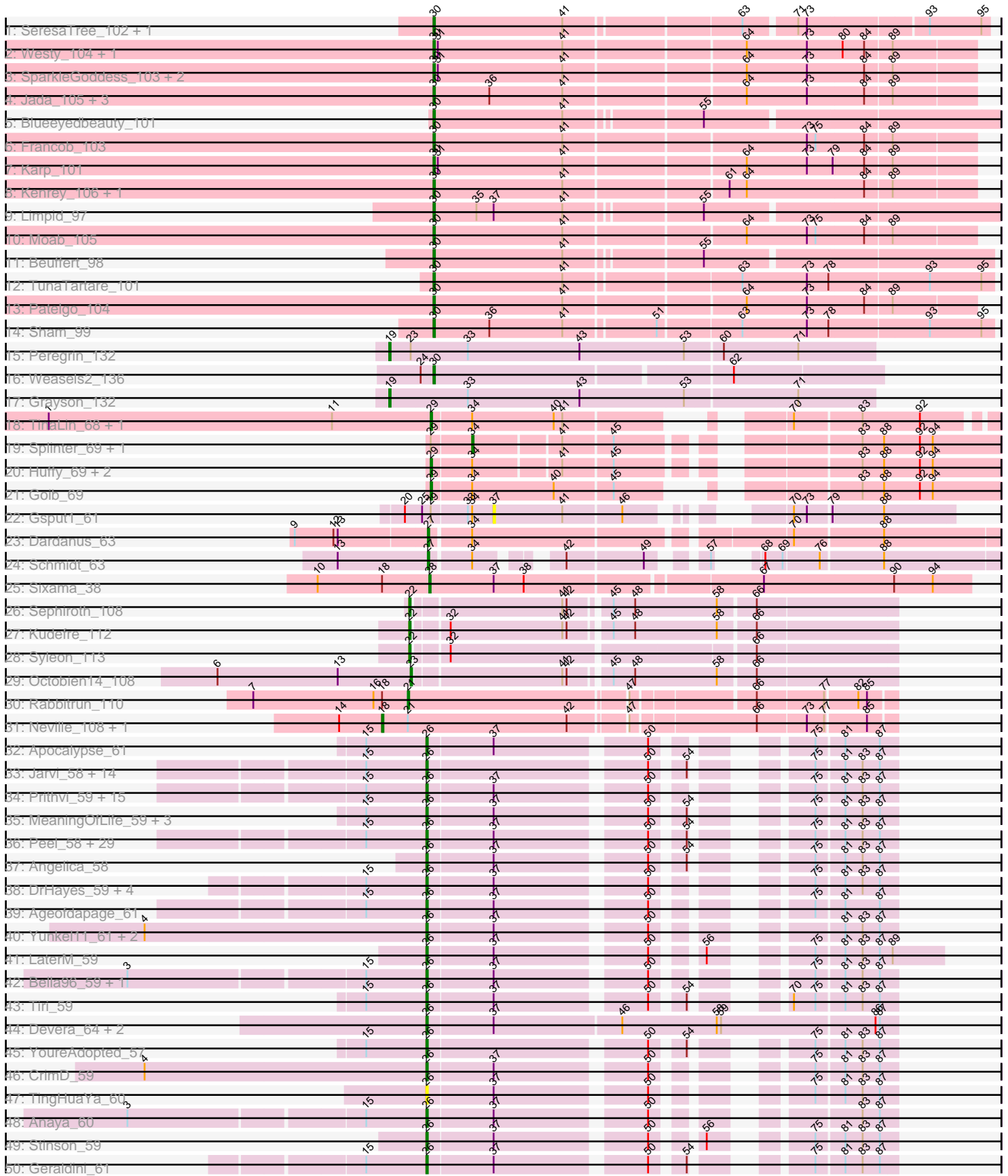


Pham 202748



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 202748 Report

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

Pham number 202748 has 145 members, 9 are drafts.

Phages represented in each track:

- Track 1 : SeresaTree_102, Faust_102
- Track 2 : Westy_104, Belfort_105
- Track 3 : SparkleGoddess_103, Comrade_102, Stigma_102
- Track 4 : Jada_105, Gilson_105, MeganTheeKilla_103, Emma1919_106
- Track 5 : Blueeyedbeauty_101
- Track 6 : Francob_103
- Track 7 : Karp_101
- Track 8 : Kenrey_106, Phredrick_104
- Track 9 : Limpid_97
- Track 10 : Moab_105
- Track 11 : Beuffert_98
- Track 12 : TunaTartare_101
- Track 13 : Patelgo_104
- Track 14 : Sham_99
- Track 15 : Peregrin_132
- Track 16 : Weasels2_136
- Track 17 : Grayson_132
- Track 18 : TinaLin_68, Banquo_68
- Track 19 : Splinter_69, Vendetta_69
- Track 20 : Huffy_69, DinoDaryn_69, TZGordon_70
- Track 21 : Goib_69
- Track 22 : Gspu1_61
- Track 23 : Dardanus_63
- Track 24 : Schmidt_63
- Track 25 : Sixama_38
- Track 26 : Sephiroth_108
- Track 27 : Kudefre_112
- Track 28 : Syleon_113
- Track 29 : Octobien14_108
- Track 30 : Rabbitrun_110
- Track 31 : Neville_108, Trax_110
- Track 32 : Apocalypse_61
- Track 33 : Jarvi_58, Rosmarinus_58, CREW_58, Topper_58, Dalmuri_58, BGIlluvia_58, Jeckyll_58, Joy99_58, Inky_58, Lunahalos_58, Capricorn_58, CallaLilly_60, Belladonna_58, Spock_58, Llorens_58
- Track 34 : Prithvi_59, MacKat_53, Megsy_60, Clipper_62, LindNT_57, Zabiza_53, ActinUp_58, Zavala_60, JAWS_58, TreyKay_59, Veliki_59, TaiwanKao_60,

- Mynx_59, HedwigODU_58, Sulley_58, Ramen_59
- Track 35 : MeaningOfLife_59, Adonis_58, Deby_58, Jayhawk_59
 - Track 36 : Peel_58, TruffulaTree_58, Boiii_58, Hyperbowlee_58, Asayake_58, Bern_59, AlishaPH_58, Atiba_59, BEEST_58, BaghaKamala_57, Padfoot_58, Slimphazie_58, CheetoDust_57, Blizzard_58, Durfee_58, Beezoo_60, Rapunzel97_59, Tachez_58, Homura_58, Padpat_60, BarrelRoll_58, Twitch_58, Emerson_59, Ganymede_59, QuincyRose_57, ShiaSurprise_59, Adephagia_58, Piatt_58, CaseJules_60, Pokerus_57
 - Track 37 : Angelica_58
 - Track 38 : DrHayes_59, TiniBug_59, Urkel_59, LastHope_61, SamuelLPlaqson_59
 - Track 39 : Ageofdapage_61
 - Track 40 : Yunkel11_61, Guanica15_61, Efra2_62
 - Track 41 : LaterM_59
 - Track 42 : Bella96_59, Murucutumbu_59
 - Track 43 : Tiri_59
 - Track 44 : Devera_64, Dole_62, Illumine_62
 - Track 45 : YoureAdopted_57
 - Track 46 : CrimD_59
 - Track 47 : TingHuaYa_60
 - Track 48 : Anaya_60
 - Track 49 : Stinson_59
 - Track 50 : Geraldini_61
 - Track 51 : Curiosium_61
 - Track 52 : Hurricane_58, TBond007_56
 - Track 53 : Keshu_60
 - Track 54 : TribbleTrouble_57
 - Track 55 : Pharb_57
 - Track 56 : MacnCheese_60
 - Track 57 : Pixie_57
 - Track 58 : ShedlockHolmes_59
 - Track 59 : Yuna_63
 - Track 60 : SirPhilip_59
 - Track 61 : Kumao_82

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

The start number called the most often in the published annotations is 26, it was called in 85 of the 136 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ActinUp_58, Adephagia_58, Adonis_58, Ageofdapage_61, AlishaPH_58, Anaya_60, Angelica_58, Apocalypse_61, Asayake_58, Atiba_59, BEEST_58, BGlluviae_58, BaghaKamala_57, BarrelRoll_58, Beezoo_60, Bella96_59, Belladonna_58, Bern_59, Blizzard_58, Boiii_58, CREW_58, CallaLilly_60, Capricorn_58, CaseJules_60, CheetoDust_57, Clipper_62, CrimD_59, Curiosium_61, Dalmuri_58, Deby_58, Devera_64, Dole_62, DrHayes_59, Durfee_58, Efra2_62, Emerson_59, Ganymede_59, Geraldini_61, Guanica15_61, HedwigODU_58, Homura_58, Hyperbowlee_58, Illumine_62, Inky_58, JAWS_58, Jarvi_58, Jayhawk_59, Jeckyll_58, Joy99_58, LastHope_61, LaterM_59, LindNT_57, Llorens_58, Lunahalos_58, MacKat_53, MeaningOfLife_59, Megsy_60, Murucutumbu_59,

Mynx_59, Padfoot_58, Padpat_60, Peel_58, Piatt_58, Pokerus_57, Prithvi_59, QuincyRose_57, Ramen_59, Rapunzel97_59, Rosmarinus_58, SamuelLPlaqson_59, ShiaSurprise_59, SirPhilip_59, Slimphazie_58, Spock_58, Stinson_59, Sulley_58, Tachez_58, TaiwanKao_60, TingHuaYa_60, TiniBug_59, Tiri_59, Topper_58, TreyKay_59, TruffulaTree_58, Twitch_58, Urkel_59, Veliki_59, YoureAdopted_57, Yunkel11_61, Zabiza_53, Zavala_60,

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

- Yuna_63,

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

- Banquo_68, Belfort_105, Beuffert_98, Blueeyedbeauty_101, Comrade_102, Dardanus_63, DinoDaryn_69, Emma1919_106, Faust_102, Francob_103, Gilson_105, Goib_69, Grayson_132, Gsput1_61, Huffy_69, Hurricane_58, Jada_105, Karp_101, Kenrey_106, Keshu_60, Kudrefre_112, Kumao_82, Limpid_97, MacnCheese_60, MeganTheeKilla_103, Moab_105, Neville_108, Octobien14_108, Patelgo_104, Peregrin_132, Pharb_57, Phredrick_104, Pixie_57, Rabbitrun_110, Schmidt_63, Sephiroth_108, SeresaTree_102, Sham_99, ShedlockHolmes_59, Sixama_38, SparkleGoddess_103, Splinter_69, Stigma_102, Syleon_113, TBond007_56, TZGordon_70, TinaLin_68, Trax_110, TripleTrouble_57, TunaTartare_101, Vendetta_69, Weasels2_136, Westy_104,

Summary by start number:

Start 18:

- Found in 4 of 145 (2.8%) of genes in pham
- Manual Annotations of this start: 2 of 136
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Neville_108 (DU2), Trax_110 (DU2),

Start 19:

- Found in 2 of 145 (1.4%) of genes in pham
- Manual Annotations of this start: 2 of 136
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Grayson_132 (CB), Peregrin_132 (CB),

Start 21:

- Found in 3 of 145 (2.1%) of genes in pham
- Manual Annotations of this start: 1 of 136
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Rabbitrun_110 (DU2),

Start 22:

- Found in 3 of 145 (2.1%) of genes in pham
- Manual Annotations of this start: 3 of 136
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kudrefre_112 (DU1), Sephiroth_108 (DU1), Syleon_113 (DU1),

Start 23:

- Found in 2 of 145 (1.4%) of genes in pham
- Manual Annotations of this start: 1 of 136
- Called 50.0% of time when present

- Phage (with cluster) where this start called: Octobien14_108 (DU1),

Start 24:

- Found in 2 of 145 (1.4%) of genes in pham
- Manual Annotations of this start: 1 of 136
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Kumao_82 (singleton),

Start 25:

- Found in 10 of 145 (6.9%) of genes in pham
- Manual Annotations of this start: 9 of 136
- Called 90.0% of time when present
- Phage (with cluster) where this start called: Hurricane_58 (K3), Keshu_60 (K3), MacnCheese_60 (K3), Pharb_57 (K3), Pixie_57 (K3), ShedlockHolmes_59 (K3), TBond007_56 (K3), TripleTrouble_57 (K3), Yuna_63 (K6),

Start 26:

- Found in 92 of 145 (63.4%) of genes in pham
- Manual Annotations of this start: 85 of 136
- Called 98.9% of time when present
- Phage (with cluster) where this start called: ActinUp_58 (K1), Adephegia_58 (K1), Adonis_58 (K1), Ageofdapage_61 (K1), AlishaPH_58 (K1), Anaya_60 (K1), Angelica_58 (K1), Apocalypse_61 (K1), Asayake_58 (K1), Atiba_59 (K1), BEEST_58 (K1), BGlluviae_58 (K1), BaghaKamala_57 (K1), BarrelRoll_58 (K1), Beezoo_60 (K1), Bella96_59 (K1), Belladonna_58 (K1), Bern_59 (K1), Blizzard_58 (K1), Boiiii_58 (K1), CREW_58 (K1), CallaLilly_60 (K1), Capricorn_58 (K1), CaseJules_60 (K1), CheetoDust_57 (K1), Clipper_62 (K1), CrimD_59 (K1), Curiosium_61 (K1), Dalmuri_58 (K1), Deby_58 (K1), Devera_64 (K1), Dole_62 (K1), DrHayes_59 (K1), Durfee_58 (K1), Efra2_62 (K1), Emerson_59 (K1), Ganymede_59 (K1), Geraldini_61 (K1), Guanica15_61 (K1), HedwigODU_58 (K1), Homura_58 (K1), Hyperbowlee_58 (K1), Illumine_62 (K1), Inky_58 (K1), JAWS_58 (K1), Jarvi_58 (K1), Jayhawk_59 (K1), Jeckyll_58 (K1), Joy99_58 (K1), LastHope_61 (K1), LaterM_59 (K1), LindNT_57 (K1), Llorens_58 (K1), Lunahalos_58 (K1), MacKat_53 (K1), MeaningOfLife_59 (K1), Megsy_60 (K1), Murucutumbu_59 (K1), Mynx_59 (K1), Padfoot_58 (K1), Padpat_60 (K1), Peel_58 (K1), Piatt_58 (K1), Pokerus_57 (K1), Prithvi_59 (K1), QuincyRose_57 (K1), Ramen_59 (K1), Rapunzel97_59 (K1), Rosmarinus_58 (K1), SamuelLPlaqson_59 (K1), ShiaSurprise_59 (K1), SirPhilip_59 (K6), Slimphazie_58 (K1), Spock_58 (K1), Stinson_59 (K1), Sulley_58 (K1), Tachez_58 (K1), TaiwanKao_60 (K1), TingHuaYa_60 (K1), TiniBug_59 (K1), Tiri_59 (K1), Topper_58 (K1), TreyKay_59 (K1), TruffulaTree_58 (K1), Twitch_58 (K1), Urkel_59 (K1), Veliki_59 (K1), YoureAdopted_57 (K1), Yunkel11_61 (K1), Zabiza_53 (K1), Zavala_60 (K1),

Start 27:

- Found in 2 of 145 (1.4%) of genes in pham
- Manual Annotations of this start: 2 of 136
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dardanus_63 (CU3), Schmidt_63 (CU4),

Start 28:

- Found in 1 of 145 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 136
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Sixama_38 (DS),

Start 29:

- Found in 9 of 145 (6.2%) of genes in pham
- Manual Annotations of this start: 6 of 136
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Banquo_68 (CU1), DinoDaryn_69 (CU1), Goib_69 (CU1), Huffy_69 (CU1), TZGordon_70 (CU1), TinaLin_68 (CU1),

Start 30:

- Found in 23 of 145 (15.9%) of genes in pham
- Manual Annotations of this start: 21 of 136
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Belfort_105 (BK1), Beuffert_98 (BK1), Blueeyedbeauty_101 (BK1), Comrade_102 (BK1), Emma1919_106 (BK1), Faust_102 (BK1), Francob_103 (BK1), Gilson_105 (BK1), Jada_105 (BK1), Karp_101 (BK1), Kenrey_106 (BK1), Limpid_97 (BK1), MeganTheeKilla_103 (BK1), Moab_105 (BK1), Patelgo_104 (BK1), Phredrick_104 (BK1), SeresaTree_102 (BK1), Sham_99 (BK1), SparkleGoddess_103 (BK1), Stigma_102 (BK1), TunaTartare_101 (BK1), Weasels2_136 (CB), Westy_104 (BK1),

Start 34:

- Found in 11 of 145 (7.6%) of genes in pham
- Manual Annotations of this start: 2 of 136
- Called 18.2% of time when present
- Phage (with cluster) where this start called: Splinter_69 (CU1), Vendetta_69 (CU1),

Start 37:

- Found in 86 of 145 (59.3%) of genes in pham
- No Manual Annotations of this start.
- Called 1.2% of time when present
- Phage (with cluster) where this start called: Gspu1_61 (CU2),

Summary by clusters:

There are 13 clusters represented in this pham: singleton, CU4, CU3, CU2, CU1, CB, K3, K1, BK1, DU1, DU2, DS, K6,

Info for manual annotations of cluster BK1:

- Start number 30 was manually annotated 20 times for cluster BK1.

Info for manual annotations of cluster CB:

- Start number 19 was manually annotated 2 times for cluster CB.
- Start number 30 was manually annotated 1 time for cluster CB.

Info for manual annotations of cluster CU1:

- Start number 29 was manually annotated 6 times for cluster CU1.
- Start number 34 was manually annotated 2 times for cluster CU1.

Info for manual annotations of cluster CU3:

- Start number 27 was manually annotated 1 time for cluster CU3.

Info for manual annotations of cluster CU4:

- Start number 27 was manually annotated 1 time for cluster CU4.

Info for manual annotations of cluster DS:

- Start number 28 was manually annotated 1 time for cluster DS.

Info for manual annotations of cluster DU1:

- Start number 22 was manually annotated 3 times for cluster DU1.
- Start number 23 was manually annotated 1 time for cluster DU1.

Info for manual annotations of cluster DU2:

- Start number 18 was manually annotated 2 times for cluster DU2.
- Start number 21 was manually annotated 1 time for cluster DU2.

Info for manual annotations of cluster K1:

- Start number 26 was manually annotated 84 times for cluster K1.

Info for manual annotations of cluster K3:

- Start number 25 was manually annotated 8 times for cluster K3.

Info for manual annotations of cluster K6:

- Start number 25 was manually annotated 1 time for cluster K6.
- Start number 26 was manually annotated 1 time for cluster K6.

Gene Information:

Gene: ActinUp_58 Start: 40539, Stop: 40805, Start Num: 26

Candidate Starts for ActinUp_58:

(15, 40497), (Start: 26 @40539 has 85 MA's), (37, 40584), (50, 40680), (75, 40752), (81, 40770), (83, 40782), (87, 40794),

Gene: Adephagia_58 Start: 40540, Stop: 40806, Start Num: 26

Candidate Starts for Adephagia_58:

(15, 40498), (Start: 26 @40540 has 85 MA's), (37, 40585), (50, 40681), (54, 40699), (75, 40753), (81, 40771), (83, 40783), (87, 40795),

Gene: Adonis_58 Start: 40787, Stop: 41053, Start Num: 26

Candidate Starts for Adonis_58:

(15, 40745), (Start: 26 @40787 has 85 MA's), (37, 40832), (50, 40928), (54, 40946), (75, 41000), (81, 41018), (83, 41030), (87, 41042),

Gene: Ageofdapage_61 Start: 41528, Stop: 41794, Start Num: 26

Candidate Starts for Ageofdapage_61:

(15, 41486), (Start: 26 @41528 has 85 MA's), (37, 41573), (50, 41669), (75, 41741), (81, 41759), (87, 41783),

Gene: AlishaPH_58 Start: 40801, Stop: 41067, Start Num: 26

Candidate Starts for AlishaPH_58:

(15, 40759), (Start: 26 @40801 has 85 MA's), (37, 40846), (50, 40942), (54, 40960), (75, 41014), (81, 41032), (83, 41044), (87, 41056),

Gene: Anaya_60 Start: 41056, Stop: 41322, Start Num: 26

Candidate Starts for Anaya_60:

(3, 40858), (15, 41014), (Start: 26 @41056 has 85 MA's), (37, 41101), (50, 41197), (83, 41299), (87, 41311),

Gene: Angelica_58 Start: 40695, Stop: 40961, Start Num: 26

Candidate Starts for Angelica_58:

(Start: 26 @40695 has 85 MA's), (37, 40740), (50, 40836), (54, 40854), (75, 40908), (81, 40926), (83, 40938), (87, 40950),

Gene: Apocalypse_61 Start: 41464, Stop: 41730, Start Num: 26

Candidate Starts for Apocalypse_61:

(15, 41422), (Start: 26 @41464 has 85 MA's), (37, 41509), (50, 41605), (75, 41677), (81, 41695), (87, 41719),

Gene: Asayake_58 Start: 40855, Stop: 41121, Start Num: 26

Candidate Starts for Asayake_58:

(15, 40813), (Start: 26 @40855 has 85 MA's), (37, 40900), (50, 40996), (54, 41014), (75, 41068), (81, 41086), (83, 41098), (87, 41110),

Gene: Atiba_59 Start: 40503, Stop: 40769, Start Num: 26

Candidate Starts for Atiba_59:

(15, 40461), (Start: 26 @40503 has 85 MA's), (37, 40548), (50, 40644), (54, 40662), (75, 40716), (81, 40734), (83, 40746), (87, 40758),

Gene: BEEST_58 Start: 40855, Stop: 41121, Start Num: 26

Candidate Starts for BEEST_58:

(15, 40813), (Start: 26 @40855 has 85 MA's), (37, 40900), (50, 40996), (54, 41014), (75, 41068), (81, 41086), (83, 41098), (87, 41110),

Gene: BGlluviae_58 Start: 40658, Stop: 40924, Start Num: 26

Candidate Starts for BGlluviae_58:

(15, 40616), (Start: 26 @40658 has 85 MA's), (50, 40799), (54, 40817), (75, 40871), (81, 40889), (83, 40901), (87, 40913),

Gene: BaghaKamala_57 Start: 39896, Stop: 40162, Start Num: 26

Candidate Starts for BaghaKamala_57:

(15, 39854), (Start: 26 @39896 has 85 MA's), (37, 39941), (50, 40037), (54, 40055), (75, 40109), (81, 40127), (83, 40139), (87, 40151),

Gene: Banquo_68 Start: 41213, Stop: 41536, Start Num: 29

Candidate Starts for Banquo_68:

(1, 40946), (11, 41144), (Start: 29 @41213 has 6 MA's), (Start: 34 @41240 has 2 MA's), (40, 41297), (41, 41303), (70, 41408), (83, 41453), (92, 41492),

Gene: BarrelRoll_58 Start: 40519, Stop: 40785, Start Num: 26

Candidate Starts for BarrelRoll_58:

(15, 40477), (Start: 26 @40519 has 85 MA's), (37, 40564), (50, 40660), (54, 40678), (75, 40732), (81, 40750), (83, 40762), (87, 40774),

Gene: Beezoo_60 Start: 41503, Stop: 41769, Start Num: 26

Candidate Starts for Beezoo_60:

(15, 41461), (Start: 26 @41503 has 85 MA's), (37, 41548), (50, 41644), (54, 41662), (75, 41716), (81, 41734), (83, 41746), (87, 41758),

Gene: Belfort_105 Start: 69661, Stop: 70026, Start Num: 30

Candidate Starts for Belfort_105:

(Start: 30 @69661 has 21 MA's), (31, 69664), (41, 69751), (64, 69871), (73, 69913), (80, 69937), (84, 69952), (89, 69970),

Gene: Bella96_59 Start: 41284, Stop: 41550, Start Num: 26

Candidate Starts for Bella96_59:

(3, 41086), (15, 41242), (Start: 26 @41284 has 85 MA's), (37, 41329), (50, 41425), (75, 41497), (81, 41515), (83, 41527), (87, 41539),

Gene: Belladonna_58 Start: 40658, Stop: 40924, Start Num: 26

Candidate Starts for Belladonna_58:

(15, 40616), (Start: 26 @40658 has 85 MA's), (50, 40799), (54, 40817), (75, 40871), (81, 40889), (83, 40901), (87, 40913),

Gene: Bern_59 Start: 39486, Stop: 39752, Start Num: 26

Candidate Starts for Bern_59:

(15, 39444), (Start: 26 @39486 has 85 MA's), (37, 39531), (50, 39627), (54, 39645), (75, 39699), (81, 39717), (83, 39729), (87, 39741),

Gene: Beuffert_98 Start: 67977, Stop: 68345, Start Num: 30

Candidate Starts for Beuffert_98:

(Start: 30 @67977 has 21 MA's), (41, 68067), (55, 68154),

Gene: Blizzard_58 Start: 40855, Stop: 41121, Start Num: 26

Candidate Starts for Blizzard_58:

(15, 40813), (Start: 26 @40855 has 85 MA's), (37, 40900), (50, 40996), (54, 41014), (75, 41068), (81, 41086), (83, 41098), (87, 41110),

Gene: Blueeyedbeauty_101 Start: 67379, Stop: 67750, Start Num: 30

Candidate Starts for Blueeyedbeauty_101:

(Start: 30 @67379 has 21 MA's), (41, 67469), (55, 67556),

Gene: Boiiii_58 Start: 40857, Stop: 41123, Start Num: 26

Candidate Starts for Boiiii_58:

(15, 40815), (Start: 26 @40857 has 85 MA's), (37, 40902), (50, 40998), (54, 41016), (75, 41070), (81, 41088), (83, 41100), (87, 41112),

Gene: CREW_58 Start: 40658, Stop: 40924, Start Num: 26

Candidate Starts for CREW_58:

(15, 40616), (Start: 26 @40658 has 85 MA's), (50, 40799), (54, 40817), (75, 40871), (81, 40889), (83, 40901), (87, 40913),

Gene: CallaLilly_60 Start: 40581, Stop: 40847, Start Num: 26

Candidate Starts for CallaLilly_60:

(15, 40539), (Start: 26 @40581 has 85 MA's), (50, 40722), (54, 40740), (75, 40794), (81, 40812), (83, 40824), (87, 40836),

Gene: Capricorn_58 Start: 40658, Stop: 40924, Start Num: 26

Candidate Starts for Capricorn_58:

(15, 40616), (Start: 26 @40658 has 85 MA's), (50, 40799), (54, 40817), (75, 40871), (81, 40889), (83, 40901), (87, 40913),

Gene: CaseJules_60 Start: 40855, Stop: 41121, Start Num: 26

Candidate Starts for CaseJules_60:

(15, 40813), (Start: 26 @40855 has 85 MA's), (37, 40900), (50, 40996), (54, 41014), (75, 41068), (81, 41086), (83, 41098), (87, 41110),

Gene: CheetoDust_57 Start: 39940, Stop: 40206, Start Num: 26

Candidate Starts for CheetoDust_57:

(15, 39898), (Start: 26 @39940 has 85 MA's), (37, 39985), (50, 40081), (54, 40099), (75, 40153), (81, 40171), (83, 40183), (87, 40195),

Gene: Clipper_62 Start: 41118, Stop: 41384, Start Num: 26

Candidate Starts for Clipper_62:

(15, 41076), (Start: 26 @41118 has 85 MA's), (37, 41163), (50, 41259), (75, 41331), (81, 41349), (83, 41361), (87, 41373),

Gene: Comrade_102 Start: 68978, Stop: 69343, Start Num: 30

Candidate Starts for Comrade_102:

(Start: 30 @68978 has 21 MA's), (31, 68981), (41, 69068), (64, 69188), (73, 69230), (84, 69269), (89, 69287),

Gene: CrimD_59 Start: 41076, Stop: 41342, Start Num: 26

Candidate Starts for CrimD_59:

(4, 40881), (Start: 26 @41076 has 85 MA's), (37, 41121), (50, 41217), (75, 41289), (81, 41307), (83, 41319), (87, 41331),

Gene: Curiosium_61 Start: 39723, Stop: 40043, Start Num: 26

Candidate Starts for Curiosium_61:

(Start: 26 @39723 has 85 MA's), (37, 39768), (46, 39855), (58, 39921), (59, 39924), (87, 40032),

Gene: Dalmuri_58 Start: 40658, Stop: 40924, Start Num: 26

Candidate Starts for Dalmuri_58:

(15, 40616), (Start: 26 @40658 has 85 MA's), (50, 40799), (54, 40817), (75, 40871), (81, 40889), (83, 40901), (87, 40913),

Gene: Dardanus_63 Start: 39624, Stop: 39992, Start Num: 27

Candidate Starts for Dardanus_63:

(9, 39534), (12, 39561), (13, 39564), (Start: 27 @39624 has 2 MA's), (Start: 34 @39651 has 2 MA's), (70, 39855), (88, 39915),

Gene: Deby_58 Start: 40717, Stop: 40983, Start Num: 26

Candidate Starts for Deby_58:

(15, 40675), (Start: 26 @40717 has 85 MA's), (37, 40762), (50, 40858), (54, 40876), (75, 40930), (81, 40948), (83, 40960), (87, 40972),

Gene: Devera_64 Start: 41616, Stop: 41936, Start Num: 26

Candidate Starts for Devera_64:

(Start: 26 @41616 has 85 MA's), (37, 41661), (46, 41748), (58, 41814), (59, 41817), (86, 41922), (87, 41925),

Gene: DinoDaryn_69 Start: 41479, Stop: 41826, Start Num: 29

Candidate Starts for DinoDaryn_69:

(Start: 29 @41479 has 6 MA's), (Start: 34 @41506 has 2 MA's), (41, 41563), (45, 41596), (83, 41731), (88, 41746), (92, 41770), (94, 41779),

Gene: Dole_62 Start: 41619, Stop: 41939, Start Num: 26

Candidate Starts for Dole_62:

(Start: 26 @41619 has 85 MA's), (37, 41664), (46, 41751), (58, 41817), (59, 41820), (86, 41925), (87, 41928),

Gene: DrHayes_59 Start: 41439, Stop: 41705, Start Num: 26

Candidate Starts for DrHayes_59:

(15, 41397), (Start: 26 @41439 has 85 MA's), (37, 41484), (50, 41580), (75, 41652), (81, 41670), (83, 41682), (87, 41694),

Gene: Durfee_58 Start: 40855, Stop: 41121, Start Num: 26

Candidate Starts for Durfee_58:

(15, 40813), (Start: 26 @40855 has 85 MA's), (37, 40900), (50, 40996), (54, 41014), (75, 41068), (81, 41086), (83, 41098), (87, 41110),

Gene: Efra2_62 Start: 40615, Stop: 40881, Start Num: 26

Candidate Starts for Efra2_62:

(4, 40420), (Start: 26 @40615 has 85 MA's), (37, 40660), (50, 40756), (81, 40846), (83, 40858), (87, 40870),

Gene: Emerson_59 Start: 40536, Stop: 40802, Start Num: 26

Candidate Starts for Emerson_59:

(15, 40494), (Start: 26 @40536 has 85 MA's), (37, 40581), (50, 40677), (54, 40695), (75, 40749), (81, 40767), (83, 40779), (87, 40791),

Gene: Emma1919_106 Start: 68431, Stop: 68796, Start Num: 30

Candidate Starts for Emma1919_106:

(Start: 30 @68431 has 21 MA's), (36, 68470), (41, 68521), (64, 68641), (73, 68683), (84, 68722), (89, 68740),

Gene: Faust_102 Start: 69072, Stop: 69434, Start Num: 30

Candidate Starts for Faust_102:

(Start: 30 @69072 has 21 MA's), (41, 69162), (63, 69276), (71, 69309), (73, 69315), (93, 69393), (95, 69429),

Gene: Francob_103 Start: 68601, Stop: 68966, Start Num: 30

Candidate Starts for Francob_103:

(Start: 30 @68601 has 21 MA's), (41, 68691), (73, 68853), (75, 68859), (84, 68892), (89, 68910),

Gene: Ganymede_59 Start: 40919, Stop: 41185, Start Num: 26

Candidate Starts for Ganymede_59:

(15, 40877), (Start: 26 @40919 has 85 MA's), (37, 40964), (50, 41060), (54, 41078), (75, 41132), (81, 41150), (83, 41162), (87, 41174),

Gene: Geraldini_61 Start: 41585, Stop: 41851, Start Num: 26

Candidate Starts for Geraldini_61:

(15, 41543), (Start: 26 @41585 has 85 MA's), (37, 41630), (50, 41726), (54, 41744), (75, 41798), (81, 41816), (83, 41828), (87, 41840),

Gene: Gilson_105 Start: 68393, Stop: 68758, Start Num: 30

Candidate Starts for Gilson_105:

(Start: 30 @68393 has 21 MA's), (36, 68432), (41, 68483), (64, 68603), (73, 68645), (84, 68684), (89, 68702),

Gene: Goib_69 Start: 42589, Stop: 42924, Start Num: 29

Candidate Starts for Goib_69:

(Start: 29 @42589 has 6 MA's), (Start: 34 @42616 has 2 MA's), (40, 42673), (45, 42712), (83, 42829), (88, 42844), (92, 42868), (94, 42877),

Gene: Grayson_132 Start: 78512, Stop: 78844, Start Num: 19

Candidate Starts for Grayson_132:

(Start: 19 @78512 has 2 MA's), (33, 78566), (43, 78644), (53, 78716), (71, 78791),

Gene: Gspu1_61 Start: 40315, Stop: 40578, Start Num: 37

Candidate Starts for Gspu1_61:

(20, 40255), (Start: 25 @40267 has 9 MA's), (Start: 29 @40273 has 6 MA's), (33, 40297), (Start: 34 @40300 has 2 MA's), (37, 40315), (41, 40363), (46, 40402), (70, 40471), (73, 40480), (79, 40495), (88, 40531),

Gene: Guanica15_61 Start: 40356, Stop: 40622, Start Num: 26

Candidate Starts for Guanica15_61:

(4, 40161), (Start: 26 @40356 has 85 MA's), (37, 40401), (50, 40497), (81, 40587), (83, 40599), (87, 40611),

Gene: HedwigODU_58 Start: 40539, Stop: 40805, Start Num: 26

Candidate Starts for HedwigODU_58:

(15, 40497), (Start: 26 @40539 has 85 MA's), (37, 40584), (50, 40680), (75, 40752), (81, 40770), (83, 40782), (87, 40794),

Gene: Homura_58 Start: 40658, Stop: 40924, Start Num: 26

Candidate Starts for Homura_58:

(15, 40616), (Start: 26 @40658 has 85 MA's), (37, 40703), (50, 40799), (54, 40817), (75, 40871), (81, 40889), (83, 40901), (87, 40913),

Gene: Huff_69 Start: 41479, Stop: 41826, Start Num: 29

Candidate Starts for Huff_69:

(Start: 29 @41479 has 6 MA's), (Start: 34 @41506 has 2 MA's), (41, 41563), (45, 41596), (83, 41731), (88, 41746), (92, 41770), (94, 41779),

Gene: Hurricane_58 Start: 40805, Stop: 41074, Start Num: 25

Candidate Starts for Hurricane_58:

(15, 40766), (Start: 25 @40805 has 9 MA's), (37, 40850), (44, 40916), (46, 40937), (87, 41063),

Gene: Hyperbowlee_58 Start: 40855, Stop: 41121, Start Num: 26

Candidate Starts for Hyperbowlee_58:

(15, 40813), (Start: 26 @40855 has 85 MA's), (37, 40900), (50, 40996), (54, 41014), (75, 41068), (81, 41086), (83, 41098), (87, 41110),

Gene: Illumine_62 Start: 41618, Stop: 41938, Start Num: 26

Candidate Starts for Illumine_62:

(Start: 26 @41618 has 85 MA's), (37, 41663), (46, 41750), (58, 41816), (59, 41819), (86, 41924), (87, 41927),

Gene: Inky_58 Start: 40658, Stop: 40924, Start Num: 26

Candidate Starts for Inky_58:

(15, 40616), (Start: 26 @40658 has 85 MA's), (50, 40799), (54, 40817), (75, 40871), (81, 40889), (83, 40901), (87, 40913),

Gene: JAWS_58 Start: 40525, Stop: 40791, Start Num: 26

Candidate Starts for JAWS_58:

(15, 40483), (Start: 26 @40525 has 85 MA's), (37, 40570), (50, 40666), (75, 40738), (81, 40756), (83, 40768), (87, 40780),

Gene: Jada_105 Start: 68906, Stop: 69271, Start Num: 30

Candidate Starts for Jada_105:

(Start: 30 @68906 has 21 MA's), (36, 68945), (41, 68996), (64, 69116), (73, 69158), (84, 69197), (89, 69215),

Gene: Jarvi_58 Start: 40658, Stop: 40924, Start Num: 26

Candidate Starts for Jarvi_58:

(15, 40616), (Start: 26 @40658 has 85 MA's), (50, 40799), (54, 40817), (75, 40871), (81, 40889), (83, 40901), (87, 40913),

Gene: Jayhawk_59 Start: 40534, Stop: 40800, Start Num: 26

Candidate Starts for Jayhawk_59:

(15, 40492), (Start: 26 @40534 has 85 MA's), (37, 40579), (50, 40675), (54, 40693), (75, 40747), (81, 40765), (83, 40777), (87, 40789),

Gene: Jeckyll_58 Start: 40658, Stop: 40924, Start Num: 26

Candidate Starts for Jeckyll_58:

(15, 40616), (Start: 26 @40658 has 85 MA's), (50, 40799), (54, 40817), (75, 40871), (81, 40889), (83, 40901), (87, 40913),

Gene: Joy99_58 Start: 40587, Stop: 40853, Start Num: 26

Candidate Starts for Joy99_58:

(15, 40545), (Start: 26 @40587 has 85 MA's), (50, 40728), (54, 40746), (75, 40800), (81, 40818), (83, 40830), (87, 40842),

Gene: Karp_101 Start: 68949, Stop: 69314, Start Num: 30

Candidate Starts for Karp_101:

(Start: 30 @68949 has 21 MA's), (31, 68952), (41, 69039), (64, 69159), (73, 69201), (79, 69219), (84, 69240), (89, 69258),

Gene: Kenrey_106 Start: 68621, Stop: 68986, Start Num: 30

Candidate Starts for Kenrey_106:

(Start: 30 @68621 has 21 MA's), (41, 68711), (61, 68819), (64, 68831), (84, 68912), (89, 68930),

Gene: Keshu_60 Start: 40903, Stop: 41172, Start Num: 25

Candidate Starts for Keshu_60:

(15, 40864), (Start: 25 @40903 has 9 MA's), (37, 40948), (44, 41014), (46, 41035), (87, 41161),

Gene: Kudrefre_112 Start: 61740, Stop: 62057, Start Num: 22

Candidate Starts for Kudrefre_112:

(Start: 22 @61740 has 3 MA's), (32, 61761), (41, 61839), (42, 61842), (45, 61866), (48, 61881), (58, 61938), (66, 61962),

Gene: Kumao_82 Start: 53900, Stop: 54196, Start Num: 24

Candidate Starts for Kumao_82:

(17, 53870), (Start: 24 @53900 has 1 MA's), (52, 54062), (65, 54089), (69, 54113), (72, 54125), (74, 54131), (86, 54173), (87, 54176),

Gene: LastHope_61 Start: 39701, Stop: 39967, Start Num: 26

Candidate Starts for LastHope_61:

(15, 39659), (Start: 26 @39701 has 85 MA's), (37, 39746), (50, 39842), (75, 39914), (81, 39932), (83, 39944), (87, 39956),

Gene: LaterM_59 Start: 41420, Stop: 41719, Start Num: 26

Candidate Starts for LaterM_59:

(Start: 26 @41420 has 85 MA's), (37, 41465), (50, 41561), (56, 41585), (75, 41633), (81, 41651), (83, 41663), (87, 41675), (89, 41684),

Gene: Limpid_97 Start: 67416, Stop: 67787, Start Num: 30

Candidate Starts for Limpid_97:

(Start: 30 @67416 has 21 MA's), (35, 67446), (37, 67458), (41, 67506), (55, 67593),

Gene: LindNT_57 Start: 40742, Stop: 41008, Start Num: 26

Candidate Starts for LindNT_57:

(15, 40700), (Start: 26 @40742 has 85 MA's), (37, 40787), (50, 40883), (75, 40955), (81, 40973), (83, 40985), (87, 40997),

Gene: Llorens_58 Start: 40658, Stop: 40924, Start Num: 26

Candidate Starts for Llorens_58:

(15, 40616), (Start: 26 @40658 has 85 MA's), (50, 40799), (54, 40817), (75, 40871), (81, 40889), (83, 40901), (87, 40913),

Gene: Lunahalos_58 Start: 40658, Stop: 40924, Start Num: 26

Candidate Starts for Lunahalos_58:

(15, 40616), (Start: 26 @40658 has 85 MA's), (50, 40799), (54, 40817), (75, 40871), (81, 40889), (83, 40901), (87, 40913),

Gene: MacKat_53 Start: 36002, Stop: 36268, Start Num: 26

Candidate Starts for MacKat_53:

(15, 35960), (Start: 26 @36002 has 85 MA's), (37, 36047), (50, 36143), (75, 36215), (81, 36233), (83, 36245), (87, 36257),

Gene: MacnCheese_60 Start: 41385, Stop: 41663, Start Num: 25

Candidate Starts for MacnCheese_60:

(2, 41154), (3, 41190), (Start: 25 @41385 has 9 MA's), (37, 41430), (43, 41490), (44, 41496), (46, 41517), (91, 41655),

Gene: MeaningOfLife_59 Start: 41413, Stop: 41679, Start Num: 26

Candidate Starts for MeaningOfLife_59:

(15, 41371), (Start: 26 @41413 has 85 MA's), (37, 41458), (50, 41554), (54, 41572), (75, 41626), (81, 41644), (83, 41656), (87, 41668),

Gene: MeganTheeKilla_103 Start: 67750, Stop: 68115, Start Num: 30

Candidate Starts for MeganTheeKilla_103:

(Start: 30 @67750 has 21 MA's), (36, 67789), (41, 67840), (64, 67960), (73, 68002), (84, 68041), (89, 68059),

Gene: Megsy_60 Start: 40807, Stop: 41073, Start Num: 26

Candidate Starts for Megsy_60:

(15, 40765), (Start: 26 @40807 has 85 MA's), (37, 40852), (50, 40948), (75, 41020), (81, 41038), (83, 41050), (87, 41062),

Gene: Moab_105 Start: 70915, Stop: 71280, Start Num: 30

Candidate Starts for Moab_105:

(Start: 30 @70915 has 21 MA's), (41, 71005), (64, 71125), (73, 71167), (75, 71173), (84, 71206), (89, 71224),

Gene: Murucutumbu_59 Start: 41513, Stop: 41779, Start Num: 26

Candidate Starts for Murucutumbu_59:

(3, 41315), (15, 41471), (Start: 26 @41513 has 85 MA's), (37, 41558), (50, 41654), (75, 41726), (81, 41744), (83, 41756), (87, 41768),

Gene: Mynx_59 Start: 40855, Stop: 41121, Start Num: 26

Candidate Starts for Mynx_59:

(15, 40813), (Start: 26 @40855 has 85 MA's), (37, 40900), (50, 40996), (75, 41068), (81, 41086), (83, 41098), (87, 41110),

Gene: Neville_108 Start: 62420, Stop: 62755, Start Num: 18

Candidate Starts for Neville_108:

(14, 62390), (Start: 18 @62420 has 2 MA's), (Start: 21 @62438 has 1 MA's), (42, 62549), (47, 62585), (66, 62666), (73, 62699), (77, 62711), (85, 62738),

Gene: Octobien14_108 Start: 60532, Stop: 60849, Start Num: 23

Candidate Starts for Octobien14_108:

(6, 60397), (13, 60481), (Start: 23 @60532 has 1 MA's), (41, 60631), (42, 60634), (45, 60658), (48, 60673), (58, 60730), (66, 60754),

Gene: Padfoot_58 Start: 40855, Stop: 41121, Start Num: 26

Candidate Starts for Padfoot_58:

(15, 40813), (Start: 26 @40855 has 85 MA's), (37, 40900), (50, 40996), (54, 41014), (75, 41068), (81, 41086), (83, 41098), (87, 41110),

Gene: Padpat_60 Start: 40536, Stop: 40802, Start Num: 26

Candidate Starts for Padpat_60:

(15, 40494), (Start: 26 @40536 has 85 MA's), (37, 40581), (50, 40677), (54, 40695), (75, 40749), (81, 40767), (83, 40779), (87, 40791),

Gene: Patelgo_104 Start: 70001, Stop: 70366, Start Num: 30

Candidate Starts for Patelgo_104:

(Start: 30 @70001 has 21 MA's), (41, 70091), (64, 70211), (73, 70253), (84, 70292), (89, 70310),

Gene: Peel_58 Start: 40660, Stop: 40926, Start Num: 26

Candidate Starts for Peel_58:

(15, 40618), (Start: 26 @40660 has 85 MA's), (37, 40705), (50, 40801), (54, 40819), (75, 40873), (81, 40891), (83, 40903), (87, 40915),

Gene: Peregrin_132 Start: 78720, Stop: 79052, Start Num: 19

Candidate Starts for Peregrin_132:

(Start: 19 @78720 has 2 MA's), (Start: 23 @78735 has 1 MA's), (33, 78774), (43, 78852), (53, 78924), (60, 78948), (71, 78999),

Gene: Pharb_57 Start: 40007, Stop: 40276, Start Num: 25

Candidate Starts for Pharb_57:

(Start: 25 @40007 has 9 MA's), (44, 40118), (46, 40139), (87, 40265),

Gene: Phredrick_104 Start: 67726, Stop: 68091, Start Num: 30

Candidate Starts for Phredrick_104:

(Start: 30 @67726 has 21 MA's), (41, 67816), (61, 67924), (64, 67936), (84, 68017), (89, 68035),

Gene: Piatt_58 Start: 40855, Stop: 41121, Start Num: 26

Candidate Starts for Piatt_58:

(15, 40813), (Start: 26 @40855 has 85 MA's), (37, 40900), (50, 40996), (54, 41014), (75, 41068), (81, 41086), (83, 41098), (87, 41110),

Gene: Pixie_57 Start: 40343, Stop: 40612, Start Num: 25

Candidate Starts for Pixie_57:

(15, 40304), (Start: 25 @40343 has 9 MA's), (37, 40388), (44, 40454), (46, 40475), (75, 40559), (87, 40601),

Gene: Pokerus_57 Start: 40585, Stop: 40851, Start Num: 26

Candidate Starts for Pokerus_57:

(15, 40543), (Start: 26 @40585 has 85 MA's), (37, 40630), (50, 40726), (54, 40744), (75, 40798), (81, 40816), (83, 40828), (87, 40840),

Gene: Prithvi_59 Start: 40742, Stop: 41008, Start Num: 26

Candidate Starts for Prithvi_59:

(15, 40700), (Start: 26 @40742 has 85 MA's), (37, 40787), (50, 40883), (75, 40955), (81, 40973), (83, 40985), (87, 40997),

Gene: QuincyRose_57 Start: 40919, Stop: 41185, Start Num: 26

Candidate Starts for QuincyRose_57:

(15, 40877), (Start: 26 @40919 has 85 MA's), (37, 40964), (50, 41060), (54, 41078), (75, 41132), (81, 41150), (83, 41162), (87, 41174),

Gene: Rabbitrun_110 Start: 63382, Stop: 63696, Start Num: 21

Candidate Starts for Rabbitrun_110:

(7, 63274), (16, 63358), (Start: 18 @63364 has 2 MA's), (Start: 21 @63382 has 1 MA's), (47, 63529), (66, 63607), (77, 63652), (82, 63673), (85, 63679),

Gene: Ramen_59 Start: 40541, Stop: 40807, Start Num: 26

Candidate Starts for Ramen_59:

(15, 40499), (Start: 26 @40541 has 85 MA's), (37, 40586), (50, 40682), (75, 40754), (81, 40772), (83, 40784), (87, 40796),

Gene: Rapunzel97_59 Start: 40534, Stop: 40800, Start Num: 26

Candidate Starts for Rapunzel97_59:

(15, 40492), (Start: 26 @40534 has 85 MA's), (37, 40579), (50, 40675), (54, 40693), (75, 40747), (81, 40765), (83, 40777), (87, 40789),

Gene: Rosmarinus_58 Start: 40646, Stop: 40912, Start Num: 26

Candidate Starts for Rosmarinus_58:

(15, 40604), (Start: 26 @40646 has 85 MA's), (50, 40787), (54, 40805), (75, 40859), (81, 40877), (83, 40889), (87, 40901),

Gene: SamuelLPlaqsom_59 Start: 41439, Stop: 41705, Start Num: 26

Candidate Starts for SamuelLPlaqsom_59:

(15, 41397), (Start: 26 @41439 has 85 MA's), (37, 41484), (50, 41580), (75, 41652), (81, 41670), (83, 41682), (87, 41694),

Gene: Schmidt_63 Start: 39059, Stop: 39370, Start Num: 27

Candidate Starts for Schmidt_63:

(13, 38996), (Start: 27 @39059 has 2 MA's), (Start: 34 @39086 has 2 MA's), (42, 39128), (49, 39179), (57, 39206), (68, 39215), (69, 39227), (76, 39251), (88, 39293),

Gene: Sephiroth_108 Start: 61495, Stop: 61812, Start Num: 22

Candidate Starts for Sephiroth_108:

(Start: 22 @61495 has 3 MA's), (41, 61594), (42, 61597), (45, 61621), (48, 61636), (58, 61693), (66, 61717),

Gene: SeresaTree_102 Start: 68454, Stop: 68816, Start Num: 30

Candidate Starts for SeresaTree_102:

(Start: 30 @68454 has 21 MA's), (41, 68544), (63, 68658), (71, 68691), (73, 68697), (93, 68775), (95, 68811),

Gene: Sham_99 Start: 68644, Stop: 69018, Start Num: 30

Candidate Starts for Sham_99:

(Start: 30 @68644 has 21 MA's), (36, 68683), (41, 68734), (51, 68794), (63, 68848), (73, 68893), (78, 68908), (93, 68974), (95, 69010),

Gene: ShedlockHolmes_59 Start: 40862, Stop: 41131, Start Num: 25

Candidate Starts for ShedlockHolmes_59:

(3, 40667), (15, 40823), (Start: 25 @40862 has 9 MA's), (37, 40907), (44, 40973), (46, 40994), (87, 41120),

Gene: ShiaSurprise_59 Start: 40855, Stop: 41121, Start Num: 26

Candidate Starts for ShiaSurprise_59:

(15, 40813), (Start: 26 @40855 has 85 MA's), (37, 40900), (50, 40996), (54, 41014), (75, 41068), (81, 41086), (83, 41098), (87, 41110),

Gene: SirPhilip_59 Start: 41271, Stop: 41540, Start Num: 26

Candidate Starts for SirPhilip_59:

(3, 41073), (5, 41124), (Start: 26 @41271 has 85 MA's), (37, 41316), (39, 41343), (46, 41403), (87, 41529),

Gene: Sixama_38 Start: 12651, Stop: 12286, Start Num: 28

Candidate Starts for Sixama_38:

(10, 12729), (Start: 18 @12684 has 2 MA's), (Start: 28 @12651 has 1 MA's), (37, 12606), (38, 12585), (67, 12429), (90, 12339), (94, 12312),

Gene: Slimphazie_58 Start: 40534, Stop: 40800, Start Num: 26

Candidate Starts for Slimphazie_58:

(15, 40492), (Start: 26 @40534 has 85 MA's), (37, 40579), (50, 40675), (54, 40693), (75, 40747), (81, 40765), (83, 40777), (87, 40789),

Gene: SparkleGoddess_103 Start: 69278, Stop: 69643, Start Num: 30

Candidate Starts for SparkleGoddess_103:

(Start: 30 @69278 has 21 MA's), (31, 69281), (41, 69368), (64, 69488), (73, 69530), (84, 69569), (89, 69587),

Gene: Splinter_69 Start: 42588, Stop: 42908, Start Num: 34

Candidate Starts for Splinter_69:

(Start: 29 @42561 has 6 MA's), (Start: 34 @42588 has 2 MA's), (41, 42645), (45, 42678), (83, 42813), (88, 42828), (92, 42852), (94, 42861),

Gene: Spock_58 Start: 40659, Stop: 40925, Start Num: 26

Candidate Starts for Spock_58:

(15, 40617), (Start: 26 @40659 has 85 MA's), (50, 40800), (54, 40818), (75, 40872), (81, 40890), (83, 40902), (87, 40914),

Gene: Stigma_102 Start: 69286, Stop: 69651, Start Num: 30

Candidate Starts for Stigma_102:

(Start: 30 @69286 has 21 MA's), (31, 69289), (41, 69376), (64, 69496), (73, 69538), (84, 69577), (89, 69595),

Gene: Stinson_59 Start: 41036, Stop: 41302, Start Num: 26

Candidate Starts for Stinson_59:

(Start: 26 @41036 has 85 MA's), (37, 41081), (50, 41177), (56, 41201), (75, 41249), (81, 41267), (83, 41279), (87, 41291),

Gene: Sulley_58 Start: 40710, Stop: 40976, Start Num: 26

Candidate Starts for Sulley_58:

(15, 40668), (Start: 26 @40710 has 85 MA's), (37, 40755), (50, 40851), (75, 40923), (81, 40941), (83, 40953), (87, 40965),

Gene: Syleon_113 Start: 62277, Stop: 62594, Start Num: 22

Candidate Starts for Syleon_113:

(Start: 22 @62277 has 3 MA's), (32, 62298), (66, 62499),

Gene: TBond007_56 Start: 40342, Stop: 40611, Start Num: 25

Candidate Starts for TBond007_56:

(15, 40303), (Start: 25 @40342 has 9 MA's), (37, 40387), (44, 40453), (46, 40474), (87, 40600),

Gene: TZGordon_70 Start: 41449, Stop: 41796, Start Num: 29

Candidate Starts for TZGordon_70:

(Start: 29 @41449 has 6 MA's), (Start: 34 @41476 has 2 MA's), (41, 41533), (45, 41566), (83, 41701), (88, 41716), (92, 41740), (94, 41749),

Gene: Tachez_58 Start: 40503, Stop: 40769, Start Num: 26

Candidate Starts for Tachez_58:

(15, 40461), (Start: 26 @40503 has 85 MA's), (37, 40548), (50, 40644), (54, 40662), (75, 40716), (81, 40734), (83, 40746), (87, 40758),

Gene: TaiwanKao_60 Start: 40804, Stop: 41070, Start Num: 26

Candidate Starts for TaiwanKao_60:

(15, 40762), (Start: 26 @40804 has 85 MA's), (37, 40849), (50, 40945), (75, 41017), (81, 41035), (83, 41047), (87, 41059),

Gene: TinaLin_68 Start: 41133, Stop: 41456, Start Num: 29

Candidate Starts for TinaLin_68:

(1, 40866), (11, 41064), (Start: 29 @41133 has 6 MA's), (Start: 34 @41160 has 2 MA's), (40, 41217), (41, 41223), (70, 41328), (83, 41373), (92, 41412),

Gene: TingHuaYa_60 Start: 39863, Stop: 40129, Start Num: 26

Candidate Starts for TingHuaYa_60:

(Start: 26 @39863 has 85 MA's), (37, 39908), (50, 40004), (75, 40076), (81, 40094), (83, 40106), (87, 40118),

Gene: TiniBug_59 Start: 41435, Stop: 41701, Start Num: 26

Candidate Starts for TiniBug_59:

(15, 41393), (Start: 26 @41435 has 85 MA's), (37, 41480), (50, 41576), (75, 41648), (81, 41666), (83, 41678), (87, 41690),

Gene: Tiri_59 Start: 40824, Stop: 41090, Start Num: 26

Candidate Starts for Tiri_59:

(15, 40782), (Start: 26 @40824 has 85 MA's), (37, 40869), (50, 40965), (54, 40983), (70, 41022), (75, 41037), (81, 41055), (83, 41067), (87, 41079),

Gene: Topper_58 Start: 40658, Stop: 40924, Start Num: 26

Candidate Starts for Topper_58:

(15, 40616), (Start: 26 @40658 has 85 MA's), (50, 40799), (54, 40817), (75, 40871), (81, 40889), (83, 40901), (87, 40913),

Gene: Trax_110 Start: 63415, Stop: 63750, Start Num: 18

Candidate Starts for Trax_110:

(14, 63385), (Start: 18 @63415 has 2 MA's), (Start: 21 @63433 has 1 MA's), (42, 63544), (47, 63580), (66, 63661), (73, 63694), (77, 63706), (85, 63733),

Gene: TreyKay_59 Start: 40742, Stop: 41008, Start Num: 26

Candidate Starts for TreyKay_59:

(15, 40700), (Start: 26 @40742 has 85 MA's), (37, 40787), (50, 40883), (75, 40955), (81, 40973), (83, 40985), (87, 40997),

Gene: TribbleTrouble_57 Start: 40818, Stop: 41087, Start Num: 25

Candidate Starts for TribbleTrouble_57:

(Start: 25 @40818 has 9 MA's), (37, 40863), (44, 40929), (46, 40950), (87, 41076),

Gene: TruffulaTree_58 Start: 40530, Stop: 40796, Start Num: 26

Candidate Starts for TruffulaTree_58:

(15, 40488), (Start: 26 @40530 has 85 MA's), (37, 40575), (50, 40671), (54, 40689), (75, 40743), (81, 40761), (83, 40773), (87, 40785),

Gene: TunaTartare_101 Start: 69807, Stop: 70181, Start Num: 30

Candidate Starts for TunaTartare_101:

(Start: 30 @69807 has 21 MA's), (41, 69897), (63, 70011), (73, 70056), (78, 70071), (93, 70137), (95, 70173),

Gene: Twitch_58 Start: 40660, Stop: 40926, Start Num: 26

Candidate Starts for Twitch_58:

(15, 40618), (Start: 26 @40660 has 85 MA's), (37, 40705), (50, 40801), (54, 40819), (75, 40873), (81, 40891), (83, 40903), (87, 40915),

Gene: Urkel_59 Start: 41439, Stop: 41705, Start Num: 26

Candidate Starts for Urkel_59:

(15, 41397), (Start: 26 @41439 has 85 MA's), (37, 41484), (50, 41580), (75, 41652), (81, 41670), (83, 41682), (87, 41694),

Gene: Veliki_59 Start: 40516, Stop: 40782, Start Num: 26

Candidate Starts for Veliki_59:

(15, 40474), (Start: 26 @40516 has 85 MA's), (37, 40561), (50, 40657), (75, 40729), (81, 40747), (83, 40759), (87, 40771),

Gene: Vendetta_69 Start: 42588, Stop: 42908, Start Num: 34

Candidate Starts for Vendetta_69:

(Start: 29 @42561 has 6 MA's), (Start: 34 @42588 has 2 MA's), (41, 42645), (45, 42678), (83, 42813), (88, 42828), (92, 42852), (94, 42861),

Gene: Weasels2_136 Start: 80031, Stop: 80330, Start Num: 30

Candidate Starts for Weasels2_136:

(Start: 24 @80022 has 1 MA's), (Start: 30 @80031 has 21 MA's), (62, 80229),

Gene: Westy_104 Start: 70313, Stop: 70678, Start Num: 30

Candidate Starts for Westy_104:

(Start: 30 @70313 has 21 MA's), (31, 70316), (41, 70403), (64, 70523), (73, 70565), (80, 70589), (84, 70604), (89, 70622),

Gene: YoureAdopted_57 Start: 40659, Stop: 40925, Start Num: 26

Candidate Starts for YoureAdopted_57:

(15, 40617), (Start: 26 @40659 has 85 MA's), (50, 40800), (54, 40818), (75, 40872), (81, 40890), (83, 40902), (87, 40914),

Gene: Yuna_63 Start: 41860, Stop: 42126, Start Num: 25

Candidate Starts for Yuna_63:

(8, 41767), (Start: 25 @41860 has 9 MA's), (Start: 26 @41863 has 85 MA's), (37, 41908), (42, 41959), (46, 41989), (87, 42115),

Gene: Yunkel11_61 Start: 40355, Stop: 40621, Start Num: 26

Candidate Starts for Yunkel11_61:

(4, 40160), (Start: 26 @40355 has 85 MA's), (37, 40400), (50, 40496), (81, 40586), (83, 40598), (87, 40610),

Gene: Zabiza_53 Start: 36844, Stop: 37110, Start Num: 26

Candidate Starts for Zabiza_53:

(15, 36802), (Start: 26 @36844 has 85 MA's), (37, 36889), (50, 36985), (75, 37057), (81, 37075), (83, 37087), (87, 37099),

Gene: Zavala_60 Start: 40815, Stop: 41081, Start Num: 26

Candidate Starts for Zavala_60:

(15, 40773), (Start: 26 @40815 has 85 MA's), (37, 40860), (50, 40956), (75, 41028), (81, 41046), (83, 41058), (87, 41070),