7884, Start Num: 8

Candidate Starts for JuicyJay_13:

(Start: 8 @6661 has 51 MA's), (26, 6787), (40, 6958), (42, 6964), (53, 7042), (72, 7147), (76, 7180), (77, 7183), (78, 7189), (81, 7231), (82, 7252), (97, 7381), (98, 7384), (105, 7477), (107, 7501), (117, 7612), (130, 7759), (134, 7798), (135, 7807), (137, 7822),

Gene: Kaijohn_4 Start: 2665, Stop: 3792, Start Num: 16

Candidate Starts for Kaijohn_4:

(13, 2650), (Start: 16 @2665 has 97 MA's), (21, 2734), (Start: 25 @2770 has 2 MA's), (Start: 27 @2776 has 11 MA's), (30, 2800), (34, 2875), (42, 2947), (43, 2950), (44, 2956), (47, 2989), (54, 3025), (71, 3118), (72, 3121), (79, 3172), (83, 3250), (84, 3262), (91, 3304), (96, 3352), (97, 3355), (101, 3406), (103, 3436), (107, 3478), (113, 3559), (128, 3709),

Gene: Kalah2_12 Start: 6430, Stop: 7653, Start Num: 8

Candidate Starts for Kalah2_12:

(Start: 8 @6430 has 51 MA's), (26, 6556), (40, 6727), (42, 6733), (53, 6811), (72, 6916), (76, 6949), (77, 6952), (78, 6958), (81, 7000), (82, 7021), (97, 7150), (98, 7153), (105, 7246), (107, 7270), (117, 7381), (130, 7528), (134, 7567), (135, 7576), (137, 7591),

Gene: KashFlow_6 Start: 3680, Stop: 4915, Start Num: 8

Candidate Starts for KashFlow_6:

(Start: 8 @3680 has 51 MA's), (32, 3866), (37, 3935), (40, 3983), (42, 3989), (53, 4067), (72, 4175), (76, 4208), (77, 4211), (78, 4217), (87, 4331), (90, 4352), (97, 4409), (98, 4412), (105, 4505), (107, 4529), (109, 4580), (110, 4595), (113, 4610), (127, 4754), (134, 4826), (135, 4835),

Gene: KayPaulus_4 Start: 2656, Stop: 3783, Start Num: 16

Candidate Starts for KayPaulus_4:

(Start: 9 @2629 has 1 MA's), (Start: 16 @2656 has 97 MA's), (21, 2725), (Start: 25 @2761 has 2 MA's), (Start: 27 @2767 has 11 MA's), (30, 2791), (34, 2866), (42, 2938), (43, 2941), (44, 2947), (47, 2980), (54, 3016), (66, 3064), (71, 3109), (72, 3112), (79, 3163), (83, 3241), (84, 3253), (91, 3295), (97, 3346), (103, 3427), (107, 3469), (113, 3550), (128, 3700),

Gene: Kevanna_4 Start: 2656, Stop: 3783, Start Num: 16

Candidate Starts for Kevanna_4:

(Start: 9 @2629 has 1 MA's), (Start: 16 @2656 has 97 MA's), (21, 2725), (Start: 25 @2761 has 2 MA's), (Start: 27 @2767 has 11 MA's), (30, 2791), (34, 2866), (42, 2938), (43, 2941), (44, 2947), (47, 2980), (54, 3016), (71, 3109), (72, 3112), (79, 3163), (83, 3241), (84, 3253), (91, 3295), (97, 3346), (103, 3427), (107, 3469), (113, 3550), (128, 3700),

Gene: KillerTomato_4 Start: 2710, Stop: 3837, Start Num: 16

Candidate Starts for KillerTomato_4:

(Start: 9 @2683 has 1 MA's), (Start: 16 @2710 has 97 MA's), (21, 2779), (Start: 25 @2815 has 2 MA's), (Start: 27 @2821 has 11 MA's), (30, 2845), (34, 2920), (42, 2992), (43, 2995), (44, 3001), (47, 3034), (54, 3070), (66, 3118), (71, 3163), (72, 3166), (79, 3217), (83, 3295), (84, 3307), (91, 3349), (96, 3397), (97, 3400), (101, 3451), (103, 3481), (107, 3523), (113, 3604), (128, 3754),

Gene: Klein_12 Start: 5407, Stop: 6630, Start Num: 8

Candidate Starts for Klein_12:

(Start: 8 @5407 has 51 MA's), (26, 5533), (40, 5704), (42, 5710), (53, 5788), (72, 5893), (76, 5926), (77, 5929), (78, 5935), (81, 5977), (82, 5998), (97, 6127), (98, 6130), (105, 6223), (107, 6247), (117, 6358), (130, 6505), (134, 6544), (135, 6553), (137, 6568),

Gene: Kojax4_4 Start: 2776, Stop: 3798, Start Num: 25

Candidate Starts for Kojax4_4:

(Start: 16 @2671 has 97 MA's), (21, 2740), (Start: 25 @2776 has 2 MA's), (Start: 27 @2782 has 11 MA's), (30, 2806), (34, 2881), (42, 2953), (43, 2956), (44, 2962), (47, 2995), (54, 3031), (71, 3124), (72, 3127), (79, 3178), (83, 3256), (84, 3268), (91, 3310), (97, 3361), (103, 3442), (107, 3484), (113, 3565), (128, 3715),

Gene: KyriosFaba_4 Start: 2659, Stop: 3786, Start Num: 16

Candidate Starts for KyriosFaba_4:

(Start: 16 @2659 has 97 MA's), (21, 2728), (Start: 27 @2770 has 11 MA's), (30, 2794), (34, 2869), (42, 2941), (43, 2944), (44, 2950), (47, 2983), (71, 3112), (72, 3115), (79, 3166), (83, 3244), (84, 3256), (91, 3298), (97, 3349), (103, 3430), (107, 3472), (113, 3553), (128, 3703),

Gene: LaviMo_4 Start: 2671, Stop: 3798, Start Num: 16

Candidate Starts for LaviMo_4:

(Start: 16 @2671 has 97 MA's), (21, 2740), (Start: 25 @2776 has 2 MA's), (Start: 27 @2782 has 11 MA's), (30, 2806), (34, 2881), (42, 2953), (43, 2956), (44, 2962), (47, 2995), (54, 3031), (71, 3124), (72, 3127), (79, 3178), (83, 3256), (84, 3268), (91, 3310), (97, 3361), (103, 3442), (107, 3484), (113, 3565), (128, 3715),

Gene: Leafy_4 Start: 2677, Stop: 3804, Start Num: 16

Candidate Starts for Leafy_4:

(Start: 9 @2650 has 1 MA's), (Start: 16 @2677 has 97 MA's), (21, 2746), (Start: 25 @2782 has 2 MA's), (Start: 27 @2788 has 11 MA's), (30, 2812), (34, 2887), (42, 2959), (43, 2962), (44, 2968), (47, 3001), (54, 3037), (71, 3130), (72, 3133), (79, 3184), (83, 3262), (84, 3274), (91, 3316), (96, 3364), (97, 3367), (101, 3418), (103, 3448), (107, 3490), (113, 3571), (128, 3721),

Gene: LemonPepper_4 Start: 2770, Stop: 3786, Start Num: 27

Candidate Starts for LemonPepper_4:

(Start: 16 @2659 has 97 MA's), (21, 2728), (Start: 27 @2770 has 11 MA's), (30, 2794), (34, 2869), (42, 2941), (43, 2944), (44, 2950), (47, 2983), (54, 3019), (71, 3112), (72, 3115), (79, 3166), (83, 3244), (84, 3256), (91, 3298), (97, 3349), (103, 3430), (107, 3472), (113, 3553), (128, 3703),

Gene: Lilbooboo_3 Start: 2201, Stop: 3571, Start Num: 8

Candidate Starts for Lilbooboo_3:

(5, 2165), (Start: 8 @2201 has 51 MA's), (28, 2354), (38, 2498), (48, 2591), (49, 2603), (55, 2633), (57, 2639), (58, 2642), (70, 2708), (73, 2750), (74, 2753), (83, 2864), (84, 2876), (85, 2879), (86, 2885), (88, 2897), (90, 2912), (100, 3014), (106, 3086), (111, 3167), (118, 3254), (122, 3302), (129, 3353), (130, 3371), (131, 3392), (133, 3410),

Gene: LionelHutz_4 Start: 2671, Stop: 3798, Start Num: 16

Candidate Starts for LionelHutz_4:

(Start: 16 @2671 has 97 MA's), (21, 2740), (Start: 27 @2782 has 11 MA's), (30, 2806), (34, 2881), (42, 2953), (43, 2956), (44, 2962), (47, 2995), (54, 3031), (71, 3124), (72, 3127), (79, 3178), (83, 3256), (84, 3268), (91, 3310), (97, 3361), (103, 3442), (107, 3484), (113, 3565), (128, 3715),

Gene: LittleE_11 Start: 5813, Stop: 7042, Start Num: 8

Candidate Starts for LittleE_11:

(Start: 8 @5813 has 51 MA's), (22, 5906), (26, 5939), (40, 6110), (41, 6113), (42, 6116), (53, 6194), (72, 6305), (75, 6326), (77, 6341), (78, 6347), (87, 6461), (90, 6482), (97, 6539), (98, 6542), (105, 6635), (107, 6659), (110, 6725), (121, 6836), (124, 6863), (132, 6947), (134, 6956), (137, 6980),

Gene: Livingwater_4 Start: 2656, Stop: 3783, Start Num: 16

Candidate Starts for Livingwater_4:

(Start: 9 @2629 has 1 MA's), (Start: 16 @2656 has 97 MA's), (21, 2725), (Start: 25 @2761 has 2 MA's), (Start: 27 @2767 has 11 MA's), (30, 2791), (34, 2866), (42, 2938), (43, 2941), (44, 2947), (47, 2980), (54, 3016), (66, 3064), (71, 3109), (72, 3112), (79, 3163), (83, 3241), (84, 3253), (91, 3295), (97, 3346), (103, 3427), (107, 3469), (113, 3550), (128, 3700),

Gene: Loca_4 Start: 2677, Stop: 3804, Start Num: 16

Candidate Starts for Loca_4:

(Start: 9 @2650 has 1 MA's), (Start: 16 @2677 has 97 MA's), (21, 2746), (Start: 25 @2782 has 2 MA's), (Start: 27 @2788 has 11 MA's), (30, 2812), (34, 2887), (42, 2959), (43, 2962), (44, 2968), (47, 3001), (54, 3037), (71, 3130), (72, 3133), (79, 3184), (83, 3262), (91, 3316), (96, 3364), (97, 3367), (101, 3418), (103, 3448), (107, 3490), (108, 3532), (113, 3571), (128, 3721),

Gene: Lola20_4 Start: 2656, Stop: 3783, Start Num: 16

Candidate Starts for Lola20_4:

(Start: 16 @2656 has 97 MA's), (21, 2725), (Start: 27 @2767 has 11 MA's), (30, 2791), (34, 2866), (42, 2938), (43, 2941), (44, 2947), (47, 2980), (54, 3016), (71, 3109), (72, 3112), (79, 3163), (83, 3241), (84, 3253), (91, 3295), (97, 3346), (103, 3427), (107, 3469), (113, 3550), (128, 3700),

Gene: Lucky2013_12 Start: 5184, Stop: 6413, Start Num: 8

Candidate Starts for Lucky2013_12:

(Start: 8 @5184 has 51 MA's), (22, 5277), (26, 5310), (40, 5481), (41, 5484), (42, 5487), (53, 5565), (72, 5676), (75, 5697), (77, 5712), (78, 5718), (87, 5832), (90, 5853), (97, 5910), (98, 5913), (105, 6006), (107, 6030), (110, 6096), (121, 6207), (124, 6234), (132, 6318), (134, 6327), (137, 6351),

Gene: Lunatic_4 Start: 2647, Stop: 3774, Start Num: 16

Candidate Starts for Lunatic_4:

(Start: 16 @2647 has 97 MA's), (21, 2716), (Start: 25 @2752 has 2 MA's), (Start: 27 @2758 has 11 MA's), (30, 2782), (34, 2857), (42, 2929), (43, 2932), (44, 2938), (47, 2971), (54, 3007), (71, 3100), (72, 3103), (79, 3154), (83, 3232), (84, 3244), (91, 3286), (97, 3337), (103, 3418), (107, 3460), (110, 3526), (113, 3541), (128, 3691),

Gene: Luxx_4 Start: 2794, Stop: 3810, Start Num: 27

Candidate Starts for Luxx_4:

(Start: 9 @2656 has 1 MA's), (Start: 16 @2683 has 97 MA's), (21, 2752), (Start: 27 @2794 has 11 MA's), (30, 2818), (34, 2893), (42, 2965), (43, 2968), (44, 2974), (47, 3007), (54, 3043), (71, 3136), (72, 3139), (79, 3190), (83, 3268), (84, 3280), (91, 3322), (97, 3373), (103, 3454), (107, 3496), (113, 3577), (128, 3727),

Gene: Majesty_4 Start: 2671, Stop: 3798, Start Num: 16

Candidate Starts for Majesty_4:

(Start: 16 @2671 has 97 MA's), (21, 2740), (Start: 27 @2782 has 11 MA's), (30, 2806), (34, 2881), (42, 2953), (43, 2956), (44, 2962), (47, 2995), (54, 3031), (71, 3124), (72, 3127), (79, 3178), (83, 3256), (84, 3268), (91, 3310), (97, 3361), (103, 3442), (107, 3484), (113, 3565), (128, 3715),

Gene: ManAs_4 Start: 2659, Stop: 3786, Start Num: 16

Candidate Starts for ManAs_4:

(Start: 16 @2659 has 97 MA's), (21, 2728), (Start: 27 @2770 has 11 MA's), (30, 2794), (34, 2869), (42, 2941), (43, 2944), (44, 2950), (47, 2983), (54, 3019), (71, 3112), (72, 3115), (79, 3166), (83, 3244), (84, 3256), (91, 3298), (97, 3349), (103, 3430), (107, 3472), (113, 3553), (128, 3703),

Gene: Maneater_4 Start: 2758, Stop: 3774, Start Num: 27

Candidate Starts for Maneater_4:

(Start: 16 @2647 has 97 MA's), (21, 2716), (Start: 27 @2758 has 11 MA's), (30, 2782), (34, 2857), (42, 2929), (43, 2932), (44, 2938), (47, 2971), (54, 3007), (71, 3100), (72, 3103), (79, 3154), (83, 3232), (84, 3244), (91, 3286), (97, 3337), (101, 3388), (103, 3418), (107, 3460), (113, 3541), (128, 3691),

Gene: MasterPitts_4 Start: 2776, Stop: 3798, Start Num: 25

Candidate Starts for MasterPitts_4:

(Start: 16 @2671 has 97 MA's), (21, 2740), (Start: 25 @2776 has 2 MA's), (Start: 27 @2782 has 11 MA's), (30, 2806), (34, 2881), (42, 2953), (43, 2956), (44, 2962), (47, 2995), (54, 3031), (71, 3124), (72, 3127), (79, 3178), (83, 3256), (84, 3268), (91, 3310), (97, 3361), (103, 3442), (107, 3484), (113, 3565), (128, 3715),

Gene: McShie_4 Start: 2656, Stop: 3783, Start Num: 16

Candidate Starts for McShie_4:

(13, 2641), (Start: 16 @2656 has 97 MA's), (21, 2725), (Start: 27 @2767 has 11 MA's), (30, 2791), (34, 2866), (42, 2938), (43, 2941), (44, 2947), (47, 2980), (54, 3016), (66, 3064), (71, 3109), (72, 3112), (79, 3163), (83, 3241), (84, 3253), (91, 3295), (96, 3343), (97, 3346), (103, 3427), (107, 3469), (108, 3511), (113, 3550), (128, 3700),

Gene: MelBee03_4 Start: 2656, Stop: 3783, Start Num: 16

Candidate Starts for MelBee03_4:

(Start: 9 @2629 has 1 MA's), (Start: 16 @2656 has 97 MA's), (21, 2725), (Start: 25 @2761 has 2 MA's), (Start: 27 @2767 has 11 MA's), (30, 2791), (34, 2866), (42, 2938), (43, 2941), (44, 2947), (47, 2980), (54, 3016), (71, 3109), (72, 3112), (79, 3163), (83, 3241), (84, 3253), (91, 3295), (97, 3346), (103, 3427), (107, 3469), (113, 3550), (128, 3700),

Gene: MiaZeal_12 Start: 5253, Stop: 6488, Start Num: 8

Candidate Starts for MiaZeal_12:

(Start: 8 @5253 has 51 MA's), (32, 5439), (37, 5508), (40, 5556), (42, 5562), (53, 5640), (72, 5748), (76, 5781), (77, 5784), (78, 5790), (87, 5904), (90, 5925), (97, 5982), (98, 5985), (105, 6078), (107, 6102), (109, 6153), (110, 6168), (113, 6183), (127, 6327), (134, 6399), (135, 6408),

Gene: Miaurora_4 Start: 2764, Stop: 3891, Start Num: 16

Candidate Starts for Miaurora_4:

(Start: 16 @2764 has 97 MA's), (21, 2833), (Start: 25 @2869 has 2 MA's), (Start: 27 @2875 has 11 MA's), (30, 2899), (34, 2974), (42, 3046), (43, 3049), (44, 3055), (47, 3088), (54, 3124), (71, 3217), (72, 3220), (79, 3271), (83, 3349), (84, 3361), (91, 3403), (97, 3454), (103, 3535), (107, 3577), (110, 3643), (113, 3658), (128, 3808),

Gene: Minerva_11 Start: 5890, Stop: 7113, Start Num: 8

Candidate Starts for Minerva_11:

(Start: 8 @5890 has 51 MA's), (26, 6016), (40, 6187), (42, 6193), (53, 6271), (72, 6376), (76, 6409), (77, 6412), (78, 6418), (81, 6460), (82, 6481), (97, 6610), (98, 6613), (105, 6706), (107, 6730), (117, 6841), (130, 6988), (134, 7027), (135, 7036), (137, 7051),

Gene: Minima_4 Start: 2659, Stop: 3786, Start Num: 16

Candidate Starts for Minima_4:

(Start: 16 @2659 has 97 MA's), (21, 2728), (Start: 27 @2770 has 11 MA's), (30, 2794), (34, 2869), (42, 2941), (43, 2944), (44, 2950), (47, 2983), (54, 3019), (71, 3112), (72, 3115), (79, 3166), (83, 3244), (84, 3256), (91, 3298), (97, 3349), (103, 3430), (107, 3472), (113, 3553), (128, 3703),

Gene: MirimarMandM_4 Start: 2689, Stop: 3858, Start Num: 16

Candidate Starts for MirimarMandM_4:

(Start: 16 @2689 has 97 MA's), (21, 2758), (Start: 25 @2794 has 2 MA's), (Start: 27 @2800 has 11 MA's), (30, 2824), (34, 2899), (42, 2971), (43, 2974), (44, 2980), (47, 3013), (54, 3049), (71, 3142), (72, 3145), (79, 3196), (83, 3274), (84, 3286), (91, 3328), (97, 3379), (103, 3460), (107, 3502), (110, 3568), (113, 3583), (127, 3727), (128, 3733),

Gene: MrGreen_4 Start: 2677, Stop: 3804, Start Num: 16

Candidate Starts for MrGreen_4:

(Start: 9 @2650 has 1 MA's), (Start: 16 @2677 has 97 MA's), (21, 2746), (Start: 25 @2782 has 2 MA's), (Start: 27 @2788 has 11 MA's), (30, 2812), (34, 2887), (42, 2959), (43, 2962), (44, 2968), (47, 3001), (54, 3037), (71, 3130), (72, 3133), (79, 3184), (83, 3262), (84, 3274), (91, 3316), (96, 3364), (97, 3367), (101, 3418), (103, 3448), (107, 3490), (113, 3571), (128, 3721),

Gene: Naby_4 Start: 2373, Stop: 3533, Start Num: 16

Candidate Starts for Naby_4:

(12, 2355), (15, 2364), (Start: 16 @2373 has 97 MA's), (Start: 27 @2484 has 11 MA's), (30, 2508), (35, 2586), (42, 2655), (44, 2664), (47, 2697), (66, 2781), (72, 2829), (83, 2958), (84, 2970), (89, 3003), (95, 3057), (97, 3063), (101, 3114), (107, 3186), (110, 3252), (113, 3267), (127, 3411), (128, 3417),

Gene: Namsahir_4 Start: 2680, Stop: 3846, Start Num: 16

Candidate Starts for Namsahir_4:

(Start: 16 @2680 has 97 MA's), (21, 2749), (Start: 25 @2785 has 2 MA's), (Start: 27 @2791 has 11 MA's), (30, 2815), (34, 2890), (42, 2962), (43, 2965), (44, 2971), (47, 3004), (54, 3040), (71, 3133), (72, 3136), (79, 3187), (83, 3265), (84, 3277), (91, 3319), (97, 3370), (103, 3451), (107, 3493), (110, 3559), (113, 3574), (127, 3718), (128, 3724),

Gene: NeumannU_4 Start: 2671, Stop: 3798, Start Num: 16

Candidate Starts for NeumannU_4:

(Start: 16 @2671 has 97 MA's), (21, 2740), (Start: 27 @2782 has 11 MA's), (30, 2806), (34, 2881), (42, 2953), (43, 2956), (44, 2962), (47, 2995), (54, 3031), (71, 3124), (72, 3127), (79, 3178), (83, 3256), (84, 3268), (91, 3310), (97, 3361), (103, 3442), (107, 3484), (113, 3565), (128, 3715),

Gene: Niffler_4 Start: 2737, Stop: 3864, Start Num: 16

Candidate Starts for Niffler_4:

(Start: 16 @2737 has 97 MA's), (21, 2806), (Start: 25 @2842 has 2 MA's), (Start: 27 @2848 has 11 MA's), (30, 2872), (34, 2947), (42, 3019), (43, 3022), (44, 3028), (47, 3061), (54, 3097), (71, 3190), (72, 3193), (79, 3244), (83, 3322), (84, 3334), (91, 3376), (97, 3427), (103, 3508), (107, 3550), (110, 3616), (113, 3631), (128, 3781),

Gene: NihilNomen_11 Start: 5890, Stop: 7113, Start Num: 8

Candidate Starts for NihilNomen_11:

(Start: 8 @5890 has 51 MA's), (26, 6016), (40, 6187), (42, 6193), (53, 6271), (72, 6376), (76, 6409), (77, 6412), (78, 6418), (81, 6460), (82, 6481), (97, 6610), (98, 6613), (105, 6706), (107, 6730), (117, 6841), (130, 6988), (134, 7027), (135, 7036), (137, 7051),

Gene: Nobel_4 Start: 2764, Stop: 3891, Start Num: 16

Candidate Starts for Nobel_4:

(Start: 16 @2764 has 97 MA's), (21, 2833), (Start: 25 @2869 has 2 MA's), (Start: 27 @2875 has 11 MA's), (30, 2899), (34, 2974), (42, 3046), (43, 3049), (44, 3055), (47, 3088), (54, 3124), (71, 3217), (72, 3220), (79, 3271), (83, 3349), (84, 3361), (91, 3403), (97, 3454), (103, 3535), (107, 3577), (110, 3643), (113, 3658), (128, 3808),

Gene: Noelani_4 Start: 2647, Stop: 3774, Start Num: 16

Candidate Starts for Noelani_4:

(Start: 16 @2647 has 97 MA's), (21, 2716), (Start: 25 @2752 has 2 MA's), (Start: 27 @2758 has 11 MA's), (30, 2782), (34, 2857), (42, 2929), (43, 2932), (44, 2938), (47, 2971), (54, 3007), (71, 3100), (72, 3103), (79, 3154), (83, 3232), (84, 3244), (91, 3286), (97, 3337), (101, 3388), (103, 3418), (107, 3460), (110, 3526), (113, 3541), (128, 3691),

Gene: Oaklynn_4 Start: 2770, Stop: 3786, Start Num: 27

Candidate Starts for Oaklynn_4:

(13, 2644), (Start: 16 @2659 has 97 MA's), (21, 2728), (Start: 27 @2770 has 11 MA's), (30, 2794), (34, 2869), (42, 2941), (43, 2944), (44, 2950), (47, 2983), (54, 3019), (66, 3067), (71, 3112), (72, 3115), (79, 3166), (83, 3244), (84, 3256), (91, 3298), (96, 3346), (97, 3349), (101, 3400), (103, 3430), (107, 3472), (108, 3514), (113, 3553), (128, 3703),

Gene: Octopus_4 Start: 2659, Stop: 3786, Start Num: 16

Candidate Starts for Octopus_4:

(Start: 16 @2659 has 97 MA's), (21, 2728), (Start: 27 @2770 has 11 MA's), (30, 2794), (34, 2869), (42, 2941), (43, 2944), (44, 2950), (47, 2983), (54, 3019), (71, 3112), (72, 3115), (79, 3166), (83, 3244), (84, 3256), (91, 3298), (97, 3349), (103, 3430), (107, 3472), (113, 3553), (128, 3703),

Gene: Odette_11 Start: 5369, Stop: 6592, Start Num: 8

Candidate Starts for Odette_11:

(Start: 8 @5369 has 51 MA's), (26, 5495), (40, 5666), (42, 5672), (53, 5750), (72, 5855), (76, 5888), (77, 5891), (78, 5897), (81, 5939), (82, 5960), (97, 6089), (98, 6092), (105, 6185), (107, 6209), (117, 6320), (130, 6467), (134, 6506), (135, 6515), (137, 6530),

Gene: Omega_13 Start: 7158, Stop: 8387, Start Num: 8

Candidate Starts for Omega_13:

(Start: 8 @7158 has 51 MA's), (22, 7251), (26, 7284), (39, 7449), (40, 7455), (42, 7461), (53, 7539), (72, 7650), (77, 7686), (78, 7692), (85, 7794), (97, 7884), (98, 7887), (105, 7980), (107, 8004), (110, 8070), (117, 8115), (120, 8169), (124, 8208), (134, 8301), (135, 8310), (137, 8325),

Gene: Optimus_9 Start: 5396, Stop: 6619, Start Num: 8

Candidate Starts for Optimus_9:

(Start: 8 @5396 has 51 MA's), (26, 5522), (40, 5693), (42, 5699), (53, 5777), (72, 5882), (76, 5915), (77, 5918), (78, 5924), (81, 5966), (82, 5987), (97, 6116), (98, 6119), (105, 6212), (107, 6236), (117, 6347), (130, 6494), (134, 6533), (135, 6542), (137, 6557),

Gene: Otwor_4 Start: 2671, Stop: 3798, Start Num: 16

Candidate Starts for Otwor_4:

(Start: 16 @2671 has 97 MA's), (21, 2740), (Start: 25 @2776 has 2 MA's), (Start: 27 @2782 has 11 MA's), (30, 2806), (34, 2881), (42, 2953), (43, 2956), (44, 2962), (47, 2995), (54, 3031), (71, 3124), (72, 3127), (79, 3178), (83, 3256), (84, 3268), (91, 3310), (97, 3361), (103, 3442), (107, 3484), (113, 3565), (128, 3715),

Gene: Owens_4 Start: 2671, Stop: 3798, Start Num: 16

Candidate Starts for Owens_4:

(Start: 16 @2671 has 97 MA's), (21, 2740), (Start: 27 @2782 has 11 MA's), (30, 2806), (34, 2881), (42, 2953), (43, 2956), (44, 2962), (47, 2995), (54, 3031), (71, 3124), (72, 3127), (79, 3178), (83, 3256), (84, 3268), (91, 3310), (97, 3361), (103, 3442), (107, 3484), (113, 3565), (128, 3715),

Gene: PaoPu_4 Start: 2659, Stop: 3786, Start Num: 16

Candidate Starts for PaoPu_4:

(Start: 16 @2659 has 97 MA's), (21, 2728), (Start: 27 @2770 has 11 MA's), (30, 2794), (34, 2869), (42, 2941), (43, 2944), (44, 2950), (47, 2983), (54, 3019), (71, 3112), (72, 3115), (79, 3166), (83, 3244), (84, 3256), (91, 3298), (97, 3349), (103, 3430), (107, 3472), (113, 3553), (128, 3703),

Gene: Phoebus_12 Start: 6116, Stop: 7339, Start Num: 8

Candidate Starts for Phoebus_12:

(Start: 8 @6116 has 51 MA's), (26, 6242), (40, 6413), (42, 6419), (53, 6497), (72, 6602), (76, 6635), (77, 6638), (78, 6644), (81, 6686), (82, 6707), (97, 6836), (98, 6839), (105, 6932), (107, 6956), (117, 7067), (130, 7214), (134, 7253), (135, 7262), (137, 7277),

Gene: Picnic_4 Start: 2659, Stop: 3786, Start Num: 16

Candidate Starts for Picnic_4:

(Start: 16 @2659 has 97 MA's), (21, 2728), (Start: 27 @2770 has 11 MA's), (30, 2794), (34, 2869), (42, 2941), (43, 2944), (44, 2950), (47, 2983), (54, 3019), (71, 3112), (72, 3115), (79, 3166), (83, 3244), (84, 3256), (91, 3298), (97, 3349), (103, 3430), (107, 3472), (113, 3553), (128, 3703),

Gene: PoRanda_4 Start: 2689, Stop: 3858, Start Num: 16

Candidate Starts for PoRanda_4:

(Start: 16 @2689 has 97 MA's), (21, 2758), (Start: 25 @2794 has 2 MA's), (Start: 27 @2800 has 11 MA's), (30, 2824), (34, 2899), (42, 2971), (43, 2974), (44, 2980), (47, 3013), (54, 3049), (71, 3142), (72, 3145), (79, 3196), (83, 3274), (84, 3286), (91, 3328), (97, 3379), (103, 3460), (107, 3502), (110, 3568), (113, 3583), (127, 3727), (128, 3733),

Gene: Pondwater_4 Start: 2659, Stop: 3786, Start Num: 16

Candidate Starts for Pondwater_4:

(Start: 16 @2659 has 97 MA's), (21, 2728), (Start: 27 @2770 has 11 MA's), (30, 2794), (34, 2869), (42, 2941), (43, 2944), (44, 2950), (47, 2983), (54, 3019), (71, 3112), (72, 3115), (79, 3166), (83, 3244), (84, 3256), (91, 3298), (97, 3349), (103, 3430), (107, 3472), (113, 3553), (128, 3703),

Gene: Porcelain_12 Start: 5253, Stop: 6488, Start Num: 8

Candidate Starts for Porcelain_12:

(Start: 8 @5253 has 51 MA's), (32, 5439), (37, 5508), (40, 5556), (42, 5562), (53, 5640), (72, 5748), (76, 5781), (77, 5784), (78, 5790), (87, 5904), (90, 5925), (97, 5982), (98, 5985), (105, 6078), (107, 6102), (109, 6153), (110, 6168), (113, 6183), (127, 6327), (134, 6399), (135, 6408),

Gene: Pound_11 Start: 5886, Stop: 7109, Start Num: 8

Candidate Starts for Pound_11:

(Start: 8 @5886 has 51 MA's), (26, 6012), (40, 6183), (42, 6189), (53, 6267), (72, 6372), (76, 6405), (77, 6408), (78, 6414), (81, 6456), (82, 6477), (97, 6606), (98, 6609), (105, 6702), (107, 6726), (117, 6837), (130, 6984), (134, 7023), (135, 7032), (137, 7047),

Gene: Publix_4 Start: 2680, Stop: 3846, Start Num: 16

Candidate Starts for Publix_4:

(Start: 16 @2680 has 97 MA's), (21, 2749), (Start: 25 @2785 has 2 MA's), (Start: 27 @2791 has 11 MA's), (30, 2815), (34, 2890), (42, 2962), (43, 2965), (44, 2971), (47, 3004), (54, 3040), (71, 3133), (72, 3136), (79, 3187), (83, 3265), (84, 3277), (91, 3319), (97, 3370), (103, 3451), (107, 3493), (110, 3559), (113, 3574), (127, 3718), (128, 3724),

Gene: Puddles3_4 Start: 2659, Stop: 3786, Start Num: 16

Candidate Starts for Puddles3_4:

(Start: 16 @2659 has 97 MA's), (21, 2728), (Start: 27 @2770 has 11 MA's), (30, 2794), (34, 2869), (42, 2941), (43, 2944), (44, 2950), (47, 2983), (54, 3019), (71, 3112), (72, 3115), (79, 3166), (83, 3244), (84, 3256), (91, 3298), (97, 3349), (103, 3430), (107, 3472), (113, 3553), (128, 3703),

Gene: PuffyCat_4 Start: 2689, Stop: 3816, Start Num: 16

Candidate Starts for PuffyCat_4:

(Start: 16 @2689 has 97 MA's), (21, 2758), (Start: 25 @2794 has 2 MA's), (Start: 27 @2800 has 11 MA's), (30, 2824), (34, 2899), (42, 2971), (43, 2974), (44, 2980), (47, 3013), (54, 3049), (71, 3142), (72, 3145), (79, 3196), (83, 3274), (84, 3286), (91, 3328), (97, 3379), (103, 3460), (107, 3502), (110, 3568), (113, 3583), (128, 3733),

Gene: Quaker_4 Start: 2656, Stop: 3783, Start Num: 16

Candidate Starts for Quaker_4:

(Start: 9 @2629 has 1 MA's), (Start: 16 @2656 has 97 MA's), (21, 2725), (Start: 25 @2761 has 2 MA's), (Start: 27 @2767 has 11 MA's), (30, 2791), (34, 2866), (42, 2938), (43, 2941), (44, 2947), (47, 2980), (54, 3016), (66, 3064), (71, 3109), (72, 3112), (79, 3163), (83, 3241), (84, 3253), (91, 3295), (97, 3346), (103, 3427), (107, 3469), (113, 3550), (128, 3700),

Gene: Redno2_11 Start: 5601, Stop: 6824, Start Num: 8

Candidate Starts for Redno2_11:

(Start: 8 @5601 has 51 MA's), (26, 5727), (40, 5898), (42, 5904), (53, 5982), (72, 6087), (76, 6120), (77, 6123), (78, 6129), (81, 6171), (82, 6192), (97, 6321), (98, 6324), (105, 6417), (107, 6441), (117, 6552), (130, 6699), (134, 6738), (135, 6747), (137, 6762),

Gene: RemusLoopin_3 Start: 2182, Stop: 3525, Start Num: 8

Candidate Starts for RemusLoopin_3:

(4, 2137), (Start: 8 @2182 has 51 MA's), (20, 2260), (24, 2296), (28, 2320), (38, 2464), (48, 2557), (49, 2569), (55, 2599), (57, 2605), (58, 2608), (63, 2629), (73, 2716), (74, 2719), (84, 2842), (88, 2863), (90, 2878), (100, 2980), (102, 3004), (111, 3133), (122, 3268), (125, 3289), (129, 3319), (130, 3337), (131, 3358), (133, 3376), (134, 3382),

Gene: Rhogar_4 Start: 2782, Stop: 3798, Start Num: 27

Candidate Starts for Rhogar_4:

(Start: 16 @2671 has 97 MA's), (21, 2740), (Start: 27 @2782 has 11 MA's), (30, 2806), (34, 2881), (42, 2953), (43, 2956), (44, 2962), (47, 2995), (54, 3031), (71, 3124), (72, 3127), (79, 3178), (83, 3256), (84, 3268), (91, 3310), (97, 3361), (103, 3442), (107, 3484), (113, 3565), (128, 3715),

Gene: Rhysand_4 Start: 2671, Stop: 3798, Start Num: 16

Candidate Starts for Rhysand_4:

(Start: 16 @2671 has 97 MA's), (21, 2740), (Start: 25 @2776 has 2 MA's), (Start: 27 @2782 has 11 MA's), (30, 2806), (34, 2881), (42, 2953), (43, 2956), (44, 2962), (47, 2995), (54, 3031), (71, 3124), (72, 3127), (79, 3178), (83, 3256), (84, 3268), (91, 3310), (97, 3361), (103, 3442), (107, 3484), (113, 3565), (128, 3715),

Gene: RoscoWindex_4 Start: 2671, Stop: 3798, Start Num: 16

Candidate Starts for RoscoWindex_4:

(Start: 16 @2671 has 97 MA's), (21, 2740), (Start: 25 @2776 has 2 MA's), (Start: 27 @2782 has 11 MA's), (30, 2806), (34, 2881), (42, 2953), (43, 2956), (44, 2962), (47, 2995), (54, 3031), (71, 3124), (72, 3127), (79, 3178), (83, 3256), (84, 3268), (91, 3310), (97, 3361), (103, 3442), (107, 3484), (113, 3565), (128, 3715),

Gene: Sage7_4 Start: 2776, Stop: 3798, Start Num: 25

Candidate Starts for Sage7_4:

(Start: 16 @2671 has 97 MA's), (21, 2740), (Start: 25 @2776 has 2 MA's), (Start: 27 @2782 has 11 MA's), (30, 2806), (34, 2881), (42, 2953), (43, 2956), (44, 2962), (47, 2995), (54, 3031), (71, 3124), (72, 3127), (79, 3178), (83, 3256), (84, 3268), (91, 3310), (97, 3361), (103, 3442), (107, 3484), (113, 3565), (128, 3715),

Gene: Samora_3 Start: 2204, Stop: 3595, Start Num: 8

Candidate Starts for Samora_3:

(5, 2168), (Start: 8 @2204 has 51 MA's), (28, 2357), (29, 2366), (38, 2501), (49, 2606), (55, 2636), (57, 2642), (58, 2645), (70, 2711), (73, 2753), (74, 2756), (83, 2867), (84, 2879), (88, 2900), (90, 2915), (100, 3017), (111, 3170), (118, 3257), (122, 3305), (129, 3356), (130, 3374), (131, 3395), (133, 3413),

Gene: SantasSleigh_4 Start: 2695, Stop: 3822, Start Num: 16

Candidate Starts for SantasSleigh_4:

(Start: 16 @2695 has 97 MA's), (21, 2764), (Start: 25 @2800 has 2 MA's), (Start: 27 @2806 has 11 MA's), (30, 2830), (34, 2905), (42, 2977), (43, 2980), (44, 2986), (47, 3019), (54, 3055), (71, 3148), (72, 3151), (79, 3202), (83, 3280), (84, 3292), (91, 3334), (97, 3385), (103, 3466), (107, 3508), (113, 3589), (128, 3739),

Gene: Sara_4 Start: 2659, Stop: 3786, Start Num: 16

Candidate Starts for Sara_4:

(Start: 16 @2659 has 97 MA's), (21, 2728), (Start: 27 @2770 has 11 MA's), (30, 2794), (34, 2869), (42, 2941), (43, 2944), (44, 2950), (47, 2983), (54, 3019), (71, 3112), (72, 3115), (79, 3166), (83, 3244), (84, 3256), (91, 3298), (97, 3349), (103, 3430), (107, 3472), (113, 3553), (128, 3703),

Gene: Scamander_4 Start: 2671, Stop: 3798, Start Num: 16

Candidate Starts for Scamander_4:

(Start: 16 @2671 has 97 MA's), (21, 2740), (Start: 25 @2776 has 2 MA's), (Start: 27 @2782 has 11 MA's), (30, 2806), (34, 2881), (42, 2953), (43, 2956), (44, 2962), (47, 2995), (54, 3031), (71, 3124), (72, 3127), (79, 3178), (83, 3256), (84, 3268), (91, 3310), (97, 3361), (103, 3442), (107, 3484), (113, 3565), (128, 3715),

Gene: Schatzie_10 Start: 5140, Stop: 6363, Start Num: 8

Candidate Starts for Schatzie_10:

(Start: 8 @5140 has 51 MA's), (26, 5266), (40, 5437), (42, 5443), (53, 5521), (72, 5626), (76, 5659), (77, 5662), (78, 5668), (81, 5710), (82, 5731), (97, 5860), (98, 5863), (105, 5956), (107, 5980), (117, 6091), (130, 6238), (134, 6277), (135, 6286), (137, 6301),

Gene: Scrunchy_4 Start: 2671, Stop: 3798, Start Num: 16

Candidate Starts for Scrunchy_4:

(Start: 16 @2671 has 97 MA's), (21, 2740), (Start: 27 @2782 has 11 MA's), (30, 2806), (34, 2881), (42, 2953), (43, 2956), (44, 2962), (47, 2995), (54, 3031), (71, 3124), (72, 3127), (79, 3178), (83, 3256), (84, 3268), (91, 3310), (97, 3361), (103, 3442), (107, 3484), (113, 3565), (128, 3715),

Gene: SeaWolves_4 Start: 2659, Stop: 3786, Start Num: 16

Candidate Starts for SeaWolves_4:

(Start: 16 @2659 has 97 MA's), (21, 2728), (Start: 27 @2770 has 11 MA's), (30, 2794), (34, 2869), (42, 2941), (43, 2944), (44, 2950), (47, 2983), (54, 3019), (71, 3112), (72, 3115), (79, 3166), (83, 3244), (84, 3256), (91, 3298), (97, 3349), (103, 3430), (107, 3472), (113, 3553), (128, 3703),

Gene: Sebastisaurus_3 Start: 2190, Stop: 3551, Start Num: 8

Candidate Starts for Sebastisaurus_3:

(Start: 8 @2190 has 51 MA's), (19, 2265), (20, 2283), (24, 2319), (28, 2343), (38, 2487), (48, 2580), (49, 2592), (52, 2613), (55, 2622), (57, 2628), (58, 2631), (73, 2739), (74, 2742), (86, 2874), (88, 2886), (90, 2901), (99, 2997), (100, 3003), (102, 3027), (111, 3156), (118, 3243), (122, 3291), (123, 3297), (125, 3312), (131, 3381), (134, 3405),

Gene: Shawty_3 Start: 2202, Stop: 3572, Start Num: 8

Candidate Starts for Shawty_3:

(Start: 8 @2202 has 51 MA's), (17, 2241), (24, 2337), (28, 2361), (29, 2370), (30, 2382), (38, 2505), (42, 2535), (46, 2574), (55, 2640), (57, 2646), (58, 2649), (63, 2670), (70, 2715), (73, 2757), (74, 2760), (79, 2793), (83, 2871), (84, 2883), (85, 2886), (88, 2904), (99, 3015), (100, 3021), (106, 3093), (111, 3174), (118, 3261), (122, 3309), (129, 3360), (130, 3378), (134, 3423),

Gene: Sippinontea_4 Start: 2656, Stop: 3783, Start Num: 16

Candidate Starts for Sippinontea_4:

(Start: 9 @2629 has 1 MA's), (Start: 16 @2656 has 97 MA's), (21, 2725), (Start: 25 @2761 has 2 MA's), (Start: 27 @2767 has 11 MA's), (30, 2791), (34, 2866), (42, 2938), (43, 2941), (44, 2947), (47, 2980), (54, 3016), (66, 3064), (71, 3109), (72, 3112), (79, 3163), (83, 3241), (84, 3253), (91, 3295), (97, 3346), (103, 3427), (107, 3469), (113, 3550), (128, 3700),

Gene: Slentz_4 Start: 2671, Stop: 3798, Start Num: 16

Candidate Starts for Slentz_4:

(Start: 16 @2671 has 97 MA's), (21, 2740), (Start: 27 @2782 has 11 MA's), (30, 2806), (34, 2881), (42, 2953), (43, 2956), (44, 2962), (47, 2995), (54, 3031), (71, 3124), (72, 3127), (79, 3178), (83, 3256), (84, 3268), (91, 3310), (97, 3361), (103, 3442), (107, 3484), (113, 3565), (128, 3715),

Gene: Slizam_4 Start: 2698, Stop: 3825, Start Num: 16

Candidate Starts for Slizam_4:

(Start: 16 @2698 has 97 MA's), (21, 2767), (Start: 25 @2803 has 2 MA's), (Start: 27 @2809 has 11 MA's), (30, 2833), (34, 2908), (42, 2980), (43, 2983), (44, 2989), (47, 3022), (54, 3058), (71, 3151), (72, 3154), (79, 3205), (83, 3283), (84, 3295), (91, 3337), (97, 3388), (103, 3469), (107, 3511), (110, 3577), (113, 3592), (128, 3742),

Gene: Snuffles_5 Start: 2868, Stop: 3995, Start Num: 16

Candidate Starts for Snuffles_5:

(Start: 9 @2841 has 1 MA's), (Start: 16 @2868 has 97 MA's), (21, 2937), (Start: 25 @2973 has 2 MA's), (Start: 27 @2979 has 11 MA's), (30, 3003), (34, 3078), (42, 3150), (43, 3153), (44, 3159), (47, 3192), (54, 3228), (71, 3321), (72, 3324), (79, 3375), (83, 3453), (84, 3465), (91, 3507), (97, 3558), (103, 3639), (107, 3681), (110, 3747), (113, 3762), (128, 3912),

Gene: Squint_12 Start: 5184, Stop: 6413, Start Num: 8

Candidate Starts for Squint_12:

(Start: 8 @5184 has 51 MA's), (22, 5277), (26, 5310), (40, 5481), (41, 5484), (42, 5487), (53, 5565), (72, 5676), (75, 5697), (77, 5712), (78, 5718), (87, 5832), (90, 5853), (97, 5910), (98, 5913), (105, 6006), (107, 6030), (110, 6096), (121, 6207), (124, 6234), (132, 6318), (134, 6327), (137, 6351),

Gene: Stem_4 Start: 2698, Stop: 3825, Start Num: 16

Candidate Starts for Stem_4:

(Start: 16 @2698 has 97 MA's), (21, 2767), (Start: 25 @2803 has 2 MA's), (Start: 27 @2809 has 11 MA's), (30, 2833), (34, 2908), (42, 2980), (43, 2983), (44, 2989), (47, 3022), (54, 3058), (71, 3151), (72, 3154), (79, 3205), (83, 3283), (84, 3295), (91, 3337), (97, 3388), (103, 3469), (107, 3511), (110, 3577), (113, 3592), (128, 3742),

Gene: Superphikiman_12 Start: 5434, Stop: 6669, Start Num: 8

Candidate Starts for Superphikiman_12:

(Start: 8 @5434 has 51 MA's), (32, 5620), (37, 5689), (40, 5737), (42, 5743), (53, 5821), (72, 5929), (76, 5962), (77, 5965), (78, 5971), (87, 6085), (90, 6106), (97, 6163), (98, 6166), (105, 6259), (107, 6283), (109, 6334), (110, 6349), (113, 6364), (127, 6508), (134, 6580), (135, 6589),

Gene: TG1_3 Start: 2208, Stop: 3587, Start Num: 8

Candidate Starts for TG1_3:

(Start: 8 @2208 has 51 MA's), (28, 2364), (38, 2508), (42, 2538), (53, 2637), (55, 2643), (56, 2646), (63, 2679), (69, 2721), (71, 2748), (73, 2766), (74, 2769), (83, 2880), (84, 2892), (86, 2901), (88, 2913), (100, 3030), (111, 3183), (118, 3270), (129, 3369), (130, 3387), (131, 3408), (134, 3432),

Gene: TeddyBoy_4 Start: 2671, Stop: 3798, Start Num: 16

Candidate Starts for TeddyBoy_4:

(Start: 16 @2671 has 97 MA's), (21, 2740), (Start: 27 @2782 has 11 MA's), (30, 2806), (34, 2881), (42, 2953), (43, 2956), (44, 2962), (47, 2995), (54, 3031), (71, 3124), (72, 3127), (79, 3178), (83, 3256), (84, 3268), (91, 3310), (97, 3361), (103, 3442), (107, 3484), (113, 3565), (128, 3715),

Gene: Thibault_8 Start: 5396, Stop: 6619, Start Num: 8

Candidate Starts for Thibault_8:

(Start: 8 @5396 has 51 MA's), (26, 5522), (40, 5693), (42, 5699), (53, 5777), (72, 5882), (76, 5915), (77, 5918), (78, 5924), (81, 5966), (82, 5987), (97, 6116), (98, 6119), (105, 6212), (107, 6236), (117, 6347), (130, 6494), (134, 6533), (135, 6542), (137, 6557),

Gene: ThreeRngTarjay_11 Start: 5886, Stop: 7109, Start Num: 8

Candidate Starts for ThreeRngTarjay_11:

(Start: 8 @5886 has 51 MA's), (26, 6012), (40, 6183), (42, 6189), (53, 6267), (72, 6372), (76, 6405), (77, 6408), (78, 6414), (81, 6456), (82, 6477), (97, 6606), (98, 6609), (105, 6702), (107, 6726), (117,

6837), (130, 6984), (134, 7023), (135, 7032), (137, 7047),

Gene: TimoTea_4 Start: 2647, Stop: 3774, Start Num: 16

Candidate Starts for TimoTea_4:

(Start: 16 @2647 has 97 MA's), (21, 2716), (Start: 27 @2758 has 11 MA's), (30, 2782), (34, 2857), (42, 2929), (43, 2932), (44, 2938), (47, 2971), (54, 3007), (71, 3100), (72, 3103), (79, 3154), (83, 3232), (84, 3244), (91, 3286), (97, 3337), (101, 3388), (103, 3418), (107, 3460), (113, 3541), (128, 3691),

Gene: TinyTruffula_4 Start: 2764, Stop: 3891, Start Num: 16

Candidate Starts for TinyTruffula_4:

(Start: 16 @2764 has 97 MA's), (21, 2833), (Start: 25 @2869 has 2 MA's), (Start: 27 @2875 has 11 MA's), (30, 2899), (34, 2974), (42, 3046), (43, 3049), (44, 3055), (47, 3088), (54, 3124), (71, 3217), (72, 3220), (79, 3271), (83, 3349), (84, 3361), (91, 3403), (97, 3454), (103, 3535), (107, 3577), (110, 3643), (113, 3658), (128, 3808),

Gene: TomBrady12_4 Start: 2698, Stop: 3825, Start Num: 16

Candidate Starts for TomBrady12_4:

(Start: 16 @2698 has 97 MA's), (21, 2767), (Start: 25 @2803 has 2 MA's), (Start: 27 @2809 has 11 MA's), (30, 2833), (34, 2908), (42, 2980), (43, 2983), (44, 2989), (47, 3022), (54, 3058), (71, 3151), (72, 3154), (79, 3205), (83, 3283), (84, 3295), (91, 3337), (97, 3388), (103, 3469), (107, 3511), (110, 3577), (113, 3592), (128, 3742),

Gene: Trireme_4 Start: 2764, Stop: 3891, Start Num: 16

Candidate Starts for Trireme_4:

(Start: 16 @2764 has 97 MA's), (21, 2833), (Start: 25 @2869 has 2 MA's), (Start: 27 @2875 has 11 MA's), (30, 2899), (34, 2974), (42, 3046), (43, 3049), (44, 3055), (47, 3088), (54, 3124), (71, 3217), (72, 3220), (79, 3271), (83, 3349), (84, 3361), (91, 3403), (97, 3454), (103, 3535), (107, 3577), (110, 3643), (113, 3658), (128, 3808),

Gene: Typha_11 Start: 6484, Stop: 7815, Start Num: 8

Candidate Starts for Typha_11:

(Start: 8 @6484 has 51 MA's), (10, 6490), (11, 6493), (18, 6541), (23, 6598), (26, 6619), (30, 6646), (36, 6739), (40, 6790), (41, 6793), (42, 6796), (53, 6895), (59, 6913), (60, 6922), (62, 6928), (64, 6949), (72, 7009), (78, 7051), (84, 7150), (90, 7186), (92, 7195), (93, 7198), (97, 7243), (98, 7246), (105, 7339), (107, 7363), (114, 7453), (116, 7471), (117, 7474), (126, 7585), (130, 7621), (132, 7654), (134, 7663), (138, 7699),

Gene: Upsilon_4 Start: 2689, Stop: 3858, Start Num: 16

Candidate Starts for Upsilon_4:

(Start: 16 @2689 has 97 MA's), (21, 2758), (Start: 25 @2794 has 2 MA's), (Start: 27 @2800 has 11 MA's), (30, 2824), (34, 2899), (42, 2971), (43, 2974), (44, 2980), (47, 3013), (54, 3049), (71, 3142), (72, 3145), (79, 3196), (83, 3274), (84, 3286), (91, 3328), (97, 3379), (103, 3460), (107, 3502), (110, 3568), (113, 3583), (127, 3727), (128, 3733),

Gene: Vanisius_4 Start: 2671, Stop: 3798, Start Num: 16

Candidate Starts for Vanisius_4:

(Start: 16 @2671 has 97 MA's), (21, 2740), (Start: 25 @2776 has 2 MA's), (Start: 27 @2782 has 11 MA's), (30, 2806), (34, 2881), (42, 2953), (43, 2956), (44, 2962), (47, 2995), (54, 3031), (71, 3124), (72, 3127), (79, 3178), (83, 3256), (84, 3268), (91, 3310), (97, 3361), (103, 3442), (107, 3484), (113, 3565), (128, 3715),

Gene: Vash_3 Start: 2206, Stop: 3567, Start Num: 8

Candidate Starts for Vash_3:

(1, 2071), (5, 2170), (7, 2179), (Start: 8 @2206 has 51 MA's), (28, 2350), (30, 2371), (38, 2494), (49, 2599), (55, 2629), (57, 2635), (70, 2704), (73, 2746), (74, 2749), (83, 2860), (84, 2872), (85, 2875), (88, 2893), (90, 2908), (100, 3010), (103, 3055), (106, 3082), (111, 3163), (118, 3250), (122, 3298), (129, 3349), (130, 3367), (131, 3388), (133, 3406),

Gene: VitulaEligans_4 Start: 2740, Stop: 3867, Start Num: 16

Candidate Starts for VitulaEligans_4:

(13, 2725), (Start: 16 @2740 has 97 MA's), (21, 2809), (Start: 27 @2851 has 11 MA's), (30, 2875), (34, 2950), (42, 3022), (43, 3025), (44, 3031), (47, 3064), (71, 3193), (72, 3196), (79, 3247), (83, 3325), (84, 3337), (91, 3379), (97, 3430), (101, 3481), (103, 3511), (107, 3553), (113, 3634), (128, 3784),

Gene: Wanda_12 Start: 5407, Stop: 6630, Start Num: 8

Candidate Starts for Wanda_12:

(Start: 8 @5407 has 51 MA's), (26, 5533), (40, 5704), (42, 5710), (53, 5788), (72, 5893), (76, 5926), (77, 5929), (78, 5935), (81, 5977), (82, 5998), (97, 6127), (98, 6130), (105, 6223), (107, 6247), (117, 6358), (130, 6505), (134, 6544), (135, 6553), (137, 6568),

Gene: Witch_4 Start: 2660, Stop: 3787, Start Num: 16

Candidate Starts for Witch_4:

(Start: 16 @2660 has 97 MA's), (21, 2729), (Start: 27 @2771 has 11 MA's), (30, 2795), (34, 2870), (42, 2942), (43, 2945), (44, 2951), (47, 2984), (54, 3020), (71, 3113), (72, 3116), (79, 3167), (83, 3245), (84, 3257), (91, 3299), (97, 3350), (103, 3431), (107, 3473), (113, 3554), (128, 3704),

Gene: Wolfpack_4 Start: 2656, Stop: 3783, Start Num: 16

Candidate Starts for Wolfpack_4:

(Start: 9 @2629 has 1 MA's), (Start: 16 @2656 has 97 MA's), (21, 2725), (Start: 25 @2761 has 2 MA's), (Start: 27 @2767 has 11 MA's), (30, 2791), (34, 2866), (42, 2938), (43, 2941), (44, 2947), (47, 2980), (54, 3016), (66, 3064), (71, 3109), (72, 3112), (79, 3163), (83, 3241), (84, 3253), (91, 3295), (97, 3346), (103, 3427), (107, 3469), (113, 3550), (128, 3700),

Gene: Yami_4 Start: 2647, Stop: 3774, Start Num: 16

Candidate Starts for Yami_4:

(Start: 16 @2647 has 97 MA's), (21, 2716), (Start: 25 @2752 has 2 MA's), (Start: 27 @2758 has 11 MA's), (30, 2782), (34, 2857), (42, 2929), (43, 2932), (44, 2938), (47, 2971), (54, 3007), (71, 3100), (72, 3103), (79, 3154), (83, 3232), (84, 3244), (91, 3286), (97, 3337), (103, 3418), (107, 3460), (110, 3526), (113, 3541), (128, 3691),

Gene: Yasuo_4 Start: 2656, Stop: 3783, Start Num: 16

Candidate Starts for Yasuo_4:

(Start: 16 @2656 has 97 MA's), (21, 2725), (Start: 27 @2767 has 11 MA's), (30, 2791), (34, 2866), (42, 2938), (43, 2941), (44, 2947), (47, 2980), (54, 3016), (71, 3109), (72, 3112), (79, 3163), (83, 3241), (84, 3253), (91, 3295), (97, 3346), (103, 3427), (107, 3469), (113, 3550), (128, 3700),

Gene: Yeet_10 Start: 5140, Stop: 6363, Start Num: 8

Candidate Starts for Yeet_10:

(Start: 8 @5140 has 51 MA's), (26, 5266), (40, 5437), (42, 5443), (53, 5521), (72, 5626), (76, 5659), (77, 5662), (78, 5668), (81, 5710), (82, 5731), (97, 5860), (98, 5863), (105, 5956), (107, 5980), (117, 6091), (130, 6238), (134, 6277), (135, 6286), (137, 6301),

Gene: YertPhresh_4 Start: 2659, Stop: 3786, Start Num: 16

Candidate Starts for YertPhresh_4:

(Start: 16 @2659 has 97 MA's), (21, 2728), (Start: 27 @2770 has 11 MA's), (30, 2794), (34, 2869), (42, 2941), (43, 2944), (44, 2950), (47, 2983), (54, 3019), (71, 3112), (72, 3115), (79, 3166), (83, 3244), (84, 3256), (91, 3298), (97, 3349), (103, 3430), (107, 3472), (113, 3553), (128, 3703),

Gene: Yubaba_4 Start: 2660, Stop: 3787, Start Num: 16

Candidate Starts for Yubaba_4:

(Start: 16 @2660 has 97 MA's), (21, 2729), (Start: 27 @2771 has 11 MA's), (30, 2795), (34, 2870), (42, 2942), (43, 2945), (44, 2951), (47, 2984), (54, 3020), (71, 3113), (72, 3116), (79, 3167), (83, 3245), (84, 3257), (91, 3299), (97, 3350), (103, 3431), (107, 3473), (113, 3554), (128, 3704),

Gene: Zelink_12 Start: 5914, Stop: 7137, Start Num: 8

Candidate Starts for Zelink_12:

(Start: 8 @5914 has 51 MA's), (26, 6040), (40, 6211), (42, 6217), (53, 6295), (72, 6400), (76, 6433), (77, 6436), (78, 6442), (81, 6484), (82, 6505), (97, 6634), (98, 6637), (105, 6730), (107, 6754), (117, 6865), (130, 7012), (134, 7051), (135, 7060), (137, 7075),

Gene: phiBT1_34 Start: 2227, Stop: 3600, Start Num: 8

Candidate Starts for phiBT1_34:

(Start: 8 @2227 has 51 MA's), (28, 2380), (38, 2524), (46, 2593), (49, 2629), (55, 2659), (57, 2665), (63, 2689), (68, 2728), (69, 2731), (73, 2776), (74, 2779), (83, 2890), (84, 2902), (88, 2923), (90, 2938), (97, 3004), (99, 3034), (100, 3040), (111, 3193), (118, 3280), (122, 3328), (130, 3397), (131, 3418), (133, 3436), (134, 3442),