



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 290845 Report

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

Pham number 290845 has 214 members, 23 are drafts.

Phages represented in each track:

- Track 1 : BetaFish_26, Hive_26, Beagle_27, Pointis_26, PhuzzTulsa_24, RIPWilbur_24, DogYard_26, Pureglobe5_28, Popstraw_24, Kubulix_27
- Track 2 : NyleyClemson_22, RazzB_22
- Track 3 : Odyssey395_28
- Track 4 : Forrestell_23, MellowYellow_23
- Track 5 : BayC_13, Salete_13, Maih_13
- Track 6 : TP1604_13, Asis_13, BabyGotBac_13
- Track 7 : Abt2graduatex2_13
- Track 8 : Xkcd426_14
- Track 9 : RainyPolka_13
- Track 10 : YDN12_14
- Track 11 : Mischief19_14
- Track 12 : Jambalaya_19, TillyBobJoe_19, Savbucketdawg_19, Shinji_19, Portcullis_19
- Track 13 : Mutzi_21
- Track 14 : Danyall_21, VanDeWege_22, CoveyB_21, CherryCola_23, Twister6_21, RogerDodger_22, Valary_22
- Track 15 : Salvador_19, SmokingBunny_19, Nubi_19, Evamon_19, Togo_19
- Track 16 : KimmyK_21, PinkCoffee_21, ClamChowder_21, Fugax_21, Barb_21
- Track 17 : Halo3_20
- Track 18 : Gezellig_19, Egi03_19, Fireball_20, Wizard_19
- Track 19 : Arri_22
- Track 20 : Phlop_19, PullumCavea_19
- Track 21 : YungMoney_21
- Track 22 : Bakery_20
- Track 23 : Clown_23
- Track 24 : Baumdotcom_20, Saronaya_20, Gustavo_20
- Track 25 : Lennon_22, Stultus_20, Bibwit_21, Sedona_22, Sitar_22, Ailee_20
- Track 26 : Flatwoods_21, Gaea_20, Tycho_20, Kroos_21, Kwobi_22, Bizzy_21
- Track 27 : Fosterous_18, Love_22, MoontowerMania_19, Brandonk123_22, Shivanishola_20, Kamashten_21, BobBob_18, Sanjuju_18, Charming_18, Tangent_18, Thing3_21, Paries_21, Geodirt_19, Jabberwocky_18
- Track 28 : Kewpiedoll_21, ChadMasterC_20, FuegoCuervo_23, McCrothy_21, Vivi2_20, Barsten_21, Fitzgerald_18, Galadriel_22, McKinley_21
- Track 29 : Ribeye_21
- Track 30 : Derg_16, LilHam_18, SchottB_19
- Track 31 : Ashertheman_21, StorminNorm_20, Tangerine_20

- Track 32 : Affeca_20, Angelicage_20
- Track 33 : JKSyngboy_19
- Track 34 : Rofo_20
- Track 35 : Keitabear_22
- Track 36 : Baddon_20
- Track 37 : Nordenberg_15
- Track 38 : YorkOnyx_21
- Track 39 : RiverRaider_21
- Track 40 : Leonard_21, Ali17_19, Phinally_21
- Track 41 : Belphegor_18
- Track 42 : EMoore_16
- Track 43 : MelBins_22
- Track 44 : Hans_23
- Track 45 : Phauci_14
- Track 46 : Inspectinfecti_22
- Track 47 : Chickadee_20, Tiamoceli_21
- Track 48 : Kwekel_20
- Track 49 : Twonlo_18
- Track 50 : GTE6_20
- Track 51 : RoadKill_18, Dexdert_21, EdmundFerry_19
- Track 52 : Scioto_21, Natkenzie_21, Sampson_21, Abblin_21
- Track 53 : Pumpkiney_23
- Track 54 : DoctorFroggo_21, Zipp_21, Delrey21_21, Verity_21
- Track 55 : ViaConlectus_22
- Track 56 : Zitch_23
- Track 57 : BigHunkinEater_23
- Track 58 : APunk_23
- Track 59 : Tardus_22
- Track 60 : Lilbeanie_18
- Track 61 : Ganandorf_26, Quhwah_30, Jefe_27, BrazzalePHS_26, Cranjis_28, Jollipop_27, PiperSansNom_27, Hermeonysus_26, BeagleBug_26, Onika_26, Busephilis_26, Savannah_26, Selwyn23_28, Lucretia_27, PhedwardCullen_25, PierreOrion_27, Pulchra_28, Piperis_27, Antares_27, Scumberland_28, Shotgun_26, CrazyRich_26, Phorgeous_26, Honeyfin_28, Yeti_27
- Track 62 : Paschalis_26, Rockwell_26, Ramiel05_26, Glorp_28, Kowalski_26
- Track 63 : LittleFortune_28
- Track 64 : Crisis_28, KaiHaiDragon_27, EarickHC_27, Phrancesco_27
- Track 65 : Shrubaron_27, RobsFeet_28
- Track 66 : ClearAsMud_29
- Track 67 : Skugga_25
- Track 68 : Jayden_28
- Track 69 : Ariadne_35, Smarties_35
- Track 70 : SirFrank_26
- Track 71 : Megan_21
- Track 72 : Gina_28, Teamocil_28
- Track 73 : Merry_, Sunny_
- Track 74 : Nicole72_22
- Track 75 : Zapato_26
- Track 76 : Metamorphoo_27
- Track 77 : Tyumbra_25, Fireman_27
- Track 78 : NoodlelyBoi_27
- Track 79 : Matzah_23, Cinna_22
- Track 80 : Terij_23

- Track 81 : Cressida_24
- Track 82 : Kozie_23
- Track 83 : MementoMori_23
- Track 84 : Margaery_22
- Track 85 : Rasputia_56
- Track 86 : Dewdrop_60, Leaf_60
- Track 87 : Hendrix_57
- Track 88 : MisoSoup_18
- Track 89 : FuzzBuster_31
- Track 90 : TurkishDelight_17

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

The start number called the most often in the published annotations is 24, it was called in 111 of the 191 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- APunk_23, Abblin_21, Affeca_20, Ailee_20, Ali17_19, Angelicage_20, Arri_22, Ashertheman_21, Baddon_20, Bakery_20, Barb_21, Barsten_21, Baumdotcom_20, Belphegor_18, Bibwit_21, BigHunkinEater_23, Bizzy_21, BobBob_18, Brandonk123_22, ChadMasterC_20, Charming_18, CherryCola_23, Chickadee_20, ClamChowder_21, Clown_23, CoveyB_21, Danyall_21, Delrey21_21, Derg_16, Dxdert_21, DoctorFroggo_21, EMOore_16, EdmundFerry_19, Egi03_19, Evamon_19, Fireball_20, Fitzgerald_18, Flatwoods_21, Fosterous_18, FuegoCuervo_23, Fugax_21, GTE6_20, Gaea_20, Galadriel_22, Geodirt_19, Gezellig_19, Gustavo_20, Halo3_20, Hans_23, Inspectinfecti_22, JKSyngboy_19, Jabberwocky_18, Jambalaya_19, Kamashten_21, Keitabear_22, Kewpiedoll_21, KimmyK_21, Kroos_21, Kwekel_20, Kwobi_22, Lennon_22, Leonard_21, LilHam_18, Lilbeanie_18, Love_22, McCrothy_21, McKinley_21, MelBins_22, MoontowerMania_19, Mutzi_21, Natkenzie_21, Nordenberg_15, Nubi_19, Paries_21, Phauci_14, Phinally_21, Phlop_19, PinkCoffee_21, Portcullis_19, PullumCavea_19, Pumpkiney_23, Ribeye_21, RiverRaider_21, RoadKill_18, Rofo_20, RogerDodger_22, Salvador_19, Sampson_21, Sanjuju_18, Saronaya_20, Savbucketdawg_19, SchottB_19, Scioto_21, Sedona_22, Shinji_19, Shivanishola_20, Sitar_22, SmokingBunny_19, StorminNorm_20, Stultus_20, Tangent_18, Tangerine_20, Tardus_22, Thing3_21, Tiamoceli_21, TillyBobJoe_19, Togo_19, Twister6_21, Twonlo_18, Tycho_20, Valary_22, VanDeWege_22, Verity_21, ViaConlectus_22, Vivi2_20, Wizard_19, YorkOnyx_21, YungMoney_21, Zipp_21, Zitch_23,

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

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

- Abt2graduatex2_13, Antares_27, Ariadne_35, Asis_13, BabyGotBac_13, BayC_13, BeagleBug_26, Beagle_27, BetaFish_26, BrazzalePHS_26, Busephillis_26, Cinna_22, ClearAsMud_29, Cranjis_28, CrazyRich_26, Cressida_24, Crisis_28, Dewdrop_60, DogYard_26, EarickHC_27, Fireman_27, Forrestell_23, FuzzBuster_31, Ganandorf_26, Gina_28, Glorp_28, Hendrix_57, Hermeonysus_26, Hive_26, Honeyfin_28, Jayden_28, Jefe_27, Jollipop_27, KaiHaiDragon_27,

Kowalski_26, Kozie_23, Kubulix_27, Leaf_60, LittleFortune_28, Lucretia_27, Maih_13, Margaery_22, Matzah_23, Megan_21, MellowYellow_23, MementoMori_23, Merry_, Metamorphoo_27, Mischief19_14, MisoSoup_18, Nicole72_22, NoodlelyBoi_27, NyleyClemson_22, Odyssey395_28, Onika_26, Paschalis_26, PhedwardCullen_25, Phorgeous_26, Phrancesco_27, PhuzzTulsa_24, PierreOrion_27, PiperSansNom_27, Piperis_27, Pointis_26, Popstraw_24, Pulchra_28, Pureglobe5_28, Quhwah_30, RIPWilbur_24, RainyPolka_13, Ramiel05_26, Rasputia_56, RazzB_22, RobsFeet_28, Rockwell_26, Salete_13, Savannah_26, Scumberland_28, Selwyn23_28, Shotgun_26, Shrubaron_27, SirFrank_26, Skugga_25, Smarties_35, Sunny_, TP1604_13, Teamocil_28, Terij_23, TurkishDelight_17, Tyrumbra_25, Xkcd426_14, YDN12_14, Yeti_27, Zapato_26,

Summary by start number:

Start 9:

- Found in 1 of 214 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 191
- Called 100.0% of time when present
- Phage (with cluster) where this start called: FuzzBuster_31 (GM),

Start 15:

- Found in 2 of 214 (0.9%) of genes in pham
- Manual Annotations of this start: 2 of 191
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Merry_ (EC), Sunny_ (EC),

Start 20:

- Found in 65 of 214 (30.4%) of genes in pham
- Manual Annotations of this start: 56 of 191
- Called 96.9% of time when present
- Phage (with cluster) where this start called: Antares_27 (EC), Ariadne_35 (EC), BeagleBug_26 (EC), BrazzalePHS_26 (EC), Busephilis_26 (EC), Cinna_22 (EI), ClearAsMud_29 (EC), Cranjis_28 (EC), CrazyRich_26 (EC), Cressida_24 (EI), Crisis_28 (EC), Dewdrop_60 (GC), EarickHC_27 (EC), Fireman_27 (EC), Ganandorf_26 (EC), Gina_28 (EC), Glorp_28 (EC), Hendrix_57 (GC), Hermeonysus_26 (EC), Honeyfin_28 (EC), Jayden_28 (EC), Jefe_27 (EC), Jollipop_27 (EC), KaiHaiDragon_27 (EC), Kowalski_26 (EC), Kozi_23 (EI), Leaf_60 (GC), LittleFortune_28 (EC), Lucretia_27 (EC), Margaery_22 (EI), Matzah_23 (EI), Megan_21 (EC), MementoMori_23 (EI), Metamorphoo_27 (EC), Nicole72_22 (EC), NoodlelyBoi_27 (EC), Onika_26 (EC), Paschalis_26 (EC), PhedwardCullen_25 (EC), Phorgeous_26 (EC), Phrancesco_27 (EC), PierreOrion_27 (EC), PiperSansNom_27 (EC), Piperis_27 (EC), Pulchra_28 (EC), Quhwah_30 (EC), Ramiel05_26 (EC), Rasputia_56 (GC), RobsFeet_28 (EC), Rockwell_26 (EC), Savannah_26 (EC), Scumberland_28 (EC), Selwyn23_28 (EC), Shotgun_26 (EC), Shrubaron_27 (EC), SirFrank_26 (EC), Skugga_25 (EC), Smarties_35 (EC), Teamocil_28 (EC), Terij_23 (EI), Tyrumbra_25 (EC), Yeti_27 (EC), Zapato_26 (EC),

Start 21:

- Found in 2 of 214 (0.9%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: MisoSoup_18 (GM),

Start 24:

- Found in 120 of 214 (56.1%) of genes in pham
- Manual Annotations of this start: 111 of 191
- Called 100.0% of time when present
- Phage (with cluster) where this start called: APunk_23 (DE4), Abblin_21 (DE4), Affeca_20 (DE1), Ailee_20 (DE1), Ali17_19 (DE2), Angelicage_20 (DE1), Arri_22 (DC1), Ashertheman_21 (DE1), Baddon_20 (DE1), Bakery_20 (DC1), Barb_21 (DC1), Barsten_21 (DE1), Baumdotcom_20 (DE1), Belphegor_18 (DE2), Bibwit_21 (DE1), BigHunkinEater_23 (DE4), Bizzy_21 (DE1), BobBob_18 (DE1), Brandonk123_22 (DE1), ChadMasterC_20 (DE1), Charming_18 (DE1), CherryCola_23 (DC1), Chickadee_20 (DE3), ClamChowder_21 (DC1), Clown_23 (DC2), CoveyB_21 (DC1), Danyall_21 (DC1), Delrey21_21 (DE4), Derg_16 (DE1), Dextert_21 (DE3), DoctorFroggo_21 (DE4), EMOore_16 (DE2), EdmundFerry_19 (DE3), Egi03_19 (DC1), Evamon_19 (DC1), Fireball_20 (DC1), Fitzgerald_18 (DE1), Flatwoods_21 (DE1), Fosterous_18 (DE1), FuegoCuervo_23 (DE1), Fugax_21 (DC1), GTE6_20 (DE3), Gaea_20 (DE1), Galadriel_22 (DE1), Geodirt_19 (DE1), Gezellig_19 (DC1), Gustavo_20 (DE1), Halo3_20 (DC1), Hans_23 (DE2), Inspectinfecti_22 (DE2), JKSyngboy_19 (DE1), Jabberwocky_18 (DE1), Jambalaya_19 (DC1), Kamashten_21 (DE1), Keitabear_22 (DE1), Kewpiedoll_21 (DE1), KimmyK_21 (DC1), Kroos_21 (DE1), Kwekel_20 (DE3), Kwobi_22 (DE1), Lennon_22 (DE1), Leonard_21 (DE2), LilHam_18 (DE1), Lilbeanie_18 (DE5), Love_22 (DE1), McCrothy_21 (DE1), McKinley_21 (DE1), MelBins_22 (DE2), MoontowerMania_19 (DE1), Mutzi_21 (DC1), Natkenzie_21 (DE4), Nordenberg_15 (DE1), Nubi_19 (DC1), Paries_21 (DE1), Phauci_14 (DE2), Phinally_21 (DE2), Phlop_19 (DC1), PinkCoffee_21 (DC1), Portcullis_19 (DC1), PullumCavea_19 (DC1), Pumpkiney_23 (DE4), Ribeye_21 (DE1), RiverRaider_21 (DE1), RoadKill_18 (DE3), Rofo_20 (DE1), RogerDodger_22 (DC1), Salvador_19 (DC1), Sampson_21 (DE4), Sanjuju_18 (DE1), Saronaya_20 (DE1), Savbucketdawg_19 (DC1), SchottB_19 (DE1), Scioto_21 (DE4), Sedona_22 (DE1), Shinji_19 (DC1), Shivanishola_20 (DE1), Sitar_22 (DE1), SmokingBunny_19 (DC1), StorminNorm_20 (DE1), Stultus_20 (DE1), Tangent_18 (DE1), Tangerine_20 (DE1), Tardus_22 (DE4), Thing3_21 (DE1), Tiamoceli_21 (DE3), TillyBobJoe_19 (DC1), Togo_19 (DC1), Twister6_21 (DC1), Twonlo_18 (DE3), Tycho_20 (DE1), Valary_22 (DC1), VanDeWege_22 (DC1), Verity_21 (DE4), ViaConlectus_22 (DE4), Vivi2_20 (DE1), Wizard_19 (DC1), YorkOnyx_21 (DE1), YungMoney_21 (DC1), Zipp_21 (DE4), Zitch_23 (DE4),

Start 29:

- Found in 15 of 214 (7.0%) of genes in pham
- Manual Annotations of this start: 9 of 191
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beagle_27 (AP2), BetaFish_26 (AP2), DogYard_26 (AP2), Forrestell_23 (AP2), Hive_26 (AP2), Kubulix_27 (AP2), MellowYellow_23 (AP2), NyleyClemson_22 (AP2), Odyssey395_28 (AP2), PhuzzTulsa_24 (AP2), Pointis_26 (AP2), Popstraw_24 (AP2), Pureglobe5_28 (AP2), RIPWilbur_24 (AP2), RazzB_22 (AP2),

Start 30:

- Found in 19 of 214 (8.9%) of genes in pham
- Manual Annotations of this start: 12 of 191
- Called 63.2% of time when present
- Phage (with cluster) where this start called: Abt2graduatex2_13 (BG), Asis_13 (BG), BabyGotBac_13 (BG), BayC_13 (BG), Maih_13 (BG), Mischief19_14 (BG), RainyPolka_13 (BG), Salete_13 (BG), TP1604_13 (BG), TurkishDelight_17

(singleton), Xkcd426_14 (BG), YDN12_14 (BG),

Summary by clusters:

There are 14 clusters represented in this pham: singleton, BG, EI, AP2, DE1, DE2, DE3, DE4, DE5, EC, GC, GM, DC2, DC1,

Info for manual annotations of cluster AP2:

- Start number 29 was manually annotated 9 times for cluster AP2.

Info for manual annotations of cluster BG:

- Start number 30 was manually annotated 11 times for cluster BG.

Info for manual annotations of cluster DC1:

- Start number 24 was manually annotated 31 times for cluster DC1.

Info for manual annotations of cluster DC2:

- Start number 24 was manually annotated 1 time for cluster DC2.

Info for manual annotations of cluster DE1:

- Start number 24 was manually annotated 53 times for cluster DE1.

Info for manual annotations of cluster DE2:

- Start number 24 was manually annotated 9 times for cluster DE2.

Info for manual annotations of cluster DE3:

- Start number 24 was manually annotated 7 times for cluster DE3.

Info for manual annotations of cluster DE4:

- Start number 24 was manually annotated 9 times for cluster DE4.

Info for manual annotations of cluster DE5:

- Start number 24 was manually annotated 1 time for cluster DE5.

Info for manual annotations of cluster EC:

- Start number 15 was manually annotated 2 times for cluster EC.
- Start number 20 was manually annotated 45 times for cluster EC.

Info for manual annotations of cluster EI:

- Start number 20 was manually annotated 7 times for cluster EI.

Info for manual annotations of cluster GC:

- Start number 20 was manually annotated 4 times for cluster GC.

Info for manual annotations of cluster GM:

- Start number 9 was manually annotated 1 time for cluster GM.

Gene Information:

Gene: APunk_23 Start: 16314, Stop: 18233, Start Num: 24

Candidate Starts for APunk_23:

(Start: 24 @16314 has 111 MA's), (41, 16530), (43, 16545), (55, 16719), (72, 16866), (78, 16935), (79, 16941), (88, 16995), (92, 17019), (134, 17271), (137, 17289), (138, 17295), (145, 17358), (147, 17370), (148, 17373), (150, 17385), (166, 17475), (171, 17502), (193, 17661), (202, 17739), (218, 17835), (251, 18105), (259, 18150),

Gene: Abblin_21 Start: 15527, Stop: 17449, Start Num: 24

Candidate Starts for Abblin_21:

(Start: 24 @15527 has 111 MA's), (41, 15743), (43, 15758), (55, 15932), (71, 16070), (72, 16079), (78, 16148), (79, 16154), (88, 16208), (92, 16232), (134, 16484), (137, 16502), (138, 16508), (145, 16571), (147, 16583), (148, 16586), (150, 16598), (166, 16688), (171, 16715), (193, 16874), (202, 16952), (218, 17048), (222, 17084), (234, 17204), (238, 17237), (251, 17321), (259, 17366),

Gene: Abt2graduatex2_13 Start: 13868, Stop: 15571, Start Num: 30

Candidate Starts for Abt2graduatex2_13:

(Start: 30 @13868 has 12 MA's), (31, 13877), (36, 13964), (51, 14111), (53, 14135), (73, 14318), (82, 14372), (86, 14402), (93, 14432), (94, 14435), (108, 14483), (114, 14519), (124, 14564), (129, 14606), (133, 14675), (166, 14855), (179, 14933), (180, 14936), (199, 15086), (203, 15128), (213, 15188), (217, 15209), (236, 15341), (245, 15398), (249, 15419), (253, 15461), (255, 15467), (270, 15542),

Gene: Affeca_20 Start: 15348, Stop: 17258, Start Num: 24

Candidate Starts for Affeca_20:

(Start: 24 @15348 has 111 MA's), (43, 15579), (47, 15597), (65, 15867), (83, 16005), (95, 16074), (103, 16107), (137, 16332), (138, 16338), (147, 16413), (148, 16416), (150, 16428), (162, 16464), (166, 16515), (184, 16638), (188, 16674), (207, 16818), (216, 16869), (235, 17013), (236, 17016), (237, 17019), (244, 17067), (251, 17124),

Gene: Ailee_20 Start: 15256, Stop: 17172, Start Num: 24

Candidate Starts for Ailee_20:

(Start: 24 @15256 has 111 MA's), (43, 15487), (47, 15505), (65, 15781), (83, 15919), (95, 15988), (103, 16021), (137, 16246), (138, 16252), (145, 16315), (147, 16327), (148, 16330), (150, 16342), (166, 16429), (184, 16552), (188, 16588), (207, 16732), (216, 16783), (235, 16927), (236, 16930), (237, 16933), (244, 16981), (251, 17038), (271, 17155),

Gene: Ali17_19 Start: 14661, Stop: 16580, Start Num: 24

Candidate Starts for Ali17_19:

(Start: 24 @14661 has 111 MA's), (39, 14862), (52, 14985), (65, 15156), (72, 15201), (74, 15222), (83, 15279), (111, 15405), (118, 15456), (121, 15465), (128, 15516), (130, 15567), (137, 15630), (138, 15636), (145, 15699), (150, 15726), (166, 15813), (192, 15996), (201, 16071), (204, 16086), (207, 16110), (213, 16143), (216, 16161), (223, 16218), (234, 16329), (246, 16398), (247, 16410), (251, 16446), (263, 16512),

Gene: Angelicage_20 Start: 15771, Stop: 17681, Start Num: 24

Candidate Starts for Angelicage_20:

(Start: 24 @15771 has 111 MA's), (43, 16002), (47, 16020), (65, 16290), (83, 16428), (95, 16497), (103, 16530), (137, 16755), (138, 16761), (147, 16836), (148, 16839), (150, 16851), (162, 16887), (166, 16938), (184, 17061), (188, 17097), (207, 17241), (216, 17292), (235, 17436), (236, 17439), (237, 17442), (244, 17490), (251, 17547),

Gene: Antares_27 Start: 14003, Stop: 15859, Start Num: 20

Candidate Starts for Antares_27:

(Start: 20 @14003 has 56 MA's), (75, 14579), (81, 14624), (86, 14660), (102, 14729), (109, 14750), (110, 14753), (114, 14783), (131, 14903), (140, 14984), (161, 15098), (163, 15125), (189, 15314), (205, 15440), (223, 15554), (224, 15569), (237, 15617), (241, 15647), (243, 15659), (246, 15674),

(248, 15689), (254, 15740), (258, 15758), (262, 15776),

Gene: Ariadne_35 Start: 15581, Stop: 17596, Start Num: 20

Candidate Starts for Ariadne_35:

(Start: 20 @15581 has 56 MA's), (75, 16160), (81, 16205), (86, 16241), (91, 16265), (102, 16310), (109, 16331), (112, 16349), (131, 16484), (159, 16814), (160, 16817), (163, 16874), (164, 16898), (184, 17036), (189, 17063), (204, 17174), (223, 17303), (224, 17318), (227, 17327), (234, 17354), (237, 17366), (241, 17396), (246, 17423), (258, 17507), (262, 17525),

Gene: Arri_22 Start: 12537, Stop: 14423, Start Num: 24

Candidate Starts for Arri_22:

(Start: 24 @12537 has 111 MA's), (44, 12774), (47, 12786), (49, 12840), (67, 13062), (89, 13224), (97, 13257), (138, 13509), (146, 13581), (162, 13638), (163, 13650), (179, 13767), (184, 13812), (185, 13815), (201, 13938), (203, 13950), (213, 14010), (228, 14112), (234, 14163), (236, 14172), (247, 14244), (250, 14274), (263, 14346), (267, 14370),

Gene: Ashertheman_21 Start: 14855, Stop: 16762, Start Num: 24

Candidate Starts for Ashertheman_21:

(Start: 24 @14855 has 111 MA's), (33, 14990), (43, 15086), (65, 15368), (74, 15437), (78, 15485), (83, 15509), (88, 15545), (95, 15578), (100, 15602), (121, 15695), (137, 15836), (138, 15842), (145, 15905), (147, 15917), (148, 15920), (150, 15932), (166, 16019), (184, 16142), (188, 16178), (201, 16283), (207, 16322), (216, 16373), (234, 16511), (235, 16517), (236, 16520), (244, 16571), (251, 16628), (252, 16640), (255, 16649), (272, 16748),

Gene: Asis_13 Start: 13751, Stop: 15445, Start Num: 30

Candidate Starts for Asis_13:

(Start: 30 @13751 has 12 MA's), (31, 13760), (37, 13862), (51, 13994), (53, 14018), (58, 14114), (73, 14195), (80, 14240), (82, 14249), (87, 14282), (93, 14309), (94, 14312), (108, 14360), (113, 14393), (114, 14396), (122, 14435), (124, 14441), (131, 14519), (133, 14552), (147, 14642), (164, 14717), (166, 14732), (176, 14798), (179, 14810), (180, 14813), (194, 14930), (199, 14963), (203, 15005), (220, 15122), (236, 15218), (245, 15275), (249, 15296), (253, 15338), (255, 15344), (262, 15377), (265, 15401), (270, 15419), (272, 15434),

Gene: BabyGotBac_13 Start: 13751, Stop: 15445, Start Num: 30

Candidate Starts for BabyGotBac_13:

(Start: 30 @13751 has 12 MA's), (31, 13760), (37, 13862), (51, 13994), (53, 14018), (58, 14114), (73, 14195), (80, 14240), (82, 14249), (87, 14282), (93, 14309), (94, 14312), (108, 14360), (113, 14393), (114, 14396), (122, 14435), (124, 14441), (131, 14519), (133, 14552), (147, 14642), (164, 14717), (166, 14732), (176, 14798), (179, 14810), (180, 14813), (194, 14930), (199, 14963), (203, 15005), (220, 15122), (236, 15218), (245, 15275), (249, 15296), (253, 15338), (255, 15344), (262, 15377), (265, 15401), (270, 15419), (272, 15434),

Gene: Baddon_20 Start: 15702, Stop: 17609, Start Num: 24

Candidate Starts for Baddon_20:

(Start: 24 @15702 has 111 MA's), (33, 15837), (36, 15870), (43, 15933), (65, 16215), (74, 16284), (78, 16332), (83, 16356), (95, 16425), (100, 16449), (121, 16542), (137, 16683), (138, 16689), (145, 16752), (147, 16764), (148, 16767), (150, 16779), (166, 16866), (184, 16989), (188, 17025), (193, 17058), (197, 17088), (201, 17130), (207, 17169), (216, 17220), (235, 17364), (236, 17367), (244, 17418), (251, 17475), (252, 17487), (255, 17496), (259, 17520),

Gene: Bakery_20 Start: 11735, Stop: 13636, Start Num: 24

Candidate Starts for Bakery_20:

(Start: 24 @11735 has 111 MA's), (44, 11972), (47, 11984), (49, 12038), (89, 12425), (97, 12458), (103, 12482), (121, 12563), (127, 12590), (138, 12728), (162, 12857), (163, 12869), (166, 12908), (179, 12986), (184, 13031), (185, 13034), (188, 13055), (194, 13097), (197, 13118), (201, 13160), (203, 13172), (247, 13466), (250, 13496), (254, 13520), (260, 13550),

Gene: Barb_21 Start: 12512, Stop: 14410, Start Num: 24

Candidate Starts for Barb_21:

(Start: 24 @12512 has 111 MA's), (44, 12749), (47, 12761), (49, 12815), (89, 13208), (97, 13241), (103, 13265), (138, 13505), (162, 13634), (163, 13646), (179, 13763), (184, 13808), (185, 13811), (194, 13871), (196, 13889), (201, 13934), (203, 13946), (204, 13949), (206, 13970), (222, 14069), (228, 14108), (236, 14168), (247, 14240), (250, 14270), (254, 14294), (259, 14321), (260, 14324), (264, 14351),

Gene: Barsten_21 Start: 15284, Stop: 17188, Start Num: 24

Candidate Starts for Barsten_21:

(Start: 24 @15284 has 111 MA's), (43, 15515), (47, 15533), (65, 15800), (83, 15938), (95, 16007), (103, 16040), (137, 16265), (138, 16271), (145, 16334), (147, 16346), (148, 16349), (150, 16361), (166, 16448), (184, 16571), (188, 16607), (207, 16751), (216, 16802), (235, 16946), (236, 16949), (237, 16952), (244, 17000), (251, 17057),

Gene: Baumdotcom_20 Start: 14471, Stop: 16378, Start Num: 24

Candidate Starts for Baumdotcom_20:

(Start: 24 @14471 has 111 MA's), (33, 14606), (43, 14702), (65, 14984), (74, 15053), (78, 15101), (83, 15125), (88, 15161), (95, 15194), (100, 15218), (121, 15311), (137, 15452), (138, 15458), (145, 15521), (147, 15533), (148, 15536), (150, 15548), (166, 15635), (184, 15758), (188, 15794), (201, 15899), (207, 15938), (216, 15989), (234, 16127), (235, 16133), (236, 16136), (244, 16187), (251, 16244), (252, 16256), (255, 16265),

Gene: BayC_13 Start: 13751, Stop: 15445, Start Num: 30

Candidate Starts for BayC_13:

(Start: 30 @13751 has 12 MA's), (31, 13760), (37, 13862), (51, 13994), (53, 14018), (58, 14114), (73, 14195), (80, 14240), (82, 14249), (87, 14282), (93, 14309), (94, 14312), (108, 14360), (113, 14393), (114, 14396), (122, 14435), (124, 14441), (131, 14519), (133, 14552), (147, 14642), (166, 14732), (176, 14798), (179, 14810), (180, 14813), (194, 14930), (199, 14963), (203, 15005), (220, 15122), (236, 15218), (245, 15275), (253, 15338), (255, 15344), (262, 15377), (265, 15401), (270, 15419), (272, 15434),

Gene: Beagle_27 Start: 14234, Stop: 15961, Start Num: 29

Candidate Starts for Beagle_27:

(23, 14171), (Start: 29 @14234 has 9 MA's), (96, 14843), (141, 15131), (143, 15143), (149, 15173), (167, 15269), (168, 15272), (169, 15275), (177, 15335), (200, 15497), (209, 15557), (210, 15563), (213, 15581), (222, 15644), (239, 15755), (254, 15854),

Gene: BeagleBug_26 Start: 13781, Stop: 15640, Start Num: 20

Candidate Starts for BeagleBug_26:

(Start: 20 @13781 has 56 MA's), (75, 14360), (81, 14405), (86, 14441), (102, 14510), (109, 14531), (110, 14534), (114, 14564), (131, 14684), (140, 14765), (161, 14879), (163, 14906), (189, 15095), (205, 15221), (223, 15335), (224, 15350), (237, 15398), (241, 15428), (243, 15440), (246, 15455), (248, 15470), (254, 15521), (258, 15539), (262, 15557),

Gene: Belphegor_18 Start: 13765, Stop: 15693, Start Num: 24

Candidate Starts for Belphegor_18:

(Start: 24 @13765 has 111 MA's), (39, 13969), (45, 14008), (52, 14092), (66, 14272), (83, 14392), (100, 14485), (118, 14569), (121, 14578), (128, 14629), (130, 14680), (137, 14743), (138, 14749), (145, 14812), (150, 14839), (166, 14926), (201, 15184), (204, 15199), (207, 15223), (216, 15274), (223, 15331), (233, 15427), (234, 15442), (246, 15511), (247, 15523), (251, 15559), (261, 15610),

Gene: BetaFish_26 Start: 14437, Stop: 16164, Start Num: 29

Candidate Starts for BetaFish_26:

(23, 14374), (Start: 29 @14437 has 9 MA's), (96, 15046), (141, 15334), (143, 15346), (149, 15376), (167, 15472), (168, 15475), (169, 15478), (177, 15538), (200, 15700), (209, 15760), (210, 15766), (213, 15784), (222, 15847), (239, 15958), (254, 16057),

Gene: Bibwit_21 Start: 15528, Stop: 17423, Start Num: 24

Candidate Starts for Bibwit_21:

(Start: 24 @15528 has 111 MA's), (43, 15759), (47, 15777), (65, 16032), (83, 16170), (95, 16239), (103, 16272), (137, 16497), (138, 16503), (145, 16566), (147, 16578), (148, 16581), (150, 16593), (166, 16680), (184, 16803), (188, 16839), (207, 16983), (216, 17034), (235, 17178), (236, 17181), (237, 17184), (244, 17232), (251, 17289), (271, 17406),

Gene: BigHunkinEater_23 Start: 14639, Stop: 16555, Start Num: 24

Candidate Starts for BigHunkinEater_23:

(Start: 24 @14639 has 111 MA's), (41, 14855), (43, 14870), (55, 15044), (72, 15191), (78, 15257), (79, 15263), (88, 15317), (92, 15341), (98, 15365), (134, 15593), (137, 15611), (138, 15617), (145, 15680), (147, 15692), (148, 15695), (150, 15707), (166, 15797), (171, 15824), (193, 15983), (202, 16061), (218, 16157), (251, 16427), (254, 16445), (260, 16475),

Gene: Bizzy_21 Start: 14750, Stop: 16663, Start Num: 24

Candidate Starts for Bizzy_21:

(Start: 24 @14750 has 111 MA's), (33, 14885), (43, 14981), (65, 15269), (74, 15338), (78, 15386), (83, 15410), (88, 15446), (95, 15479), (100, 15503), (121, 15596), (137, 15737), (138, 15743), (145, 15806), (147, 15818), (148, 15821), (150, 15833), (166, 15920), (184, 16043), (188, 16079), (193, 16112), (201, 16184), (207, 16223), (216, 16274), (234, 16412), (235, 16418), (236, 16421), (244, 16472), (251, 16529), (252, 16541), (255, 16550),

Gene: BobBob_18 Start: 14138, Stop: 16045, Start Num: 24

Candidate Starts for BobBob_18:

(Start: 24 @14138 has 111 MA's), (43, 14369), (47, 14387), (65, 14654), (83, 14792), (95, 14861), (103, 14894), (137, 15119), (138, 15125), (145, 15188), (147, 15200), (148, 15203), (150, 15215), (166, 15302), (174, 15356), (184, 15425), (188, 15461), (207, 15605), (216, 15656), (235, 15800), (236, 15803), (237, 15806), (244, 15854), (251, 15911),

Gene: Brandonk123_22 Start: 14830, Stop: 16737, Start Num: 24

Candidate Starts for Brandonk123_22:

(Start: 24 @14830 has 111 MA's), (43, 15061), (47, 15079), (65, 15346), (83, 15484), (95, 15553), (103, 15586), (137, 15811), (138, 15817), (145, 15880), (147, 15892), (148, 15895), (150, 15907), (166, 15994), (174, 16048), (184, 16117), (188, 16153), (207, 16297), (216, 16348), (235, 16492), (236, 16495), (237, 16498), (244, 16546), (251, 16603),

Gene: BrazzalePHS_26 Start: 13795, Stop: 15654, Start Num: 20

Candidate Starts for BrazzalePHS_26:

(Start: 20 @13795 has 56 MA's), (75, 14374), (81, 14419), (86, 14455), (102, 14524), (109, 14545), (110, 14548), (114, 14578), (131, 14698), (140, 14779), (161, 14893), (163, 14920), (189, 15109), (205, 15235), (223, 15349), (224, 15364), (237, 15412), (241, 15442), (243, 15454), (246, 15469), (248, 15484), (254, 15535), (258, 15553), (262, 15571),

Gene: Busephilis_26 Start: 13734, Stop: 15590, Start Num: 20

Candidate Starts for Busephilis_26:

(Start: 20 @13734 has 56 MA's), (75, 14310), (81, 14355), (86, 14391), (102, 14460), (109, 14481), (110, 14484), (114, 14514), (131, 14634), (140, 14715), (161, 14829), (163, 14856), (189, 15045), (205, 15171), (223, 15285), (224, 15300), (237, 15348), (241, 15378), (243, 15390), (246, 15405), (248, 15420), (254, 15471), (258, 15489), (262, 15507),

Gene: ChadMasterC_20 Start: 15249, Stop: 17144, Start Num: 24

Candidate Starts for ChadMasterC_20:

(Start: 24 @15249 has 111 MA's), (43, 15480), (47, 15498), (65, 15753), (83, 15891), (95, 15960), (103, 15993), (137, 16218), (138, 16224), (145, 16287), (147, 16299), (148, 16302), (150, 16314), (166, 16401), (184, 16524), (188, 16560), (207, 16704), (216, 16755), (235, 16899), (236, 16902), (237, 16905), (244, 16953), (251, 17010),

Gene: Charming_18 Start: 14140, Stop: 16047, Start Num: 24

Candidate Starts for Charming_18:

(Start: 24 @14140 has 111 MA's), (43, 14371), (47, 14389), (65, 14656), (83, 14794), (95, 14863), (103, 14896), (137, 15121), (138, 15127), (145, 15190), (147, 15202), (148, 15205), (150, 15217), (166, 15304), (174, 15358), (184, 15427), (188, 15463), (207, 15607), (216, 15658), (235, 15802), (236, 15805), (237, 15808), (244, 15856), (251, 15913),

Gene: CherryCola_23 Start: 12733, Stop: 14619, Start Num: 24

Candidate Starts for CherryCola_23:

(Start: 24 @12733 has 111 MA's), (44, 12970), (47, 12982), (49, 13036), (67, 13258), (89, 13420), (97, 13453), (138, 13705), (146, 13777), (162, 13834), (163, 13846), (179, 13963), (184, 14008), (185, 14011), (201, 14134), (203, 14146), (213, 14206), (234, 14359), (236, 14368), (247, 14440), (250, 14470), (263, 14542), (267, 14566),

Gene: Chickadee_20 Start: 13744, Stop: 15633, Start Num: 24

Candidate Starts for Chickadee_20:

(22, 13735), (Start: 24 @13744 has 111 MA's), (Start: 30 @13810 has 12 MA's), (43, 13978), (47, 13996), (67, 14269), (78, 14365), (116, 14557), (120, 14572), (130, 14650), (138, 14719), (145, 14782), (147, 14794), (148, 14797), (164, 14881), (166, 14896), (181, 14995), (188, 15049), (201, 15154), (216, 15244), (226, 15325), (234, 15382), (247, 15463), (251, 15499), (263, 15565),

Gene: Cinna_22 Start: 13276, Stop: 15141, Start Num: 20

Candidate Starts for Cinna_22:

(Start: 20 @13276 has 56 MA's), (54, 13630), (60, 13756), (79, 13894), (86, 13936), (106, 14017), (109, 14026), (119, 14083), (123, 14095), (137, 14227), (139, 14248), (140, 14254), (161, 14368), (172, 14467), (173, 14485), (189, 14584), (191, 14599), (198, 14641), (204, 14695), (205, 14710), (213, 14752), (216, 14767), (218, 14779), (223, 14824), (234, 14887), (238, 14920),

Gene: ClamChowder_21 Start: 12512, Stop: 14410, Start Num: 24

Candidate Starts for ClamChowder_21:

(Start: 24 @12512 has 111 MA's), (44, 12749), (47, 12761), (49, 12815), (89, 13208), (97, 13241), (103, 13265), (138, 13505), (162, 13634), (163, 13646), (179, 13763), (184, 13808), (185, 13811), (194, 13871), (196, 13889), (201, 13934), (203, 13946), (204, 13949), (206, 13970), (222, 14069), (228, 14108), (236, 14168), (247, 14240), (250, 14270), (254, 14294), (259, 14321), (260, 14324), (264, 14351),

Gene: ClearAsMud_29 Start: 14527, Stop: 16377, Start Num: 20

Candidate Starts for ClearAsMud_29:

(Start: 20 @14527 has 56 MA's), (75, 15103), (81, 15148), (86, 15184), (102, 15253), (109, 15274), (110, 15277), (114, 15307), (131, 15427), (163, 15649), (167, 15694), (189, 15838), (211, 15994), (223, 16078), (237, 16141), (241, 16171), (243, 16183), (246, 16198), (248, 16213), (254, 16264), (258, 16282),

Gene: Clown_23 Start: 14522, Stop: 16378, Start Num: 24

Candidate Starts for Clown_23:

(19, 14495), (Start: 24 @14522 has 111 MA's), (25, 14543), (32, 14624), (43, 14756), (47, 14774), (51, 14840), (85, 15146), (97, 15212), (100, 15227), (104, 15239), (138, 15479), (146, 15551), (162, 15608), (163, 15620), (166, 15659), (179, 15737), (182, 15767), (184, 15782), (201, 15908), (203, 15920), (204, 15923), (222, 16043), (223, 16052), (234, 16133), (243, 16187), (247, 16214), (259, 16295), (260, 16298),

Gene: CoveyB_21 Start: 12369, Stop: 14255, Start Num: 24

Candidate Starts for CoveyB_21:

(Start: 24 @12369 has 111 MA's), (44, 12606), (47, 12618), (49, 12672), (67, 12894), (89, 13056), (97, 13089), (138, 13341), (146, 13413), (162, 13470), (163, 13482), (179, 13599), (184, 13644), (185, 13647), (201, 13770), (203, 13782), (213, 13842), (234, 13995), (236, 14004), (247, 14076), (250, 14106), (263, 14178), (267, 14202),

Gene: Cranjis_28 Start: 13958, Stop: 15814, Start Num: 20

Candidate Starts for Cranjis_28:

(Start: 20 @13958 has 56 MA's), (75, 14534), (81, 14579), (86, 14615), (102, 14684), (109, 14705), (110, 14708), (114, 14738), (131, 14858), (140, 14939), (161, 15053), (163, 15080), (189, 15269), (205, 15395), (223, 15509), (224, 15524), (237, 15572), (241, 15602), (243, 15614), (246, 15629), (248, 15644), (254, 15695), (258, 15713), (262, 15731),

Gene: CrazyRich_26 Start: 13768, Stop: 15624, Start Num: 20

Candidate Starts for CrazyRich_26:

(Start: 20 @13768 has 56 MA's), (75, 14344), (81, 14389), (86, 14425), (102, 14494), (109, 14515), (110, 14518), (114, 14548), (131, 14668), (140, 14749), (161, 14863), (163, 14890), (189, 15079), (205, 15205), (223, 15319), (224, 15334), (237, 15382), (241, 15412), (243, 15424), (246, 15439), (248, 15454), (254, 15505), (258, 15523), (262, 15541),

Gene: Cressida_24 Start: 13311, Stop: 15185, Start Num: 20

Candidate Starts for Cressida_24:

(Start: 20 @13311 has 56 MA's), (60, 13797), (68, 13836), (79, 13935), (86, 13977), (106, 14058), (109, 14067), (119, 14124), (123, 14136), (137, 14268), (139, 14289), (140, 14295), (161, 14409), (172, 14508), (173, 14526), (189, 14625), (191, 14640), (198, 14682), (204, 14736), (205, 14751), (213, 14793), (216, 14808), (218, 14820), (223, 14865), (234, 14928), (241, 14970), (247, 15009), (248, 15012), (262, 15099),

Gene: Crisis_28 Start: 13753, Stop: 15609, Start Num: 20

Candidate Starts for Crisis_28:

(Start: 20 @13753 has 56 MA's), (75, 14329), (81, 14374), (86, 14410), (102, 14479), (109, 14500), (110, 14503), (114, 14533), (131, 14653), (140, 14734), (161, 14848), (163, 14875), (189, 15064), (205, 15190), (210, 15214), (223, 15304), (224, 15319), (237, 15367), (241, 15397), (243, 15409), (246, 15424), (248, 15439), (254, 15490), (258, 15508), (262, 15526),

Gene: Danyall_21 Start: 12369, Stop: 14255, Start Num: 24

Candidate Starts for Danyall_21:

(Start: 24 @12369 has 111 MA's), (44, 12606), (47, 12618), (49, 12672), (67, 12894), (89, 13056), (97, 13089), (138, 13341), (146, 13413), (162, 13470), (163, 13482), (179, 13599), (184, 13644), (185,

13647), (201, 13770), (203, 13782), (213, 13842), (234, 13995), (236, 14004), (247, 14076), (250, 14106), (263, 14178), (267, 14202),

Gene: Delrey21_21 Start: 14990, Stop: 16909, Start Num: 24

Candidate Starts for Delrey21_21:

(Start: 24 @14990 has 111 MA's), (32, 15089), (41, 15206), (42, 15218), (43, 15221), (55, 15395), (69, 15509), (72, 15542), (78, 15608), (79, 15614), (88, 15668), (92, 15692), (101, 15728), (134, 15944), (137, 15962), (138, 15968), (145, 16031), (147, 16043), (148, 16046), (150, 16058), (166, 16148), (171, 16175), (193, 16334), (202, 16412), (208, 16448), (218, 16508), (223, 16553), (234, 16664), (238, 16697), (251, 16781), (254, 16799), (260, 16829),

Gene: Derg_16 Start: 14345, Stop: 16255, Start Num: 24

Candidate Starts for Derg_16:

(Start: 24 @14345 has 111 MA's), (33, 14480), (43, 14576), (65, 14861), (74, 14930), (78, 14978), (83, 15002), (88, 15038), (95, 15071), (100, 15095), (121, 15188), (137, 15329), (138, 15335), (145, 15398), (147, 15410), (148, 15413), (150, 15425), (166, 15512), (184, 15635), (188, 15671), (193, 15704), (201, 15776), (207, 15815), (216, 15866), (235, 16010), (236, 16013), (244, 16064), (251, 16121), (252, 16133), (255, 16142),

Gene: Dewdrop_60 Start: 29654, Stop: 31561, Start Num: 20

Candidate Starts for Dewdrop_60:

(1, 29438), (4, 29510), (7, 29543), (8, 29546), (Start: 20 @29654 has 56 MA's), (51, 29993), (59, 30131), (62, 30161), (77, 30269), (83, 30314), (152, 30755), (180, 30929), (183, 30959), (184, 30971), (189, 30998), (198, 31055), (200, 31082), (204, 31109), (208, 31136), (212, 31160), (218, 31202), (220, 31232), (223, 31247), (247, 31391), (260, 31475), (267, 31517),

Gene: Dxdert_21 Start: 14191, Stop: 16077, Start Num: 24

Candidate Starts for Dxdert_21:

(22, 14182), (Start: 24 @14191 has 111 MA's), (Start: 30 @14257 has 12 MA's), (43, 14425), (47, 14443), (67, 14713), (78, 14809), (120, 15016), (130, 15094), (138, 15163), (145, 15226), (147, 15238), (148, 15241), (164, 15325), (166, 15340), (181, 15439), (188, 15493), (201, 15598), (216, 15688), (226, 15769), (234, 15826), (237, 15838), (246, 15895), (247, 15907), (251, 15943), (263, 16009),

Gene: DoctorFroggo_21 Start: 14990, Stop: 16909, Start Num: 24

Candidate Starts for DoctorFroggo_21:

(Start: 24 @14990 has 111 MA's), (32, 15089), (41, 15206), (42, 15218), (43, 15221), (55, 15395), (69, 15509), (72, 15542), (78, 15608), (79, 15614), (88, 15668), (92, 15692), (101, 15728), (134, 15944), (137, 15962), (138, 15968), (145, 16031), (147, 16043), (148, 16046), (150, 16058), (166, 16148), (171, 16175), (193, 16334), (202, 16412), (208, 16448), (218, 16508), (223, 16553), (234, 16664), (238, 16697), (251, 16781), (254, 16799), (260, 16829),

Gene: DogYard_26 Start: 14304, Stop: 16031, Start Num: 29

Candidate Starts for DogYard_26:

(23, 14241), (Start: 29 @14304 has 9 MA's), (96, 14913), (141, 15201), (143, 15213), (149, 15243), (167, 15339), (168, 15342), (169, 15345), (177, 15405), (200, 15567), (209, 15627), (210, 15633), (213, 15651), (222, 15714), (239, 15825), (254, 15924),

Gene: EMoore_16 Start: 13023, Stop: 14942, Start Num: 24

Candidate Starts for EMoore_16:

(Start: 24 @13023 has 111 MA's), (45, 13263), (70, 13551), (118, 13818), (121, 13827), (126, 13845), (128, 13878), (137, 13992), (138, 13998), (145, 14061), (150, 14088), (166, 14175), (192, 14358), (201, 14433), (203, 14445), (207, 14472), (216, 14523), (223, 14580), (234, 14691), (246, 14760),

(247, 14772), (251, 14808), (252, 14820), (254, 14826),

Gene: EarickHC_27 Start: 13679, Stop: 15535, Start Num: 20

Candidate Starts for EarickHC_27:

(Start: 20 @13679 has 56 MA's), (75, 14255), (81, 14300), (86, 14336), (102, 14405), (109, 14426), (110, 14429), (114, 14459), (131, 14579), (140, 14660), (161, 14774), (163, 14801), (189, 14990), (205, 15116), (210, 15140), (223, 15230), (224, 15245), (237, 15293), (241, 15323), (243, 15335), (246, 15350), (248, 15365), (254, 15416), (258, 15434), (262, 15452),

Gene: EdmundFerry_19 Start: 13775, Stop: 15661, Start Num: 24

Candidate Starts for EdmundFerry_19:

(22, 13766), (Start: 24 @13775 has 111 MA's), (Start: 30 @13841 has 12 MA's), (43, 14009), (47, 14027), (67, 14297), (78, 14393), (120, 14600), (130, 14678), (138, 14747), (145, 14810), (147, 14822), (148, 14825), (164, 14909), (166, 14924), (181, 15023), (188, 15077), (201, 15182), (216, 15272), (226, 15353), (234, 15410), (237, 15422), (246, 15479), (247, 15491), (251, 15527), (263, 15593),

Gene: Egi03_19 Start: 11979, Stop: 13871, Start Num: 24

Candidate Starts for Egi03_19:

(Start: 24 @11979 has 111 MA's), (44, 12216), (47, 12228), (49, 12282), (67, 12507), (89, 12669), (97, 12702), (104, 12729), (162, 13095), (163, 13107), (179, 13224), (184, 13269), (185, 13272), (194, 13332), (196, 13350), (201, 13395), (203, 13407), (204, 13410), (222, 13530), (228, 13569), (236, 13629), (247, 13701), (250, 13731), (254, 13755), (259, 13782), (260, 13785), (264, 13812),

Gene: Evamon_19 Start: 11844, Stop: 13742, Start Num: 24

Candidate Starts for Evamon_19:

(Start: 24 @11844 has 111 MA's), (44, 12081), (47, 12093), (49, 12147), (67, 12378), (89, 12540), (97, 12573), (138, 12837), (162, 12966), (163, 12978), (179, 13095), (184, 13140), (185, 13143), (194, 13203), (196, 13221), (199, 13236), (201, 13266), (203, 13278), (204, 13281), (222, 13401), (228, 13440), (236, 13500), (247, 13572), (250, 13602), (254, 13626), (259, 13653), (260, 13656), (264, 13683),

Gene: Fireball_20 Start: 11982, Stop: 13874, Start Num: 24

Candidate Starts for Fireball_20:

(Start: 24 @11982 has 111 MA's), (44, 12219), (47, 12231), (49, 12285), (67, 12510), (89, 12672), (97, 12705), (104, 12732), (162, 13098), (163, 13110), (179, 13227), (184, 13272), (185, 13275), (194, 13335), (196, 13353), (201, 13398), (203, 13410), (204, 13413), (222, 13533), (228, 13572), (236, 13632), (247, 13704), (250, 13734), (254, 13758), (259, 13785), (260, 13788), (264, 13815),

Gene: Fireman_27 Start: 13483, Stop: 15504, Start Num: 20

Candidate Starts for Fireman_27:

(Start: 20 @13483 has 56 MA's), (75, 14068), (86, 14149), (91, 14173), (102, 14218), (109, 14239), (131, 14392), (157, 14650), (159, 14722), (163, 14782), (164, 14806), (184, 14944), (187, 14968), (189, 14971), (204, 15082), (223, 15211), (224, 15226), (227, 15235), (234, 15262), (237, 15274), (241, 15304), (246, 15331), (262, 15433),

Gene: Fitzgerald_18 Start: 14566, Stop: 16473, Start Num: 24

Candidate Starts for Fitzgerald_18:

(Start: 24 @14566 has 111 MA's), (43, 14797), (47, 14815), (65, 15082), (83, 15220), (95, 15289), (103, 15322), (137, 15547), (138, 15553), (145, 15616), (147, 15628), (148, 15631), (150, 15643), (166, 15730), (184, 15853), (188, 15889), (207, 16033), (216, 16084), (235, 16228), (236, 16231), (237, 16234), (244, 16282), (251, 16339),

Gene: Flatwoods_21 Start: 14757, Stop: 16682, Start Num: 24

Candidate Starts for Flatwoods_21:

(Start: 24 @14757 has 111 MA's), (33, 14892), (43, 14988), (65, 15288), (74, 15357), (78, 15405), (83, 15429), (88, 15465), (95, 15498), (100, 15522), (121, 15615), (137, 15756), (138, 15762), (145, 15825), (147, 15837), (148, 15840), (150, 15852), (166, 15939), (184, 16062), (188, 16098), (193, 16131), (201, 16203), (207, 16242), (216, 16293), (234, 16431), (235, 16437), (236, 16440), (244, 16491), (251, 16548), (252, 16560), (255, 16569),

Gene: Forrestell_23 Start: 12942, Stop: 14669, Start Num: 29

Candidate Starts for Forrestell_23:

(23, 12879), (Start: 29 @12942 has 9 MA's), (96, 13551), (134, 13779), (141, 13839), (143, 13851), (149, 13881), (167, 13977), (168, 13980), (169, 13983), (177, 14043), (200, 14205), (207, 14256), (209, 14265), (213, 14289), (222, 14352), (234, 14427), (235, 14433), (237, 14439), (238, 14460), (254, 14562),

Gene: Fosterous_18 Start: 15029, Stop: 16936, Start Num: 24

Candidate Starts for Fosterous_18:

(Start: 24 @15029 has 111 MA's), (43, 15260), (47, 15278), (65, 15545), (83, 15683), (95, 15752), (103, 15785), (137, 16010), (138, 16016), (145, 16079), (147, 16091), (148, 16094), (150, 16106), (166, 16193), (174, 16247), (184, 16316), (188, 16352), (207, 16496), (216, 16547), (235, 16691), (236, 16694), (237, 16697), (244, 16745), (251, 16802),

Gene: FuegoCuervo_23 Start: 14318, Stop: 16225, Start Num: 24

Candidate Starts for FuegoCuervo_23:

(Start: 24 @14318 has 111 MA's), (43, 14549), (47, 14567), (65, 14834), (83, 14972), (95, 15041), (103, 15074), (137, 15299), (138, 15305), (145, 15368), (147, 15380), (148, 15383), (150, 15395), (166, 15482), (184, 15605), (188, 15641), (207, 15785), (216, 15836), (235, 15980), (236, 15983), (237, 15986), (244, 16034), (251, 16091),

Gene: Fugax_21 Start: 12512, Stop: 14410, Start Num: 24

Candidate Starts for Fugax_21:

(Start: 24 @12512 has 111 MA's), (44, 12749), (47, 12761), (49, 12815), (89, 13208), (97, 13241), (103, 13265), (138, 13505), (162, 13634), (163, 13646), (179, 13763), (184, 13808), (185, 13811), (194, 13871), (196, 13889), (201, 13934), (203, 13946), (204, 13949), (206, 13970), (222, 14069), (228, 14108), (236, 14168), (247, 14240), (250, 14270), (254, 14294), (259, 14321), (260, 14324), (264, 14351),

Gene: FuzzBuster_31 Start: 13864, Stop: 15825, Start Num: 9

Candidate Starts for FuzzBuster_31:

(Start: 9 @13864 has 1 MA's), (13, 13891), (21, 13975), (26, 14026), (51, 14296), (77, 14533), (115, 14728), (130, 14842), (165, 15121), (170, 15148), (173, 15175), (178, 15199), (181, 15223), (184, 15247), (185, 15250), (186, 15268), (194, 15307), (204, 15385), (244, 15637), (247, 15658), (264, 15769), (266, 15778),

Gene: GTE6_20 Start: 14261, Stop: 16150, Start Num: 24

Candidate Starts for GTE6_20:

(22, 14252), (Start: 24 @14261 has 111 MA's), (Start: 30 @14327 has 12 MA's), (43, 14495), (47, 14513), (67, 14786), (78, 14882), (120, 15089), (130, 15167), (138, 15236), (145, 15299), (147, 15311), (148, 15314), (164, 15398), (166, 15413), (181, 15512), (188, 15566), (201, 15671), (216, 15761), (226, 15842), (234, 15899), (238, 15932), (247, 15980), (251, 16016), (263, 16082),

Gene: Gaea_20 Start: 14451, Stop: 16370, Start Num: 24

Candidate Starts for Gaea_20:

(Start: 24 @14451 has 111 MA's), (33, 14586), (43, 14682), (65, 14976), (74, 15045), (78, 15093), (83, 15117), (88, 15153), (95, 15186), (100, 15210), (121, 15303), (137, 15444), (138, 15450), (145, 15513), (147, 15525), (148, 15528), (150, 15540), (166, 15627), (184, 15750), (188, 15786), (193, 15819), (201, 15891), (207, 15930), (216, 15981), (234, 16119), (235, 16125), (236, 16128), (244, 16179), (251, 16236), (252, 16248), (255, 16257),

Gene: Galadriel_22 Start: 14888, Stop: 16786, Start Num: 24

Candidate Starts for Galadriel_22:

(Start: 24 @14888 has 111 MA's), (43, 15119), (47, 15137), (65, 15395), (83, 15533), (95, 15602), (103, 15635), (137, 15860), (138, 15866), (145, 15929), (147, 15941), (148, 15944), (150, 15956), (166, 16043), (184, 16166), (188, 16202), (207, 16346), (216, 16397), (235, 16541), (236, 16544), (237, 16547), (244, 16595), (251, 16652),

Gene: Ganandorf_26 Start: 13815, Stop: 15671, Start Num: 20

Candidate Starts for Ganandorf_26:

(Start: 20 @13815 has 56 MA's), (75, 14391), (81, 14436), (86, 14472), (102, 14541), (109, 14562), (110, 14565), (114, 14595), (131, 14715), (140, 14796), (161, 14910), (163, 14937), (189, 15126), (205, 15252), (223, 15366), (224, 15381), (237, 15429), (241, 15459), (243, 15471), (246, 15486), (248, 15501), (254, 15552), (258, 15570), (262, 15588),

Gene: Geodirt_19 Start: 15093, Stop: 17003, Start Num: 24

Candidate Starts for Geodirt_19:

(Start: 24 @15093 has 111 MA's), (43, 15324), (47, 15342), (65, 15612), (83, 15750), (95, 15819), (103, 15852), (137, 16077), (138, 16083), (145, 16146), (147, 16158), (148, 16161), (150, 16173), (166, 16260), (174, 16314), (184, 16383), (188, 16419), (207, 16563), (216, 16614), (235, 16758), (236, 16761), (237, 16764), (244, 16812), (251, 16869),

Gene: Gezellig_19 Start: 11982, Stop: 13874, Start Num: 24

Candidate Starts for Gezellig_19:

(Start: 24 @11982 has 111 MA's), (44, 12219), (47, 12231), (49, 12285), (67, 12510), (89, 12672), (97, 12705), (104, 12732), (162, 13098), (163, 13110), (179, 13227), (184, 13272), (185, 13275), (194, 13335), (196, 13353), (201, 13398), (203, 13410), (204, 13413), (222, 13533), (228, 13572), (236, 13632), (247, 13704), (250, 13734), (254, 13758), (259, 13785), (260, 13788), (264, 13815),

Gene: Gina_28 Start: 13149, Stop: 15167, Start Num: 20

Candidate Starts for Gina_28:

(Start: 20 @13149 has 56 MA's), (59, 13617), (75, 13731), (79, 13770), (86, 13812), (91, 13836), (102, 13881), (109, 13902), (110, 13905), (112, 13920), (122, 13974), (131, 14055), (138, 14115), (153, 14259), (155, 14277), (163, 14445), (164, 14469), (184, 14607), (189, 14634), (204, 14745), (223, 14874), (224, 14889), (234, 14925), (237, 14937), (241, 14967), (246, 14994), (262, 15096),

Gene: Glorp_28 Start: 13816, Stop: 15672, Start Num: 20

Candidate Starts for Glorp_28:

(Start: 20 @13816 has 56 MA's), (75, 14392), (81, 14437), (86, 14473), (102, 14542), (109, 14563), (110, 14566), (114, 14596), (131, 14716), (140, 14797), (161, 14911), (163, 14938), (189, 15127), (223, 15367), (224, 15382), (237, 15430), (241, 15460), (243, 15472), (246, 15487), (248, 15502), (254, 15553), (258, 15571), (262, 15589),

Gene: Gustavo_20 Start: 14562, Stop: 16469, Start Num: 24

Candidate Starts for Gustavo_20:

(Start: 24 @14562 has 111 MA's), (33, 14697), (43, 14793), (65, 15075), (74, 15144), (78, 15192), (83, 15216), (88, 15252), (95, 15285), (100, 15309), (121, 15402), (137, 15543), (138, 15549), (145, 15612), (147, 15624), (148, 15627), (150, 15639), (166, 15726), (184, 15849), (188, 15885), (201,

15990), (207, 16029), (216, 16080), (234, 16218), (235, 16224), (236, 16227), (244, 16278), (251, 16335), (252, 16347), (255, 16356),

Gene: Halo3_20 Start: 12297, Stop: 14195, Start Num: 24

Candidate Starts for Halo3_20:

(Start: 24 @12297 has 111 MA's), (44, 12534), (47, 12546), (49, 12600), (89, 12993), (97, 13026), (138, 13290), (162, 13419), (163, 13431), (165, 13467), (179, 13548), (184, 13593), (185, 13596), (194, 13656), (201, 13719), (203, 13731), (204, 13734), (228, 13893), (236, 13953), (247, 14025), (250, 14055), (254, 14079), (259, 14106), (260, 14109),

Gene: Hans_23 Start: 15322, Stop: 17238, Start Num: 24

Candidate Starts for Hans_23:

(Start: 24 @15322 has 111 MA's), (39, 15523), (52, 15646), (65, 15814), (74, 15880), (83, 15937), (118, 16114), (121, 16123), (128, 16174), (130, 16225), (137, 16288), (138, 16294), (145, 16357), (150, 16384), (166, 16471), (171, 16498), (192, 16654), (201, 16729), (204, 16744), (207, 16768), (213, 16801), (216, 16819), (223, 16876), (234, 16987), (246, 17056), (247, 17068), (251, 17104), (263, 17170),

Gene: Hendrix_57 Start: 29698, Stop: 31632, Start Num: 20

Candidate Starts for Hendrix_57:

(Start: 20 @29698 has 56 MA's), (41, 29935), (62, 30232), (77, 30343), (110, 30505), (129, 30619), (183, 31033), (184, 31045), (189, 31072), (198, 31129), (200, 31156), (204, 31183), (205, 31198), (216, 31264), (267, 31591),

Gene: Hermeonysus_26 Start: 13684, Stop: 15543, Start Num: 20

Candidate Starts for Hermeonysus_26:

(Start: 20 @13684 has 56 MA's), (75, 14263), (81, 14308), (86, 14344), (102, 14413), (109, 14434), (110, 14437), (114, 14467), (131, 14587), (140, 14668), (161, 14782), (163, 14809), (189, 14998), (205, 15124), (223, 15238), (224, 15253), (237, 15301), (241, 15331), (243, 15343), (246, 15358), (248, 15373), (254, 15424), (258, 15442), (262, 15460),

Gene: Hive_26 Start: 14318, Stop: 16045, Start Num: 29

Candidate Starts for Hive_26:

(23, 14255), (Start: 29 @14318 has 9 MA's), (96, 14927), (141, 15215), (143, 15227), (149, 15257), (167, 15353), (168, 15356), (169, 15359), (177, 15419), (200, 15581), (209, 15641), (210, 15647), (213, 15665), (222, 15728), (239, 15839), (254, 15938),

Gene: Honeyfin_28 Start: 14000, Stop: 15859, Start Num: 20

Candidate Starts for Honeyfin_28:

(Start: 20 @14000 has 56 MA's), (75, 14579), (81, 14624), (86, 14660), (102, 14729), (109, 14750), (110, 14753), (114, 14783), (131, 14903), (140, 14984), (161, 15098), (163, 15125), (189, 15314), (205, 15440), (223, 15554), (224, 15569), (237, 15617), (241, 15647), (243, 15659), (246, 15674), (248, 15689), (254, 15740), (258, 15758), (262, 15776),

Gene: Inspectinfecti_22 Start: 15744, Stop: 17663, Start Num: 24

Candidate Starts for Inspectinfecti_22:

(Start: 24 @15744 has 111 MA's), (39, 15945), (52, 16068), (65, 16239), (72, 16284), (74, 16305), (83, 16362), (118, 16539), (121, 16548), (128, 16599), (130, 16650), (137, 16713), (138, 16719), (145, 16782), (150, 16809), (166, 16896), (171, 16923), (178, 16971), (192, 17079), (201, 17154), (204, 17169), (207, 17193), (213, 17226), (216, 17244), (223, 17301), (234, 17412), (246, 17481), (247, 17493), (251, 17529), (263, 17595),

Gene: JKSyngboy_19 Start: 15221, Stop: 17128, Start Num: 24

Candidate Starts for JKSyngboy_19:

(Start: 24 @15221 has 111 MA's), (33, 15356), (36, 15389), (43, 15452), (65, 15734), (74, 15803), (78, 15851), (83, 15875), (95, 15944), (100, 15968), (121, 16061), (137, 16202), (138, 16208), (145, 16271), (147, 16283), (148, 16286), (150, 16298), (166, 16385), (184, 16508), (188, 16544), (193, 16577), (201, 16649), (207, 16688), (216, 16739), (235, 16883), (236, 16886), (244, 16937), (251, 16994), (252, 17006), (255, 17015),

Gene: Jabberwocky_18 Start: 15000, Stop: 16907, Start Num: 24

Candidate Starts for Jabberwocky_18:

(Start: 24 @15000 has 111 MA's), (43, 15231), (47, 15249), (65, 15516), (83, 15654), (95, 15723), (103, 15756), (137, 15981), (138, 15987), (145, 16050), (147, 16062), (148, 16065), (150, 16077), (166, 16164), (174, 16218), (184, 16287), (188, 16323), (207, 16467), (216, 16518), (235, 16662), (236, 16665), (237, 16668), (244, 16716), (251, 16773),

Gene: Jambalaya_19 Start: 11635, Stop: 13521, Start Num: 24

Candidate Starts for Jambalaya_19:

(Start: 24 @11635 has 111 MA's), (44, 11872), (47, 11884), (49, 11938), (89, 12319), (97, 12352), (104, 12379), (162, 12745), (163, 12757), (179, 12874), (184, 12919), (185, 12922), (194, 12982), (196, 13000), (201, 13045), (203, 13057), (204, 13060), (222, 13180), (228, 13219), (236, 13279), (247, 13351), (250, 13381), (254, 13405), (259, 13432), (260, 13435), (264, 13462),

Gene: Jayden_28 Start: 13519, Stop: 15375, Start Num: 20

Candidate Starts for Jayden_28:

(Start: 20 @13519 has 56 MA's), (38, 13699), (75, 14092), (79, 14131), (81, 14137), (86, 14173), (102, 14242), (109, 14263), (110, 14266), (131, 14416), (163, 14638), (164, 14662), (184, 14800), (189, 14827), (204, 14938), (205, 14953), (223, 15067), (224, 15082), (227, 15091), (234, 15118), (237, 15130), (240, 15157), (241, 15160), (248, 15202),

Gene: Jefe_27 Start: 13737, Stop: 15596, Start Num: 20

Candidate Starts for Jefe_27:

(Start: 20 @13737 has 56 MA's), (75, 14316), (81, 14361), (86, 14397), (102, 14466), (109, 14487), (110, 14490), (114, 14520), (131, 14640), (140, 14721), (161, 14835), (163, 14862), (189, 15051), (205, 15177), (223, 15291), (224, 15306), (237, 15354), (241, 15384), (243, 15396), (246, 15411), (248, 15426), (254, 15477), (258, 15495), (262, 15513),

Gene: Jollipop_27 Start: 14085, Stop: 15941, Start Num: 20

Candidate Starts for Jollipop_27:

(Start: 20 @14085 has 56 MA's), (75, 14661), (81, 14706), (86, 14742), (102, 14811), (109, 14832), (110, 14835), (114, 14865), (131, 14985), (140, 15066), (161, 15180), (163, 15207), (189, 15396), (205, 15522), (223, 15636), (224, 15651), (237, 15699), (241, 15729), (243, 15741), (246, 15756), (248, 15771), (254, 15822), (258, 15840), (262, 15858),

Gene: KaiHaiDragon_27 Start: 13679, Stop: 15535, Start Num: 20

Candidate Starts for KaiHaiDragon_27:

(Start: 20 @13679 has 56 MA's), (75, 14255), (81, 14300), (86, 14336), (102, 14405), (109, 14426), (110, 14429), (114, 14459), (131, 14579), (140, 14660), (161, 14774), (163, 14801), (189, 14990), (205, 15116), (210, 15140), (223, 15230), (224, 15245), (237, 15293), (241, 15323), (243, 15335), (246, 15350), (248, 15365), (254, 15416), (258, 15434), (262, 15452),

Gene: Kamashten_21 Start: 15684, Stop: 17591, Start Num: 24

Candidate Starts for Kamashten_21:

(Start: 24 @15684 has 111 MA's), (43, 15915), (47, 15933), (65, 16200), (83, 16338), (95, 16407), (103, 16440), (137, 16665), (138, 16671), (145, 16734), (147, 16746), (148, 16749), (150, 16761),

(166, 16848), (174, 16902), (184, 16971), (188, 17007), (207, 17151), (216, 17202), (235, 17346), (236, 17349), (237, 17352), (244, 17400), (251, 17457),

Gene: Keitabear_22 Start: 17233, Stop: 19128, Start Num: 24

Candidate Starts for Keitabear_22:

(Start: 24 @17233 has 111 MA's), (43, 17464), (47, 17482), (65, 17737), (83, 17875), (95, 17944), (103, 17977), (137, 18202), (138, 18208), (147, 18283), (148, 18286), (150, 18298), (162, 18334), (166, 18385), (184, 18508), (188, 18544), (207, 18688), (216, 18739), (235, 18883), (236, 18886), (237, 18889), (244, 18937), (251, 18994), (271, 19111),

Gene: Kewpiedoll_21 Start: 15069, Stop: 16979, Start Num: 24

Candidate Starts for Kewpiedoll_21:

(Start: 24 @15069 has 111 MA's), (43, 15300), (47, 15318), (65, 15588), (83, 15726), (95, 15795), (103, 15828), (137, 16053), (138, 16059), (145, 16122), (147, 16134), (148, 16137), (150, 16149), (166, 16236), (184, 16359), (188, 16395), (207, 16539), (216, 16590), (235, 16734), (236, 16737), (237, 16740), (244, 16788), (251, 16845),

Gene: KimmyK_21 Start: 12512, Stop: 14410, Start Num: 24

Candidate Starts for KimmyK_21:

(Start: 24 @12512 has 111 MA's), (44, 12749), (47, 12761), (49, 12815), (89, 13208), (97, 13241), (103, 13265), (138, 13505), (162, 13634), (163, 13646), (179, 13763), (184, 13808), (185, 13811), (194, 13871), (196, 13889), (201, 13934), (203, 13946), (204, 13949), (206, 13970), (222, 14069), (228, 14108), (236, 14168), (247, 14240), (250, 14270), (254, 14294), (259, 14321), (260, 14324), (264, 14351),

Gene: Kowalski_26 Start: 13795, Stop: 15651, Start Num: 20

Candidate Starts for Kowalski_26:

(Start: 20 @13795 has 56 MA's), (75, 14371), (81, 14416), (86, 14452), (102, 14521), (109, 14542), (110, 14545), (114, 14575), (131, 14695), (140, 14776), (161, 14890), (163, 14917), (189, 15106), (223, 15346), (224, 15361), (237, 15409), (241, 15439), (243, 15451), (246, 15466), (248, 15481), (254, 15532), (258, 15550), (262, 15568),

Gene: Kozie_23 Start: 13272, Stop: 15131, Start Num: 20

Candidate Starts for Kozie_23:

(Start: 20 @13272 has 56 MA's), (61, 13767), (86, 13923), (109, 14013), (138, 14220), (161, 14355), (167, 14427), (173, 14472), (184, 14544), (186, 14565), (189, 14571), (198, 14628), (204, 14682), (210, 14721), (211, 14727), (218, 14766), (221, 14799), (262, 15045),

Gene: Kroos_21 Start: 15314, Stop: 17227, Start Num: 24

Candidate Starts for Kroos_21:

(Start: 24 @15314 has 111 MA's), (33, 15449), (43, 15545), (65, 15833), (74, 15902), (78, 15950), (83, 15974), (88, 16010), (95, 16043), (100, 16067), (121, 16160), (137, 16301), (138, 16307), (145, 16370), (147, 16382), (148, 16385), (150, 16397), (166, 16484), (184, 16607), (188, 16643), (193, 16676), (201, 16748), (207, 16787), (216, 16838), (234, 16976), (235, 16982), (236, 16985), (244, 17036), (251, 17093), (252, 17105), (255, 17114),

Gene: Kubulix_27 Start: 14427, Stop: 16154, Start Num: 29

Candidate Starts for Kubulix_27:

(23, 14364), (Start: 29 @14427 has 9 MA's), (96, 15036), (141, 15324), (143, 15336), (149, 15366), (167, 15462), (168, 15465), (169, 15468), (177, 15528), (200, 15690), (209, 15750), (210, 15756), (213, 15774), (222, 15837), (239, 15948), (254, 16047),

Gene: Kwekel_20 Start: 13711, Stop: 15594, Start Num: 24

Candidate Starts for Kwekel_20:

(22, 13702), (Start: 24 @13711 has 111 MA's), (43, 13945), (47, 13963), (67, 14233), (78, 14329), (120, 14536), (130, 14614), (137, 14677), (138, 14683), (145, 14746), (147, 14758), (148, 14761), (164, 14845), (166, 14860), (188, 15013), (201, 15118), (216, 15208), (226, 15289), (234, 15346), (246, 15415), (247, 15427), (251, 15463), (263, 15529),

Gene: Kwobi_22 Start: 15290, Stop: 17209, Start Num: 24

Candidate Starts for Kwobi_22:

(Start: 24 @15290 has 111 MA's), (33, 15425), (43, 15521), (65, 15815), (74, 15884), (78, 15932), (83, 15956), (88, 15992), (95, 16025), (100, 16049), (121, 16142), (137, 16283), (138, 16289), (145, 16352), (147, 16364), (148, 16367), (150, 16379), (166, 16466), (184, 16589), (188, 16625), (193, 16658), (201, 16730), (207, 16769), (216, 16820), (234, 16958), (235, 16964), (236, 16967), (244, 17018), (251, 17075), (252, 17087), (255, 17096),

Gene: Leaf_60 Start: 29654, Stop: 31561, Start Num: 20

Candidate Starts for Leaf_60:

(1, 29438), (4, 29510), (7, 29543), (8, 29546), (Start: 20 @29654 has 56 MA's), (51, 29993), (59, 30131), (62, 30161), (77, 30269), (83, 30314), (152, 30755), (180, 30929), (183, 30959), (184, 30971), (189, 30998), (198, 31055), (200, 31082), (204, 31109), (208, 31136), (212, 31160), (218, 31202), (220, 31232), (223, 31247), (247, 31391), (260, 31475), (267, 31517),

Gene: Lennon_22 Start: 16336, Stop: 18231, Start Num: 24

Candidate Starts for Lennon_22:

(Start: 24 @16336 has 111 MA's), (43, 16567), (47, 16585), (65, 16840), (83, 16978), (95, 17047), (103, 17080), (137, 17305), (138, 17311), (145, 17374), (147, 17386), (148, 17389), (150, 17401), (166, 17488), (184, 17611), (188, 17647), (207, 17791), (216, 17842), (235, 17986), (236, 17989), (237, 17992), (244, 18040), (251, 18097), (271, 18214),

Gene: Leonard_21 Start: 15339, Stop: 17258, Start Num: 24

Candidate Starts for Leonard_21:

(Start: 24 @15339 has 111 MA's), (39, 15540), (52, 15663), (65, 15834), (72, 15879), (74, 15900), (83, 15957), (111, 16083), (118, 16134), (121, 16143), (128, 16194), (130, 16245), (137, 16308), (138, 16314), (145, 16377), (150, 16404), (166, 16491), (192, 16674), (201, 16749), (204, 16764), (207, 16788), (213, 16821), (216, 16839), (223, 16896), (234, 17007), (246, 17076), (247, 17088), (251, 17124), (263, 17190),

Gene: LilHam_18 Start: 13869, Stop: 15788, Start Num: 24

Candidate Starts for LilHam_18:

(Start: 24 @13869 has 111 MA's), (33, 14004), (43, 14100), (65, 14394), (74, 14463), (78, 14511), (83, 14535), (88, 14571), (95, 14604), (100, 14628), (121, 14721), (137, 14862), (138, 14868), (145, 14931), (147, 14943), (148, 14946), (150, 14958), (166, 15045), (184, 15168), (188, 15204), (193, 15237), (201, 15309), (207, 15348), (216, 15399), (235, 15543), (236, 15546), (244, 15597), (251, 15654), (252, 15666), (255, 15675),

Gene: Lilbeanie_18 Start: 10655, Stop: 12583, Start Num: 24

Candidate Starts for Lilbeanie_18:

(17, 10613), (Start: 24 @10655 has 111 MA's), (32, 10754), (41, 10871), (43, 10886), (65, 11204), (104, 11441), (114, 11489), (138, 11672), (165, 11846), (181, 11948), (184, 11972), (203, 12107), (215, 12179), (216, 12185), (230, 12287), (231, 12299), (242, 12377), (251, 12443), (254, 12461), (259, 12488),

Gene: LittleFortune_28 Start: 14042, Stop: 15901, Start Num: 20

Candidate Starts for LittleFortune_28:

(Start: 20 @14042 has 56 MA's), (75, 14621), (81, 14666), (86, 14702), (102, 14771), (109, 14792), (110, 14795), (114, 14825), (131, 14945), (140, 15026), (161, 15140), (163, 15167), (189, 15356), (205, 15482), (223, 15596), (224, 15611), (237, 15659), (241, 15689), (246, 15716), (248, 15731), (254, 15782), (258, 15800), (262, 15818),

Gene: Love_22 Start: 15199, Stop: 17106, Start Num: 24

Candidate Starts for Love_22:

(Start: 24 @15199 has 111 MA's), (43, 15430), (47, 15448), (65, 15715), (83, 15853), (95, 15922), (103, 15955), (137, 16180), (138, 16186), (145, 16249), (147, 16261), (148, 16264), (150, 16276), (166, 16363), (174, 16417), (184, 16486), (188, 16522), (207, 16666), (216, 16717), (235, 16861), (236, 16864), (237, 16867), (244, 16915), (251, 16972),

Gene: Lucretia_27 Start: 13732, Stop: 15588, Start Num: 20

Candidate Starts for Lucretia_27:

(Start: 20 @13732 has 56 MA's), (75, 14308), (81, 14353), (86, 14389), (102, 14458), (109, 14479), (110, 14482), (114, 14512), (131, 14632), (140, 14713), (161, 14827), (163, 14854), (189, 15043), (205, 15169), (223, 15283), (224, 15298), (237, 15346), (241, 15376), (243, 15388), (246, 15403), (248, 15418), (254, 15469), (258, 15487), (262, 15505),

Gene: Maih_13 Start: 13750, Stop: 15444, Start Num: 30

Candidate Starts for Maih_13:

(Start: 30 @13750 has 12 MA's), (31, 13759), (37, 13861), (51, 13993), (53, 14017), (58, 14113), (73, 14194), (80, 14239), (82, 14248), (87, 14281), (93, 14308), (94, 14311), (108, 14359), (113, 14392), (114, 14395), (122, 14434), (124, 14440), (131, 14518), (133, 14551), (147, 14641), (166, 14731), (176, 14797), (179, 14809), (180, 14812), (194, 14929), (199, 14962), (203, 15004), (220, 15121), (236, 15217), (245, 15274), (253, 15337), (255, 15343), (262, 15376), (265, 15400), (270, 15418), (272, 15433),

Gene: Margaery_22 Start: 13234, Stop: 15096, Start Num: 20

Candidate Starts for Margaery_22:

(10, 13135), (Start: 20 @13234 has 56 MA's), (54, 13588), (75, 13807), (79, 13846), (86, 13888), (109, 13978), (123, 14047), (139, 14200), (161, 14320), (173, 14437), (189, 14536), (191, 14551), (198, 14593), (204, 14647), (211, 14692), (213, 14704), (216, 14719), (218, 14731), (234, 14839), (238, 14872), (248, 14923), (257, 14989),

Gene: Matzah_23 Start: 13253, Stop: 15118, Start Num: 20

Candidate Starts for Matzah_23:

(Start: 20 @13253 has 56 MA's), (54, 13607), (60, 13733), (79, 13871), (86, 13913), (106, 13994), (109, 14003), (119, 14060), (123, 14072), (137, 14204), (139, 14225), (140, 14231), (161, 14345), (172, 14444), (173, 14462), (189, 14561), (191, 14576), (198, 14618), (204, 14672), (205, 14687), (213, 14729), (216, 14744), (218, 14756), (223, 14801), (234, 14864), (238, 14897),

Gene: McCrothy_21 Start: 15065, Stop: 16975, Start Num: 24

Candidate Starts for McCrothy_21:

(Start: 24 @15065 has 111 MA's), (43, 15296), (47, 15314), (65, 15584), (83, 15722), (95, 15791), (103, 15824), (137, 16049), (138, 16055), (145, 16118), (147, 16130), (148, 16133), (150, 16145), (166, 16232), (184, 16355), (188, 16391), (207, 16535), (216, 16586), (235, 16730), (236, 16733), (237, 16736), (244, 16784), (251, 16841),

Gene: McKinley_21 Start: 15222, Stop: 17132, Start Num: 24

Candidate Starts for McKinley_21:

(Start: 24 @15222 has 111 MA's), (43, 15453), (47, 15471), (65, 15741), (83, 15879), (95, 15948), (103, 15981), (137, 16206), (138, 16212), (145, 16275), (147, 16287), (148, 16290), (150, 16302),

(166, 16389), (184, 16512), (188, 16548), (207, 16692), (216, 16743), (235, 16887), (236, 16890), (237, 16893), (244, 16941), (251, 16998),

Gene: Megan_21 Start: 14855, Stop: 16870, Start Num: 20

Candidate Starts for Megan_21:

(2, 14651), (3, 14660), (5, 14723), (6, 14741), (18, 14843), (Start: 20 @14855 has 56 MA's), (39, 15056), (75, 15434), (81, 15479), (86, 15515), (102, 15584), (109, 15605), (110, 15608), (112, 15623), (131, 15758), (132, 15773), (156, 16007), (158, 16076), (163, 16148), (184, 16310), (185, 16313), (187, 16334), (196, 16388), (204, 16448), (211, 16493), (213, 16505), (221, 16565), (223, 16577), (237, 16640), (241, 16670), (246, 16697), (259, 16790), (260, 16793), (262, 16799), (268, 16838),

Gene: MelBins_22 Start: 15543, Stop: 17459, Start Num: 24

Candidate Starts for MelBins_22:

(Start: 24 @15543 has 111 MA's), (39, 15744), (52, 15867), (65, 16035), (74, 16101), (83, 16158), (118, 16335), (121, 16344), (128, 16395), (130, 16446), (137, 16509), (138, 16515), (145, 16578), (150, 16605), (166, 16692), (192, 16875), (201, 16950), (204, 16965), (207, 16989), (213, 17022), (216, 17040), (223, 17097), (234, 17208), (246, 17277), (247, 17289), (251, 17325), (263, 17391),

Gene: MellowYellow_23 Start: 12969, Stop: 14696, Start Num: 29

Candidate Starts for MellowYellow_23:

(23, 12906), (Start: 29 @12969 has 9 MA's), (96, 13578), (134, 13806), (141, 13866), (143, 13878), (149, 13908), (167, 14004), (168, 14007), (169, 14010), (177, 14070), (200, 14232), (207, 14283), (209, 14292), (213, 14316), (222, 14379), (234, 14454), (235, 14460), (237, 14466), (238, 14487), (254, 14589),

Gene: MementoMori_23 Start: 12969, Stop: 14840, Start Num: 20

Candidate Starts for MementoMori_23:

(Start: 20 @12969 has 56 MA's), (60, 13452), (76, 13560), (79, 13590), (86, 13632), (106, 13713), (109, 13722), (119, 13779), (123, 13791), (137, 13923), (139, 13944), (140, 13950), (161, 14064), (172, 14163), (173, 14181), (189, 14280), (191, 14295), (198, 14337), (204, 14391), (205, 14406), (213, 14448), (216, 14463), (218, 14475), (223, 14520), (234, 14583), (238, 14616), (262, 14754),

Gene: Merry_ Start: 13998, Stop: 15890, Start Num: 15

Candidate Starts for Merry_:

(11, 13962), (12, 13968), (14, 13995), (Start: 15 @13998 has 2 MA's), (Start: 20 @14052 has 56 MA's), (51, 14373), (75, 14610), (81, 14655), (86, 14691), (102, 14760), (109, 14781), (110, 14784), (117, 14835), (125, 14868), (131, 14934), (140, 15015), (163, 15156), (185, 15321), (189, 15345), (205, 15471), (223, 15585), (224, 15600), (234, 15636), (237, 15648), (241, 15678), (243, 15690), (246, 15705), (265, 15831),

Gene: Metamorphoo_27 Start: 13469, Stop: 15490, Start Num: 20

Candidate Starts for Metamorphoo_27:

(Start: 20 @13469 has 56 MA's), (75, 14054), (86, 14135), (91, 14159), (102, 14204), (109, 14225), (110, 14228), (131, 14378), (154, 14588), (157, 14636), (159, 14708), (163, 14768), (164, 14792), (184, 14930), (187, 14954), (189, 14957), (204, 15068), (223, 15197), (224, 15212), (227, 15221), (234, 15248), (237, 15260), (241, 15290), (246, 15317), (258, 15401), (262, 15419),

Gene: Mischief19_14 Start: 15652, Stop: 17313, Start Num: 30

Candidate Starts for Mischief19_14:

(Start: 30 @15652 has 12 MA's), (34, 15730), (51, 15895), (56, 15976), (68, 16060), (83, 16147), (90, 16189), (94, 16204), (105, 16243), (107, 16249), (108, 16252), (113, 16285), (131, 16411), (133, 16444), (137, 16465), (144, 16525), (164, 16609), (175, 16684), (179, 16702), (199, 16837), (203, 16879), (220, 16996), (232, 17065), (237, 17095),

Gene: MisoSoup_18 Start: 9688, Stop: 11541, Start Num: 21

Candidate Starts for MisoSoup_18:

(21, 9688), (27, 9739), (63, 10183), (77, 10249), (84, 10300), (99, 10375), (139, 10639), (173, 10891), (181, 10939), (184, 10963), (186, 10984), (198, 11047), (216, 11173), (234, 11293), (241, 11335), (247, 11374),

Gene: MoontowerMania_19 Start: 14205, Stop: 16112, Start Num: 24

Candidate Starts for MoontowerMania_19:

(Start: 24 @14205 has 111 MA's), (43, 14436), (47, 14454), (65, 14721), (83, 14859), (95, 14928), (103, 14961), (137, 15186), (138, 15192), (145, 15255), (147, 15267), (148, 15270), (150, 15282), (166, 15369), (174, 15423), (184, 15492), (188, 15528), (207, 15672), (216, 15723), (235, 15867), (236, 15870), (237, 15873), (244, 15921), (251, 15978),

Gene: Mutzi_21 Start: 12236, Stop: 14134, Start Num: 24

Candidate Starts for Mutzi_21:

(Start: 24 @12236 has 111 MA's), (44, 12473), (47, 12485), (49, 12539), (89, 12932), (97, 12965), (103, 12989), (138, 13229), (163, 13370), (179, 13487), (184, 13532), (185, 13535), (194, 13595), (201, 13658), (228, 13832), (236, 13892), (237, 13895), (247, 13964), (250, 13994), (254, 14018), (259, 14045), (260, 14048),

Gene: Natkenzie_21 Start: 15527, Stop: 17449, Start Num: 24

Candidate Starts for Natkenzie_21:

(Start: 24 @15527 has 111 MA's), (41, 15743), (43, 15758), (55, 15932), (71, 16070), (72, 16079), (78, 16148), (79, 16154), (88, 16208), (92, 16232), (134, 16484), (137, 16502), (138, 16508), (145, 16571), (147, 16583), (148, 16586), (150, 16598), (166, 16688), (171, 16715), (193, 16874), (202, 16952), (218, 17048), (222, 17084), (234, 17204), (238, 17237), (251, 17321), (259, 17366),

Gene: Nicole72_22 Start: 15232, Stop: 17253, Start Num: 20

Candidate Starts for Nicole72_22:

(18, 15220), (Start: 20 @15232 has 56 MA's), (39, 15433), (48, 15505), (75, 15817), (81, 15862), (86, 15898), (102, 15967), (109, 15988), (115, 16024), (131, 16141), (136, 16186), (138, 16201), (163, 16531), (184, 16693), (185, 16696), (187, 16717), (204, 16831), (213, 16888), (221, 16948), (223, 16960), (237, 17023), (241, 17053), (259, 17173), (260, 17176), (262, 17182), (268, 17221),

Gene: NoodlelyBoi_27 Start: 14134, Stop: 15984, Start Num: 20

Candidate Starts for NoodlelyBoi_27:

(Start: 20 @14134 has 56 MA's), (75, 14710), (81, 14755), (86, 14791), (102, 14860), (109, 14881), (110, 14884), (114, 14914), (131, 15034), (161, 15229), (163, 15256), (167, 15301), (189, 15445), (211, 15601), (223, 15685), (237, 15748), (241, 15778), (243, 15790), (246, 15805), (248, 15820), (254, 15871), (258, 15889),

Gene: Nordenberg_15 Start: 13519, Stop: 15426, Start Num: 24

Candidate Starts for Nordenberg_15:

(Start: 24 @13519 has 111 MA's), (43, 13750), (47, 13768), (65, 14035), (83, 14173), (95, 14242), (103, 14275), (137, 14500), (138, 14506), (145, 14569), (147, 14581), (148, 14584), (150, 14596), (166, 14683), (184, 14806), (188, 14842), (207, 14986), (216, 15037), (234, 15175), (235, 15181), (236, 15184), (237, 15187), (244, 15235), (251, 15292),

Gene: Nubi_19 Start: 11864, Stop: 13762, Start Num: 24

Candidate Starts for Nubi_19:

(Start: 24 @11864 has 111 MA's), (44, 12101), (47, 12113), (49, 12167), (67, 12398), (89, 12560), (97, 12593), (138, 12857), (162, 12986), (163, 12998), (179, 13115), (184, 13160), (185, 13163), (194,

13223), (196, 13241), (199, 13256), (201, 13286), (203, 13298), (204, 13301), (222, 13421), (228, 13460), (236, 13520), (247, 13592), (250, 13622), (254, 13646), (259, 13673), (260, 13676), (264, 13703),

Gene: NyleyClemson_22 Start: 12914, Stop: 14641, Start Num: 29

Candidate Starts for NyleyClemson_22:

(23, 12851), (Start: 29 @12914 has 9 MA's), (96, 13523), (141, 13811), (143, 13823), (149, 13853), (167, 13949), (168, 13952), (169, 13955), (177, 14015), (200, 14177), (207, 14228), (209, 14237), (213, 14261), (222, 14324), (234, 14399), (235, 14405), (237, 14411), (238, 14432), (254, 14534),

Gene: Odyssey395_28 Start: 14429, Stop: 16156, Start Num: 29

Candidate Starts for Odyssey395_28:

(23, 14366), (Start: 29 @14429 has 9 MA's), (96, 15038), (136, 15275), (141, 15326), (143, 15338), (149, 15368), (167, 15464), (168, 15467), (169, 15470), (177, 15530), (200, 15692), (209, 15752), (210, 15758), (213, 15776), (222, 15839), (239, 15950), (254, 16049),

Gene: Onika_26 Start: 13769, Stop: 15625, Start Num: 20

Candidate Starts for Onika_26:

(Start: 20 @13769 has 56 MA's), (75, 14345), (81, 14390), (86, 14426), (102, 14495), (109, 14516), (110, 14519), (114, 14549), (131, 14669), (140, 14750), (161, 14864), (163, 14891), (189, 15080), (205, 15206), (223, 15320), (224, 15335), (237, 15383), (241, 15413), (243, 15425), (246, 15440), (248, 15455), (254, 15506), (258, 15524), (262, 15542),

Gene: Paries_21 Start: 14887, Stop: 16794, Start Num: 24

Candidate Starts for Paries_21:

(Start: 24 @14887 has 111 MA's), (43, 15118), (47, 15136), (65, 15403), (83, 15541), (95, 15610), (103, 15643), (137, 15868), (138, 15874), (145, 15937), (147, 15949), (148, 15952), (150, 15964), (166, 16051), (174, 16105), (184, 16174), (188, 16210), (207, 16354), (216, 16405), (235, 16549), (236, 16552), (237, 16555), (244, 16603), (251, 16660),

Gene: Paschalis_26 Start: 13783, Stop: 15639, Start Num: 20

Candidate Starts for Paschalis_26:

(Start: 20 @13783 has 56 MA's), (75, 14359), (81, 14404), (86, 14440), (102, 14509), (109, 14530), (110, 14533), (114, 14563), (131, 14683), (140, 14764), (161, 14878), (163, 14905), (189, 15094), (223, 15334), (224, 15349), (237, 15397), (241, 15427), (243, 15439), (246, 15454), (248, 15469), (254, 15520), (258, 15538), (262, 15556),

Gene: Phauci_14 Start: 11906, Stop: 13825, Start Num: 24

Candidate Starts for Phauci_14:

(Start: 24 @11906 has 111 MA's), (39, 12107), (52, 12230), (65, 12401), (72, 12446), (74, 12467), (83, 12524), (118, 12701), (121, 12710), (128, 12761), (130, 12812), (137, 12875), (138, 12881), (145, 12944), (150, 12971), (166, 13058), (192, 13241), (201, 13316), (204, 13331), (207, 13355), (213, 13388), (216, 13406), (223, 13463), (234, 13574), (246, 13643), (247, 13655), (251, 13691), (263, 13757),

Gene: PhedwardCullen_25 Start: 13528, Stop: 15384, Start Num: 20

Candidate Starts for PhedwardCullen_25:

(Start: 20 @13528 has 56 MA's), (75, 14104), (81, 14149), (86, 14185), (102, 14254), (109, 14275), (110, 14278), (114, 14308), (131, 14428), (140, 14509), (161, 14623), (163, 14650), (189, 14839), (205, 14965), (223, 15079), (224, 15094), (237, 15142), (241, 15172), (243, 15184), (246, 15199), (248, 15214), (254, 15265), (258, 15283), (262, 15301),

Gene: Phinally_21 Start: 15336, Stop: 17255, Start Num: 24

Candidate Starts for Phinally_21:

(Start: 24 @15336 has 111 MA's), (39, 15537), (52, 15660), (65, 15831), (72, 15876), (74, 15897), (83, 15954), (111, 16080), (118, 16131), (121, 16140), (128, 16191), (130, 16242), (137, 16305), (138, 16311), (145, 16374), (150, 16401), (166, 16488), (192, 16671), (201, 16746), (204, 16761), (207, 16785), (213, 16818), (216, 16836), (223, 16893), (234, 17004), (246, 17073), (247, 17085), (251, 17121), (263, 17187),

Gene: Phlop_19 Start: 11937, Stop: 13826, Start Num: 24

Candidate Starts for Phlop_19:

(Start: 24 @11937 has 111 MA's), (44, 12174), (47, 12186), (49, 12240), (67, 12465), (89, 12627), (97, 12660), (103, 12684), (138, 12912), (146, 12984), (162, 13041), (179, 13170), (184, 13215), (185, 13218), (201, 13341), (203, 13353), (213, 13413), (234, 13566), (236, 13575), (247, 13647), (250, 13677), (259, 13728), (263, 13749), (267, 13773),

Gene: Phorgeous_26 Start: 13636, Stop: 15492, Start Num: 20

Candidate Starts for Phorgeous_26:

(Start: 20 @13636 has 56 MA's), (75, 14212), (81, 14257), (86, 14293), (102, 14362), (109, 14383), (110, 14386), (114, 14416), (131, 14536), (140, 14617), (161, 14731), (163, 14758), (189, 14947), (205, 15073), (223, 15187), (224, 15202), (237, 15250), (241, 15280), (243, 15292), (246, 15307), (248, 15322), (254, 15373), (258, 15391), (262, 15409),

Gene: Phrancesco_27 Start: 13914, Stop: 15770, Start Num: 20

Candidate Starts for Phrancesco_27:

(Start: 20 @13914 has 56 MA's), (75, 14490), (81, 14535), (86, 14571), (102, 14640), (109, 14661), (110, 14664), (114, 14694), (131, 14814), (140, 14895), (161, 15009), (163, 15036), (189, 15225), (205, 15351), (210, 15375), (223, 15465), (224, 15480), (237, 15528), (241, 15558), (243, 15570), (246, 15585), (248, 15600), (254, 15651), (258, 15669), (262, 15687),

Gene: PhuzzTulsa_24 Start: 14216, Stop: 15943, Start Num: 29

Candidate Starts for PhuzzTulsa_24:

(23, 14153), (Start: 29 @14216 has 9 MA's), (96, 14825), (141, 15113), (143, 15125), (149, 15155), (167, 15251), (168, 15254), (169, 15257), (177, 15317), (200, 15479), (209, 15539), (210, 15545), (213, 15563), (222, 15626), (239, 15737), (254, 15836),

Gene: PierreOrion_27 Start: 13938, Stop: 15794, Start Num: 20

Candidate Starts for PierreOrion_27:

(Start: 20 @13938 has 56 MA's), (75, 14514), (81, 14559), (86, 14595), (102, 14664), (109, 14685), (110, 14688), (114, 14718), (131, 14838), (140, 14919), (161, 15033), (163, 15060), (189, 15249), (205, 15375), (223, 15489), (224, 15504), (237, 15552), (241, 15582), (243, 15594), (246, 15609), (248, 15624), (254, 15675), (258, 15693), (262, 15711),

Gene: PinkCoffee_21 Start: 12521, Stop: 14419, Start Num: 24

Candidate Starts for PinkCoffee_21:

(Start: 24 @12521 has 111 MA's), (44, 12758), (47, 12770), (49, 12824), (89, 13217), (97, 13250), (103, 13274), (138, 13514), (162, 13643), (163, 13655), (179, 13772), (184, 13817), (185, 13820), (194, 13880), (196, 13898), (201, 13943), (203, 13955), (204, 13958), (206, 13979), (222, 14078), (228, 14117), (236, 14177), (247, 14249), (250, 14279), (254, 14303), (259, 14330), (260, 14333), (264, 14360),

Gene: PiperSansNom_27 Start: 14090, Stop: 15946, Start Num: 20

Candidate Starts for PiperSansNom_27:

(Start: 20 @14090 has 56 MA's), (75, 14666), (81, 14711), (86, 14747), (102, 14816), (109, 14837), (110, 14840), (114, 14870), (131, 14990), (140, 15071), (161, 15185), (163, 15212), (189, 15401),

(205, 15527), (223, 15641), (224, 15656), (237, 15704), (241, 15734), (243, 15746), (246, 15761), (248, 15776), (254, 15827), (258, 15845), (262, 15863),

Gene: Piperis_27 Start: 13760, Stop: 15616, Start Num: 20

Candidate Starts for Piperis_27:

(Start: 20 @13760 has 56 MA's), (75, 14336), (81, 14381), (86, 14417), (102, 14486), (109, 14507), (110, 14510), (114, 14540), (131, 14660), (140, 14741), (161, 14855), (163, 14882), (189, 15071), (205, 15197), (223, 15311), (224, 15326), (237, 15374), (241, 15404), (243, 15416), (246, 15431), (248, 15446), (254, 15497), (258, 15515), (262, 15533),

Gene: Pointis_26 Start: 14433, Stop: 16160, Start Num: 29

Candidate Starts for Pointis_26:

(23, 14370), (Start: 29 @14433 has 9 MA's), (96, 15042), (141, 15330), (143, 15342), (149, 15372), (167, 15468), (168, 15471), (169, 15474), (177, 15534), (200, 15696), (209, 15756), (210, 15762), (213, 15780), (222, 15843), (239, 15954), (254, 16053),

Gene: Popstraw_24 Start: 14219, Stop: 15946, Start Num: 29

Candidate Starts for Popstraw_24:

(23, 14156), (Start: 29 @14219 has 9 MA's), (96, 14828), (141, 15116), (143, 15128), (149, 15158), (167, 15254), (168, 15257), (169, 15260), (177, 15320), (200, 15482), (209, 15542), (210, 15548), (213, 15566), (222, 15629), (239, 15740), (254, 15839),

Gene: Portcullis_19 Start: 11883, Stop: 13769, Start Num: 24

Candidate Starts for Portcullis_19:

(Start: 24 @11883 has 111 MA's), (44, 12120), (47, 12132), (49, 12186), (89, 12567), (97, 12600), (104, 12627), (162, 12993), (163, 13005), (179, 13122), (184, 13167), (185, 13170), (194, 13230), (196, 13248), (201, 13293), (203, 13305), (204, 13308), (222, 13428), (228, 13467), (236, 13527), (247, 13599), (250, 13629), (254, 13653), (259, 13680), (260, 13683), (264, 13710),

Gene: Pulchra_28 Start: 14160, Stop: 16016, Start Num: 20

Candidate Starts for Pulchra_28:

(Start: 20 @14160 has 56 MA's), (75, 14736), (81, 14781), (86, 14817), (102, 14886), (109, 14907), (110, 14910), (114, 14940), (131, 15060), (140, 15141), (161, 15255), (163, 15282), (189, 15471), (205, 15597), (223, 15711), (224, 15726), (237, 15774), (241, 15804), (243, 15816), (246, 15831), (248, 15846), (254, 15897), (258, 15915), (262, 15933),

Gene: PullumCavea_19 Start: 11937, Stop: 13826, Start Num: 24

Candidate Starts for PullumCavea_19:

(Start: 24 @11937 has 111 MA's), (44, 12174), (47, 12186), (49, 12240), (67, 12465), (89, 12627), (97, 12660), (103, 12684), (138, 12912), (146, 12984), (162, 13041), (179, 13170), (184, 13215), (185, 13218), (201, 13341), (203, 13353), (213, 13413), (234, 13566), (236, 13575), (247, 13647), (250, 13677), (259, 13728), (263, 13749), (267, 13773),

Gene: Pumpkiney_23 Start: 14240, Stop: 16156, Start Num: 24

Candidate Starts for Pumpkiney_23:

(Start: 24 @14240 has 111 MA's), (41, 14456), (43, 14471), (55, 14645), (72, 14792), (78, 14858), (79, 14864), (88, 14918), (92, 14942), (98, 14966), (134, 15194), (137, 15212), (138, 15218), (145, 15281), (147, 15293), (148, 15296), (150, 15308), (166, 15398), (171, 15425), (193, 15584), (202, 15662), (218, 15758), (251, 16028), (259, 16073),

Gene: Pureglobe5_28 Start: 14443, Stop: 16170, Start Num: 29

Candidate Starts for Pureglobe5_28:

(23, 14380), (Start: 29 @14443 has 9 MA's), (96, 15052), (141, 15340), (143, 15352), (149, 15382), (167, 15478), (168, 15481), (169, 15484), (177, 15544), (200, 15706), (209, 15766), (210, 15772), (213, 15790), (222, 15853), (239, 15964), (254, 16063),

Gene: Quhwah_30 Start: 14383, Stop: 16242, Start Num: 20

Candidate Starts for Quhwah_30:

(Start: 20 @14383 has 56 MA's), (75, 14962), (81, 15007), (86, 15043), (102, 15112), (109, 15133), (110, 15136), (114, 15166), (131, 15286), (140, 15367), (161, 15481), (163, 15508), (189, 15697), (205, 15823), (223, 15937), (224, 15952), (237, 16000), (241, 16030), (243, 16042), (246, 16057), (248, 16072), (254, 16123), (258, 16141), (262, 16159),

Gene: RIPWilbur_24 Start: 13579, Stop: 15306, Start Num: 29

Candidate Starts for RIPWilbur_24:

(23, 13516), (Start: 29 @13579 has 9 MA's), (96, 14188), (141, 14476), (143, 14488), (149, 14518), (167, 14614), (168, 14617), (169, 14620), (177, 14680), (200, 14842), (209, 14902), (210, 14908), (213, 14926), (222, 14989), (239, 15100), (254, 15199),

Gene: RainyPolka_13 Start: 13679, Stop: 15376, Start Num: 30

Candidate Starts for RainyPolka_13:

(Start: 30 @13679 has 12 MA's), (31, 13688), (34, 13757), (36, 13775), (37, 13790), (51, 13922), (53, 13946), (58, 14045), (73, 14126), (82, 14180), (86, 14210), (87, 14213), (93, 14240), (94, 14243), (108, 14291), (124, 14372), (129, 14414), (133, 14483), (147, 14573), (166, 14663), (176, 14729), (179, 14741), (180, 14744), (187, 14810), (199, 14894), (203, 14936), (213, 14996), (236, 15149), (245, 15206), (252, 15266), (253, 15269), (262, 15308), (265, 15332), (270, 15350),

Gene: Ramiel05_26 Start: 13795, Stop: 15651, Start Num: 20

Candidate Starts for Ramiel05_26:

(Start: 20 @13795 has 56 MA's), (75, 14371), (81, 14416), (86, 14452), (102, 14521), (109, 14542), (110, 14545), (114, 14575), (131, 14695), (140, 14776), (161, 14890), (163, 14917), (189, 15106), (223, 15346), (224, 15361), (237, 15409), (241, 15439), (243, 15451), (246, 15466), (248, 15481), (254, 15532), (258, 15550), (262, 15568),

Gene: Rasputia_56 Start: 29361, Stop: 31292, Start Num: 20

Candidate Starts for Rasputia_56:

(Start: 20 @29361 has 56 MA's), (36, 29544), (46, 29628), (51, 29697), (62, 29895), (63, 29904), (77, 30003), (83, 30048), (110, 30165), (180, 30663), (183, 30693), (184, 30705), (189, 30732), (195, 30777), (200, 30816), (205, 30858), (234, 31044), (267, 31251),

Gene: RazzB_22 Start: 12742, Stop: 14469, Start Num: 29

Candidate Starts for RazzB_22:

(23, 12679), (Start: 29 @12742 has 9 MA's), (96, 13351), (141, 13639), (143, 13651), (149, 13681), (167, 13777), (168, 13780), (169, 13783), (177, 13843), (200, 14005), (207, 14056), (209, 14065), (213, 14089), (222, 14152), (234, 14227), (235, 14233), (237, 14239), (238, 14260), (254, 14362),

Gene: Ribeye_21 Start: 15768, Stop: 17690, Start Num: 24

Candidate Starts for Ribeye_21:

(Start: 24 @15768 has 111 MA's), (43, 15999), (65, 16296), (74, 16365), (78, 16413), (83, 16437), (95, 16506), (100, 16530), (121, 16623), (137, 16764), (138, 16770), (145, 16833), (147, 16845), (148, 16848), (150, 16860), (166, 16947), (184, 17070), (188, 17106), (193, 17139), (201, 17211), (207, 17250), (216, 17301), (234, 17439), (235, 17445), (236, 17448), (244, 17499), (251, 17556), (252, 17568), (255, 17577),

Gene: RiverRaider_21 Start: 14172, Stop: 16070, Start Num: 24

Candidate Starts for RiverRaider_21:

(16, 14094), (Start: 24 @14172 has 111 MA's), (43, 14403), (47, 14421), (52, 14496), (65, 14670), (74, 14751), (83, 14817), (95, 14886), (137, 15144), (138, 15150), (145, 15213), (147, 15225), (148, 15228), (150, 15240), (166, 15327), (184, 15450), (188, 15486), (201, 15591), (207, 15630), (216, 15681), (219, 15714), (235, 15825), (236, 15828), (237, 15831), (238, 15852), (244, 15879), (249, 15906), (251, 15936), (252, 15948),

Gene: RoadKill_18 Start: 13249, Stop: 15138, Start Num: 24

Candidate Starts for RoadKill_18:

(22, 13240), (Start: 24 @13249 has 111 MA's), (Start: 30 @13315 has 12 MA's), (43, 13483), (47, 13501), (67, 13774), (78, 13870), (120, 14077), (130, 14155), (138, 14224), (145, 14287), (147, 14299), (148, 14302), (164, 14386), (166, 14401), (181, 14500), (188, 14554), (201, 14659), (216, 14749), (226, 14830), (234, 14887), (237, 14899), (246, 14956), (247, 14968), (251, 15004), (263, 15070),

Gene: RobsFeet_28 Start: 13750, Stop: 15771, Start Num: 20

Candidate Starts for RobsFeet_28:

(Start: 20 @13750 has 56 MA's), (75, 14335), (86, 14416), (91, 14440), (102, 14485), (109, 14506), (110, 14509), (131, 14659), (157, 14917), (159, 14989), (163, 15049), (164, 15073), (184, 15211), (187, 15235), (189, 15238), (204, 15349), (223, 15478), (224, 15493), (227, 15502), (234, 15529), (237, 15541), (241, 15571), (246, 15598), (262, 15700),

Gene: Rockwell_26 Start: 13795, Stop: 15651, Start Num: 20

Candidate Starts for Rockwell_26:

(Start: 20 @13795 has 56 MA's), (75, 14371), (81, 14416), (86, 14452), (102, 14521), (109, 14542), (110, 14545), (114, 14575), (131, 14695), (140, 14776), (161, 14890), (163, 14917), (189, 15106), (223, 15346), (224, 15361), (237, 15409), (241, 15439), (243, 15451), (246, 15466), (248, 15481), (254, 15532), (258, 15550), (262, 15568),

Gene: Rofo_20 Start: 15139, Stop: 17046, Start Num: 24

Candidate Starts for Rofo_20:

(Start: 24 @15139 has 111 MA's), (43, 15370), (47, 15388), (65, 15655), (83, 15793), (95, 15862), (103, 15895), (137, 16120), (138, 16126), (145, 16189), (147, 16201), (148, 16204), (150, 16216), (184, 16426), (188, 16462), (207, 16606), (216, 16657), (235, 16801), (236, 16804), (237, 16807), (244, 16855), (251, 16912),

Gene: RogerDodger_22 Start: 12733, Stop: 14619, Start Num: 24

Candidate Starts for RogerDodger_22:

(Start: 24 @12733 has 111 MA's), (44, 12970), (47, 12982), (49, 13036), (67, 13258), (89, 13420), (97, 13453), (138, 13705), (146, 13777), (162, 13834), (163, 13846), (179, 13963), (184, 14008), (185, 14011), (201, 14134), (203, 14146), (213, 14206), (234, 14359), (236, 14368), (247, 14440), (250, 14470), (263, 14542), (267, 14566),

Gene: Salete_13 Start: 13751, Stop: 15445, Start Num: 30

Candidate Starts for Salete_13:

(Start: 30 @13751 has 12 MA's), (31, 13760), (37, 13862), (51, 13994), (53, 14018), (58, 14114), (73, 14195), (80, 14240), (82, 14249), (87, 14282), (93, 14309), (94, 14312), (108, 14360), (113, 14393), (114, 14396), (122, 14435), (124, 14441), (131, 14519), (133, 14552), (147, 14642), (166, 14732), (176, 14798), (179, 14810), (180, 14813), (194, 14930), (199, 14963), (203, 15005), (220, 15122), (236, 15218), (245, 15275), (253, 15338), (255, 15344), (262, 15377), (265, 15401), (270, 15419), (272, 15434),

Gene: Salvador_19 Start: 11842, Stop: 13740, Start Num: 24

Candidate Starts for Salvador_19:

(Start: 24 @11842 has 111 MA's), (44, 12079), (47, 12091), (49, 12145), (67, 12376), (89, 12538), (97, 12571), (138, 12835), (162, 12964), (163, 12976), (179, 13093), (184, 13138), (185, 13141), (194, 13201), (196, 13219), (199, 13234), (201, 13264), (203, 13276), (204, 13279), (222, 13399), (228, 13438), (236, 13498), (247, 13570), (250, 13600), (254, 13624), (259, 13651), (260, 13654), (264, 13681),

Gene: Sampson_21 Start: 15472, Stop: 17394, Start Num: 24

Candidate Starts for Sampson_21:

(Start: 24 @15472 has 111 MA's), (41, 15688), (43, 15703), (55, 15877), (71, 16015), (72, 16024), (78, 16093), (79, 16099), (88, 16153), (92, 16177), (134, 16429), (137, 16447), (138, 16453), (145, 16516), (147, 16528), (148, 16531), (150, 16543), (166, 16633), (171, 16660), (193, 16819), (202, 16897), (218, 16993), (222, 17029), (234, 17149), (238, 17182), (251, 17266), (259, 17311),

Gene: Sanjuju_18 Start: 14651, Stop: 16558, Start Num: 24

Candidate Starts for Sanjuju_18:

(Start: 24 @14651 has 111 MA's), (43, 14882), (47, 14900), (65, 15167), (83, 15305), (95, 15374), (103, 15407), (137, 15632), (138, 15638), (145, 15701), (147, 15713), (148, 15716), (150, 15728), (166, 15815), (174, 15869), (184, 15938), (188, 15974), (207, 16118), (216, 16169), (235, 16313), (236, 16316), (237, 16319), (244, 16367), (251, 16424),

Gene: Saronaya_20 Start: 14562, Stop: 16469, Start Num: 24

Candidate Starts for Saronaya_20:

(Start: 24 @14562 has 111 MA's), (33, 14697), (43, 14793), (65, 15075), (74, 15144), (78, 15192), (83, 15216), (88, 15252), (95, 15285), (100, 15309), (121, 15402), (137, 15543), (138, 15549), (145, 15612), (147, 15624), (148, 15627), (150, 15639), (166, 15726), (184, 15849), (188, 15885), (201, 15990), (207, 16029), (216, 16080), (234, 16218), (235, 16224), (236, 16227), (244, 16278), (251, 16335), (252, 16347), (255, 16356),

Gene: Savannah_26 Start: 13819, Stop: 15678, Start Num: 20

Candidate Starts for Savannah_26:

(Start: 20 @13819 has 56 MA's), (75, 14398), (81, 14443), (86, 14479), (102, 14548), (109, 14569), (110, 14572), (114, 14602), (131, 14722), (140, 14803), (161, 14917), (163, 14944), (189, 15133), (205, 15259), (223, 15373), (224, 15388), (237, 15436), (241, 15466), (243, 15478), (246, 15493), (248, 15508), (254, 15559), (258, 15577), (262, 15595),

Gene: Savbucketdawg_19 Start: 11635, Stop: 13521, Start Num: 24

Candidate Starts for Savbucketdawg_19:

(Start: 24 @11635 has 111 MA's), (44, 11872), (47, 11884), (49, 11938), (89, 12319), (97, 12352), (104, 12379), (162, 12745), (163, 12757), (179, 12874), (184, 12919), (185, 12922), (194, 12982), (196, 13000), (201, 13045), (203, 13057), (204, 13060), (222, 13180), (228, 13219), (236, 13279), (247, 13351), (250, 13381), (254, 13405), (259, 13432), (260, 13435), (264, 13462),

Gene: SchottB_19 Start: 15551, Stop: 17470, Start Num: 24

Candidate Starts for SchottB_19:

(Start: 24 @15551 has 111 MA's), (33, 15686), (43, 15782), (65, 16076), (74, 16145), (78, 16193), (83, 16217), (88, 16253), (95, 16286), (100, 16310), (121, 16403), (137, 16544), (138, 16550), (145, 16613), (147, 16625), (148, 16628), (150, 16640), (166, 16727), (184, 16850), (188, 16886), (193, 16919), (201, 16991), (207, 17030), (216, 17081), (235, 17225), (236, 17228), (244, 17279), (251, 17336), (252, 17348), (255, 17357),

Gene: Scioto_21 Start: 15527, Stop: 17449, Start Num: 24

Candidate Starts for Scioto_21:

(Start: 24 @15527 has 111 MA's), (41, 15743), (43, 15758), (55, 15932), (71, 16070), (72, 16079), (78, 16148), (79, 16154), (88, 16208), (92, 16232), (134, 16484), (137, 16502), (138, 16508), (145, 16571), (147, 16583), (148, 16586), (150, 16598), (166, 16688), (171, 16715), (193, 16874), (202, 16952), (218, 17048), (222, 17084), (234, 17204), (238, 17237), (251, 17321), (259, 17366),

Gene: Scumberland_28 Start: 14010, Stop: 15866, Start Num: 20

Candidate Starts for Scumberland_28:

(Start: 20 @14010 has 56 MA's), (75, 14586), (81, 14631), (86, 14667), (102, 14736), (109, 14757), (110, 14760), (114, 14790), (131, 14910), (140, 14991), (161, 15105), (163, 15132), (189, 15321), (205, 15447), (223, 15561), (224, 15576), (237, 15624), (241, 15654), (243, 15666), (246, 15681), (248, 15696), (254, 15747), (258, 15765), (262, 15783),

Gene: Sedona_22 Start: 16968, Stop: 18863, Start Num: 24

Candidate Starts for Sedona_22:

(Start: 24 @16968 has 111 MA's), (43, 17199), (47, 17217), (65, 17472), (83, 17610), (95, 17679), (103, 17712), (137, 17937), (138, 17943), (145, 18006), (147, 18018), (148, 18021), (150, 18033), (166, 18120), (184, 18243), (188, 18279), (207, 18423), (216, 18474), (235, 18618), (236, 18621), (237, 18624), (244, 18672), (251, 18729), (271, 18846),

Gene: Selwyn23_28 Start: 13988, Stop: 15844, Start Num: 20

Candidate Starts for Selwyn23_28:

(Start: 20 @13988 has 56 MA's), (75, 14564), (81, 14609), (86, 14645), (102, 14714), (109, 14735), (110, 14738), (114, 14768), (131, 14888), (140, 14969), (161, 15083), (163, 15110), (189, 15299), (205, 15425), (223, 15539), (224, 15554), (237, 15602), (241, 15632), (243, 15644), (246, 15659), (248, 15674), (254, 15725), (258, 15743), (262, 15761),

Gene: Shinji_19 Start: 11824, Stop: 13710, Start Num: 24

Candidate Starts for Shinji_19:

(Start: 24 @11824 has 111 MA's), (44, 12061), (47, 12073), (49, 12127), (89, 12508), (97, 12541), (104, 12568), (162, 12934), (163, 12946), (179, 13063), (184, 13108), (185, 13111), (194, 13171), (196, 13189), (201, 13234), (203, 13246), (204, 13249), (222, 13369), (228, 13408), (236, 13468), (247, 13540), (250, 13570), (254, 13594), (259, 13621), (260, 13624), (264, 13651),

Gene: Shivanishola_20 Start: 14945, Stop: 16852, Start Num: 24

Candidate Starts for Shivanishola_20:

(Start: 24 @14945 has 111 MA's), (43, 15176), (47, 15194), (65, 15461), (83, 15599), (95, 15668), (103, 15701), (137, 15926), (138, 15932), (145, 15995), (147, 16007), (148, 16010), (150, 16022), (166, 16109), (174, 16163), (184, 16232), (188, 16268), (207, 16412), (216, 16463), (235, 16607), (236, 16610), (237, 16613), (244, 16661), (251, 16718),

Gene: Shotgun_26 Start: 13617, Stop: 15476, Start Num: 20

Candidate Starts for Shotgun_26:

(Start: 20 @13617 has 56 MA's), (75, 14196), (81, 14241), (86, 14277), (102, 14346), (109, 14367), (110, 14370), (114, 14400), (131, 14520), (140, 14601), (161, 14715), (163, 14742), (189, 14931), (205, 15057), (223, 15171), (224, 15186), (237, 15234), (241, 15264), (243, 15276), (246, 15291), (248, 15306), (254, 15357), (258, 15375), (262, 15393),

Gene: Shrubaron_27 Start: 13384, Stop: 15405, Start Num: 20

Candidate Starts for Shrubaron_27:

(Start: 20 @13384 has 56 MA's), (75, 13969), (86, 14050), (91, 14074), (102, 14119), (109, 14140), (110, 14143), (131, 14293), (157, 14551), (159, 14623), (163, 14683), (164, 14707), (184, 14845), (187, 14869), (189, 14872), (204, 14983), (223, 15112), (224, 15127), (227, 15136), (234, 15163), (237, 15175), (241, 15205), (246, 15232), (262, 15334),

Gene: SirFrank_26 Start: 13737, Stop: 15587, Start Num: 20

Candidate Starts for SirFrank_26:

(Start: 20 @13737 has 56 MA's), (75, 14313), (81, 14358), (86, 14394), (102, 14463), (109, 14484), (110, 14487), (114, 14517), (131, 14637), (161, 14832), (163, 14859), (167, 14904), (189, 15048), (210, 15198), (211, 15204), (223, 15288), (237, 15351), (241, 15381), (243, 15393), (246, 15408), (248, 15423), (254, 15474), (258, 15492),

Gene: Sitar_22 Start: 16336, Stop: 18231, Start Num: 24

Candidate Starts for Sitar_22:

(Start: 24 @16336 has 111 MA's), (43, 16567), (47, 16585), (65, 16840), (83, 16978), (95, 17047), (103, 17080), (137, 17305), (138, 17311), (145, 17374), (147, 17386), (148, 17389), (150, 17401), (166, 17488), (184, 17611), (188, 17647), (207, 17791), (216, 17842), (235, 17986), (236, 17989), (237, 17992), (244, 18040), (251, 18097), (271, 18214),

Gene: Skugga_25 Start: 13080, Stop: 15104, Start Num: 20

Candidate Starts for Skugga_25:

(Start: 20 @13080 has 56 MA's), (59, 13554), (75, 13668), (79, 13707), (86, 13749), (91, 13773), (102, 13818), (109, 13839), (110, 13842), (112, 13857), (122, 13911), (131, 13992), (136, 14037), (138, 14052), (163, 14382), (164, 14406), (184, 14544), (187, 14568), (189, 14571), (204, 14682), (211, 14727), (223, 14811), (224, 14826), (234, 14862), (237, 14874), (241, 14904), (246, 14931), (262, 15033),

Gene: Smarties_35 Start: 15581, Stop: 17596, Start Num: 20

Candidate Starts for Smarties_35:

(Start: 20 @15581 has 56 MA's), (75, 16160), (81, 16205), (86, 16241), (91, 16265), (102, 16310), (109, 16331), (112, 16349), (131, 16484), (159, 16814), (160, 16817), (163, 16874), (164, 16898), (184, 17036), (189, 17063), (204, 17174), (223, 17303), (224, 17318), (227, 17327), (234, 17354), (237, 17366), (241, 17396), (246, 17423), (258, 17507), (262, 17525),

Gene: SmokingBunny_19 Start: 11842, Stop: 13740, Start Num: 24

Candidate Starts for SmokingBunny_19:

(Start: 24 @11842 has 111 MA's), (44, 12079), (47, 12091), (49, 12145), (67, 12376), (89, 12538), (97, 12571), (138, 12835), (162, 12964), (163, 12976), (179, 13093), (184, 13138), (185, 13141), (194, 13201), (196, 13219), (199, 13234), (201, 13264), (203, 13276), (204, 13279), (222, 13399), (228, 13438), (236, 13498), (247, 13570), (250, 13600), (254, 13624), (259, 13651), (260, 13654), (264, 13681),

Gene: StorminNorm_20 Start: 14442, Stop: 16349, Start Num: 24

Candidate Starts for StorminNorm_20:

(Start: 24 @14442 has 111 MA's), (33, 14577), (43, 14673), (65, 14955), (74, 15024), (78, 15072), (83, 15096), (88, 15132), (95, 15165), (100, 15189), (121, 15282), (137, 15423), (138, 15429), (145, 15492), (147, 15504), (148, 15507), (150, 15519), (166, 15606), (184, 15729), (188, 15765), (201, 15870), (207, 15909), (216, 15960), (234, 16098), (235, 16104), (236, 16107), (244, 16158), (251, 16215), (252, 16227), (255, 16236), (272, 16335),

Gene: Stultus_20 Start: 14947, Stop: 16842, Start Num: 24

Candidate Starts for Stultus_20:

(Start: 24 @14947 has 111 MA's), (43, 15178), (47, 15196), (65, 15451), (83, 15589), (95, 15658), (103, 15691), (137, 15916), (138, 15922), (145, 15985), (147, 15997), (148, 16000), (150, 16012), (166, 16099), (184, 16222), (188, 16258), (207, 16402), (216, 16453), (235, 16597), (236, 16600), (237, 16603), (244, 16651), (251, 16708), (271, 16825),

Gene: Sunny_ Start: 13998, Stop: 15890, Start Num: 15

Candidate Starts for Sunny_:

(11, 13962), (12, 13968), (14, 13995), (Start: 15 @13998 has 2 MA's), (Start: 20 @14052 has 56 MA's), (51, 14373), (75, 14610), (81, 14655), (86, 14691), (102, 14760), (109, 14781), (110, 14784), (117, 14835), (125, 14868), (131, 14934), (140, 15015), (163, 15156), (185, 15321), (189, 15345), (205, 15471), (223, 15585), (224, 15600), (234, 15636), (237, 15648), (241, 15678), (243, 15690), (246, 15705), (265, 15831),

Gene: TP1604_13 Start: 13751, Stop: 15445, Start Num: 30

Candidate Starts for TP1604_13:

(Start: 30 @13751 has 12 MA's), (31, 13760), (37, 13862), (51, 13994), (53, 14018), (58, 14114), (73, 14195), (80, 14240), (82, 14249), (87, 14282), (93, 14309), (94, 14312), (108, 14360), (113, 14393), (114, 14396), (122, 14435), (124, 14441), (131, 14519), (133, 14552), (147, 14642), (164, 14717), (166, 14732), (176, 14798), (179, 14810), (180, 14813), (194, 14930), (199, 14963), (203, 15005), (220, 15122), (236, 15218), (245, 15275), (249, 15296), (253, 15338), (255, 15344), (262, 15377), (265, 15401), (270, 15419), (272, 15434),

Gene: Tangent_18 Start: 14140, Stop: 16047, Start Num: 24

Candidate Starts for Tangent_18:

(Start: 24 @14140 has 111 MA's), (43, 14371), (47, 14389), (65, 14656), (83, 14794), (95, 14863), (103, 14896), (137, 15121), (138, 15127), (145, 15190), (147, 15202), (148, 15205), (150, 15217), (166, 15304), (174, 15358), (184, 15427), (188, 15463), (207, 15607), (216, 15658), (235, 15802), (236, 15805), (237, 15808), (244, 15856), (251, 15913),

Gene: Tangerine_20 Start: 14448, Stop: 16355, Start Num: 24

Candidate Starts for Tangerine_20:

(Start: 24 @14448 has 111 MA's), (33, 14583), (43, 14679), (65, 14961), (74, 15030), (78, 15078), (83, 15102), (88, 15138), (95, 15171), (100, 15195), (121, 15288), (137, 15429), (138, 15435), (145, 15498), (147, 15510), (148, 15513), (150, 15525), (166, 15612), (184, 15735), (188, 15771), (201, 15876), (207, 15915), (216, 15966), (234, 16104), (235, 16110), (236, 16113), (244, 16164), (251, 16221), (252, 16233), (255, 16242), (272, 16341),

Gene: Tardus_22 Start: 14807, Stop: 16726, Start Num: 24

Candidate Starts for Tardus_22:

(Start: 24 @14807 has 111 MA's), (41, 15023), (42, 15035), (43, 15038), (55, 15212), (69, 15326), (71, 15350), (72, 15359), (78, 15425), (79, 15431), (88, 15485), (92, 15509), (134, 15761), (137, 15779), (138, 15785), (145, 15848), (147, 15860), (148, 15863), (150, 15875), (166, 15965), (171, 15992), (193, 16151), (202, 16229), (218, 16325), (238, 16514), (251, 16598), (254, 16616), (260, 16646),

Gene: Teamocil_28 Start: 13248, Stop: 15266, Start Num: 20

Candidate Starts for Teamocil_28:

(Start: 20 @13248 has 56 MA's), (59, 13716), (75, 13830), (79, 13869), (86, 13911), (91, 13935), (102, 13980), (109, 14001), (110, 14004), (112, 14019), (122, 14073), (131, 14154), (138, 14214), (153, 14358), (155, 14376), (163, 14544), (164, 14568), (184, 14706), (189, 14733), (204, 14844), (223, 14973), (224, 14988), (234, 15024), (237, 15036), (241, 15066), (246, 15093), (262, 15195),

Gene: Terij_23 Start: 13292, Stop: 15169, Start Num: 20

Candidate Starts for Terij_23:

(Start: 20 @13292 has 56 MA's), (75, 13889), (79, 13928), (86, 13970), (109, 14060), (123, 14129), (139, 14282), (161, 14402), (173, 14519), (189, 14618), (191, 14633), (196, 14669), (198, 14675), (204, 14729), (213, 14786), (216, 14801), (218, 14813), (223, 14858), (234, 14921), (241, 14963), (257, 15071),

Gene: Thing3_21 Start: 15684, Stop: 17591, Start Num: 24

Candidate Starts for Thing3_21:

(Start: 24 @15684 has 111 MA's), (43, 15915), (47, 15933), (65, 16200), (83, 16338), (95, 16407), (103, 16440), (137, 16665), (138, 16671), (145, 16734), (147, 16746), (148, 16749), (150, 16761), (166, 16848), (174, 16902), (184, 16971), (188, 17007), (207, 17151), (216, 17202), (235, 17346), (236, 17349), (237, 17352), (244, 17400), (251, 17457),

Gene: Tiamoceli_21 Start: 14601, Stop: 16490, Start Num: 24

Candidate Starts for Tiamoceli_21:

(22, 14592), (Start: 24 @14601 has 111 MA's), (Start: 30 @14667 has 12 MA's), (43, 14835), (47, 14853), (67, 15126), (78, 15222), (116, 15414), (120, 15429), (130, 15507), (138, 15576), (145, 15639), (147, 15651), (148, 15654), (164, 15738), (166, 15753), (181, 15852), (188, 15906), (201, 16011), (216, 16101), (226, 16182), (234, 16239), (247, 16320), (251, 16356), (263, 16422),

Gene: TillyBobJoe_19 Start: 11638, Stop: 13524, Start Num: 24

Candidate Starts for TillyBobJoe_19:

(Start: 24 @11638 has 111 MA's), (44, 11875), (47, 11887), (49, 11941), (89, 12322), (97, 12355), (104, 12382), (162, 12748), (163, 12760), (179, 12877), (184, 12922), (185, 12925), (194, 12985), (196, 13003), (201, 13048), (203, 13060), (204, 13063), (222, 13183), (228, 13222), (236, 13282), (247, 13354), (250, 13384), (254, 13408), (259, 13435), (260, 13438), (264, 13465),

Gene: Togo_19 Start: 11842, Stop: 13740, Start Num: 24

Candidate Starts for Togo_19:

(Start: 24 @11842 has 111 MA's), (44, 12079), (47, 12091), (49, 12145), (67, 12376), (89, 12538), (97, 12571), (138, 12835), (162, 12964), (163, 12976), (179, 13093), (184, 13138), (185, 13141), (194, 13201), (196, 13219), (199, 13234), (201, 13264), (203, 13276), (204, 13279), (222, 13399), (228, 13438), (236, 13498), (247, 13570), (250, 13600), (254, 13624), (259, 13651), (260, 13654), (264, 13681),

Gene: TurkishDelight_17 Start: 12983, Stop: 14710, Start Num: 30

Candidate Starts for TurkishDelight_17:

(25, 12944), (Start: 30 @12983 has 12 MA's), (35, 13091), (39, 13139), (40, 13148), (49, 13241), (64, 13418), (82, 13514), (108, 13625), (142, 13889), (144, 13898), (151, 13940), (167, 14003), (179, 14075), (180, 14078), (181, 14096), (194, 14177), (195, 14189), (199, 14210), (204, 14255), (220, 14369), (225, 14405), (244, 14516), (245, 14522), (255, 14594), (257, 14606), (269, 14669),

Gene: Twister6_21 Start: 12280, Stop: 14166, Start Num: 24

Candidate Starts for Twister6_21:

(Start: 24 @12280 has 111 MA's), (44, 12517), (47, 12529), (49, 12583), (67, 12805), (89, 12967), (97, 13000), (138, 13252), (146, 13324), (162, 13381), (163, 13393), (179, 13510), (184, 13555), (185, 13558), (201, 13681), (203, 13693), (213, 13753), (234, 13906), (236, 13915), (247, 13987), (250, 14017), (263, 14089), (267, 14113),

Gene: Twonlo_18 Start: 13218, Stop: 15107, Start Num: 24

Candidate Starts for Twonlo_18:

(22, 13209), (Start: 24 @13218 has 111 MA's), (Start: 30 @13284 has 12 MA's), (43, 13452), (47, 13470), (67, 13743), (78, 13839), (116, 14031), (120, 14046), (130, 14124), (138, 14193), (145, 14256), (147, 14268), (148, 14271), (164, 14355), (166, 14370), (181, 14469), (188, 14523), (201, 14628), (216, 14718), (226, 14799), (234, 14856), (246, 14925), (247, 14937), (251, 14973), (263, 15039),

Gene: Tycho_20 Start: 14565, Stop: 16484, Start Num: 24

Candidate Starts for Tycho_20:

(Start: 24 @14565 has 111 MA's), (33, 14700), (43, 14796), (65, 15090), (74, 15159), (78, 15207), (83, 15231), (88, 15267), (95, 15300), (100, 15324), (121, 15417), (137, 15558), (138, 15564), (145, 15627), (147, 15639), (148, 15642), (150, 15654), (166, 15741), (184, 15864), (188, 15900), (193, 15933), (201, 16005), (207, 16044), (216, 16095), (234, 16233), (235, 16239), (236, 16242), (244, 16293), (251, 16350), (252, 16362), (255, 16371),

Gene: Tyrumbra_25 Start: 12826, Stop: 14847, Start Num: 20

Candidate Starts for Tyrumbra_25:

(Start: 20 @12826 has 56 MA's), (75, 13411), (86, 13492), (91, 13516), (102, 13561), (109, 13582), (131, 13735), (157, 13993), (159, 14065), (163, 14125), (164, 14149), (184, 14287), (187, 14311), (189, 14314), (204, 14425), (223, 14554), (224, 14569), (227, 14578), (234, 14605), (237, 14617), (241, 14647), (246, 14674), (262, 14776),

Gene: Valary_22 Start: 12733, Stop: 14619, Start Num: 24

Candidate Starts for Valary_22:

(Start: 24 @12733 has 111 MA's), (44, 12970), (47, 12982), (49, 13036), (67, 13258), (89, 13420), (97, 13453), (138, 13705), (146, 13777), (162, 13834), (163, 13846), (179, 13963), (184, 14008), (185, 14011), (201, 14134), (203, 14146), (213, 14206), (234, 14359), (236, 14368), (247, 14440), (250, 14470), (263, 14542), (267, 14566),

Gene: VanDeWege_22 Start: 12661, Stop: 14547, Start Num: 24

Candidate Starts for VanDeWege_22:

(Start: 24 @12661 has 111 MA's), (44, 12898), (47, 12910), (49, 12964), (67, 13186), (89, 13348), (97, 13381), (138, 13633), (146, 13705), (162, 13762), (163, 13774), (179, 13891), (184, 13936), (185, 13939), (201, 14062), (203, 14074), (213, 14134), (234, 14287), (236, 14296), (247, 14368), (250, 14398), (263, 14470), (267, 14494),

Gene: Verity_21 Start: 14990, Stop: 16909, Start Num: 24

Candidate Starts for Verity_21:

(Start: 24 @14990 has 111 MA's), (32, 15089), (41, 15206), (42, 15218), (43, 15221), (55, 15395), (69, 15509), (72, 15542), (78, 15608), (79, 15614), (88, 15668), (92, 15692), (101, 15728), (134, 15944), (137, 15962), (138, 15968), (145, 16031), (147, 16043), (148, 16046), (150, 16058), (166, 16148), (171, 16175), (193, 16334), (202, 16412), (208, 16448), (218, 16508), (223, 16553), (234, 16664), (238, 16697), (251, 16781), (254, 16799), (260, 16829),

Gene: ViaConlectus_22 Start: 15542, Stop: 17461, Start Num: 24

Candidate Starts for ViaConlectus_22:

(Start: 24 @15542 has 111 MA's), (41, 15758), (43, 15773), (55, 15947), (72, 16094), (78, 16160), (79, 16166), (88, 16220), (92, 16244), (98, 16268), (134, 16496), (137, 16514), (138, 16520), (145, 16583), (147, 16595), (148, 16598), (150, 16610), (166, 16700), (171, 16727), (193, 16886), (202, 16964), (218, 17060), (222, 17096), (229, 17159), (231, 17189), (234, 17216), (238, 17249), (251, 17333), (259, 17378),

Gene: Vivi2_20 Start: 15311, Stop: 17209, Start Num: 24

Candidate Starts for Vivi2_20:

(Start: 24 @15311 has 111 MA's), (43, 15542), (47, 15560), (65, 15818), (83, 15956), (95, 16025), (103, 16058), (137, 16283), (138, 16289), (145, 16352), (147, 16364), (148, 16367), (150, 16379), (166, 16466), (184, 16589), (188, 16625), (207, 16769), (216, 16820), (235, 16964), (236, 16967), (237, 16970), (244, 17018), (251, 17075),

Gene: Wizard_19 Start: 11982, Stop: 13874, Start Num: 24

Candidate Starts for Wizard_19:

(Start: 24 @11982 has 111 MA's), (44, 12219), (47, 12231), (49, 12285), (67, 12510), (89, 12672), (97, 12705), (104, 12732), (162, 13098), (163, 13110), (179, 13227), (184, 13272), (185, 13275), (194, 13335), (196, 13353), (201, 13398), (203, 13410), (204, 13413), (222, 13533), (228, 13572), (236, 13632), (247, 13704), (250, 13734), (254, 13758), (259, 13785), (260, 13788), (264, 13815),

Gene: Xkcd426_14 Start: 14736, Stop: 16433, Start Num: 30

Candidate Starts for Xkcd426_14:

(28, 14721), (Start: 30 @14736 has 12 MA's), (35, 14823), (50, 14970), (57, 15072), (63, 15117), (80, 15210), (82, 15219), (83, 15225), (94, 15282), (107, 15327), (108, 15330), (115, 15369), (124, 15411), (133, 15522), (173, 15771), (174, 15774), (179, 15798), (183, 15831), (189, 15870), (190, 15876), (199, 15939), (203, 15981), (207, 16008), (208, 16011), (214, 16047), (245, 16257), (253, 16320), (256, 16335), (260, 16353),

Gene: YDN12_14 Start: 13688, Stop: 15382, Start Num: 30

Candidate Starts for YDN12_14:

(Start: 30 @13688 has 12 MA's), (31, 13697), (37, 13799), (53, 13955), (58, 14051), (73, 14132), (80, 14177), (82, 14186), (87, 14219), (93, 14246), (94, 14249), (108, 14297), (113, 14330), (114, 14333), (122, 14372), (124, 14378), (129, 14420), (133, 14489), (166, 14669), (176, 14735), (179, 14747), (194, 14867), (199, 14900), (203, 14942), (220, 15059), (236, 15155), (245, 15212), (253, 15275), (255, 15281), (262, 15314), (265, 15338), (270, 15356), (272, 15371),

Gene: Yeti_27 Start: 13790, Stop: 15646, Start Num: 20

Candidate Starts for Yeti_27:

(Start: 20 @13790 has 56 MA's), (75, 14366), (81, 14411), (86, 14447), (102, 14516), (109, 14537), (110, 14540), (114, 14570), (131, 14690), (140, 14771), (161, 14885), (163, 14912), (189, 15101), (205, 15227), (223, 15341), (224, 15356), (237, 15404), (241, 15434), (243, 15446), (246, 15461), (248, 15476), (254, 15527), (258, 15545), (262, 15563),

Gene: YorkOnyx_21 Start: 14834, Stop: 16753, Start Num: 24

Candidate Starts for YorkOnyx_21:

(Start: 24 @14834 has 111 MA's), (33, 14969), (43, 15065), (65, 15359), (74, 15428), (78, 15476), (83, 15500), (88, 15536), (95, 15569), (100, 15593), (121, 15686), (137, 15827), (138, 15833), (145, 15896), (147, 15908), (148, 15911), (150, 15923), (162, 15959), (164, 15995), (166, 16010), (174, 16064), (184, 16133), (188, 16169), (193, 16202), (201, 16274), (207, 16313), (216, 16364), (234, 16502), (235, 16508), (236, 16511), (244, 16562), (251, 16619), (252, 16631), (255, 16640),

Gene: YungMoney_21 Start: 13292, Stop: 15184, Start Num: 24

Candidate Starts for YungMoney_21:

(Start: 24 @13292 has 111 MA's), (44, 13529), (47, 13541), (49, 13595), (89, 13982), (97, 14015), (103, 14039), (138, 14279), (162, 14408), (163, 14420), (165, 14456), (179, 14537), (184, 14582), (185, 14585), (194, 14645), (201, 14708), (203, 14720), (236, 14942), (247, 15014), (250, 15044), (254, 15068), (259, 15095), (260, 15098),

Gene: Zapato_26 Start: 13457, Stop: 15301, Start Num: 20

Candidate Starts for Zapato_26:

(Start: 20 @13457 has 56 MA's), (75, 14024), (81, 14069), (86, 14105), (102, 14174), (109, 14195), (110, 14198), (131, 14348), (135, 14387), (163, 14570), (164, 14594), (184, 14732), (189, 14759), (211, 14915), (223, 14999), (224, 15014), (227, 15023), (234, 15050), (237, 15062), (240, 15089), (241, 15092), (248, 15134),

Gene: Zipp_21 Start: 15639, Stop: 17558, Start Num: 24

Candidate Starts for Zipp_21:

(Start: 24 @15639 has 111 MA's), (32, 15738), (41, 15855), (42, 15867), (43, 15870), (55, 16044), (69, 16158), (72, 16191), (78, 16257), (79, 16263), (88, 16317), (92, 16341), (101, 16377), (134, 16593), (137, 16611), (138, 16617), (145, 16680), (147, 16692), (148, 16695), (150, 16707), (166, 16797), (171, 16824), (193, 16983), (202, 17061), (208, 17097), (218, 17157), (223, 17202), (234, 17313), (238, 17346), (251, 17430), (254, 17448), (260, 17478),

Gene: Zitch_23 Start: 14769, Stop: 16688, Start Num: 24

Candidate Starts for Zitch_23:

(Start: 24 @14769 has 111 MA's), (41, 14988), (42, 15000), (43, 15003), (49, 15075), (55, 15177), (72, 15324), (78, 15390), (79, 15396), (88, 15450), (92, 15474), (98, 15498), (134, 15726), (137, 15744), (138, 15750), (145, 15813), (147, 15825), (148, 15828), (150, 15840), (166, 15930), (171, 15957), (193, 16116), (202, 16194), (218, 16290), (251, 16560), (254, 16578), (260, 16608),