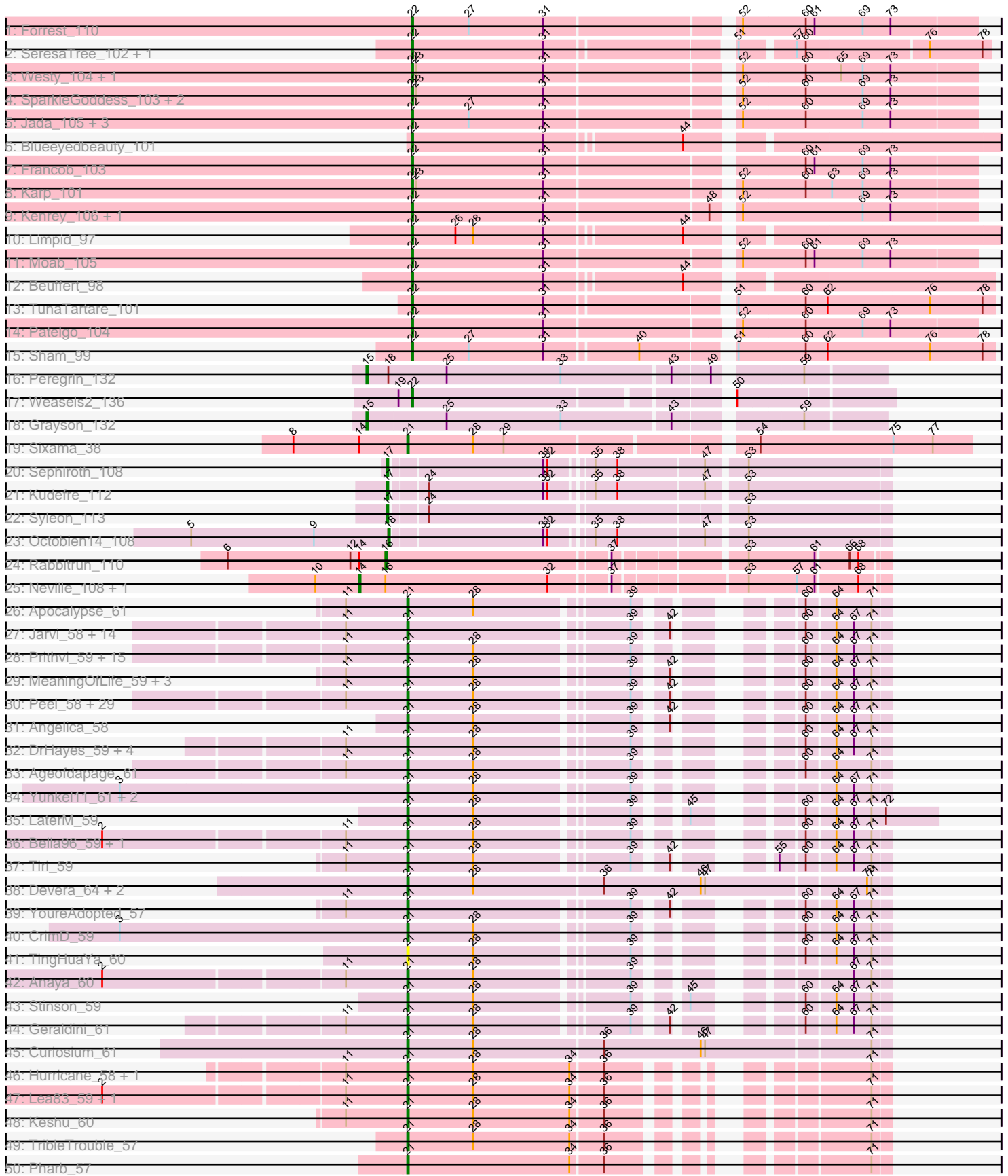
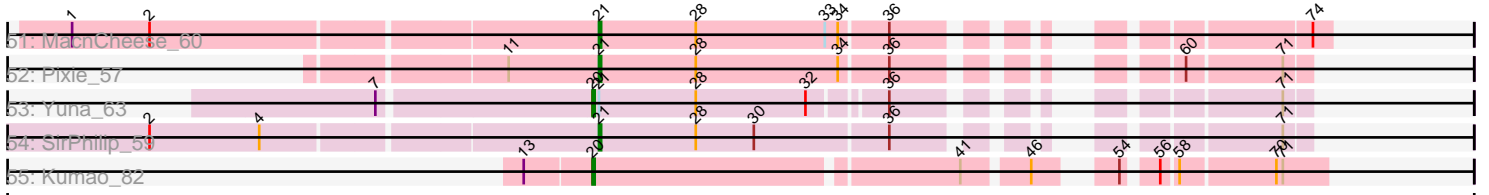


Pham 215939



Pham 215939



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 215939 Report

This analysis was run 02/22/25 on database version 588.

Pham number 215939 has 136 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Forrest_110
- Track 2 : SeresaTree_102, Faust_102
- Track 3 : Westy_104, Belfort_105
- Track 4 : SparkleGoddess_103, Comrade_102, Stigma_102
- Track 5 : Jada_105, Gilson_105, MeganTheeKilla_103, Emma1919_106
- Track 6 : Blueeyedbeauty_101
- Track 7 : Francob_103
- Track 8 : Karp_101
- Track 9 : Kenrey_106, Phredrick_104
- Track 10 : Limpid_97
- Track 11 : Moab_105
- Track 12 : Beuffert_98
- Track 13 : TunaTartare_101
- Track 14 : Patelgo_104
- Track 15 : Sham_99
- Track 16 : Peregrin_132
- Track 17 : Weasels2_136
- Track 18 : Grayson_132
- Track 19 : Sixama_38
- Track 20 : Sephiroth_108
- Track 21 : Kudefre_112
- Track 22 : Syleon_113
- Track 23 : Octobien14_108
- Track 24 : Rabbitrun_110
- Track 25 : Neville_108, Trax_110
- Track 26 : Apocalypse_61
- Track 27 : Jarvi_58, Rosmarinus_58, CREW_58, Topper_58, Dalmuri_58, BGIluviae_58, Jeckyll_58, Joy99_58, Inky_58, Lunahalos_58, Capricorn_58, CallaLilly_60, Belladonna_58, Spock_58, Llorens_58
- Track 28 : 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 29 : MeaningOfLife_59, Adonis_58, Deby_58, Jayhawk_59
- Track 30 : Peel_58, TruffulaTree_58, Boiiii_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 31 : Angelica_58
- Track 32 : DrHayes_59, TiniBug_59, Urkel_59, LastHope_61, SamuelLPlaqson_59
- Track 33 : Ageofdapage_61
- Track 34 : Yunkel11_61, Guanica15_61, Efra2_62
- Track 35 : LaterM_59
- Track 36 : Bella96_59, Murucutumbu_59
- Track 37 : Tiri_59
- Track 38 : Devera_64, Dole_62, Illumine_62
- Track 39 : YoureAdopted_57
- Track 40 : CrimD_59
- Track 41 : TingHuaYa_60
- Track 42 : Anaya_60
- Track 43 : Stinson_59
- Track 44 : Geraldini_61
- Track 45 : Curiosium_61
- Track 46 : Hurricane_58, TBond007_56
- Track 47 : Lea83_59, ShedlockHolmes_59
- Track 48 : Keshu_60
- Track 49 : TribbleTrouble_57
- Track 50 : Pharb_57
- Track 51 : MacnCheese_60
- Track 52 : Pixie_57
- Track 53 : Yuna_63
- Track 54 : SirPhilip_59
- Track 55 : 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 21, it was called in 94 of the 127 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, Boiiii_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, Hurricane_58, Hyperbowlee_58, Illumine_62, Inky_58, JAWS_58, Jarvi_58, Jayhawk_59, Jeckyll_58, Joy99_58, Keshu_60, LastHope_61, LaterM_59, Lea83_59, LindNT_57, Llorens_58, Lunahalos_58, MacKat_53, MacnCheese_60, MeaningOfLife_59, Megsy_60, Murucutumbu_59, Mynx_59, Padfoot_58, Padpat_60, Peel_58, Pharb_57, Piatt_58, Pixie_57, Pokerus_57, Prithvi_59, QuincyRose_57, Ramen_59, Rapunzel97_59, Rosmarinus_58, SamuelLPlaqson_59, ShedlockHolmes_59, ShiaSurprise_59, SirPhilip_59, Sixama_38, Slimphazie_58, Spock_58, Stinson_59, Sulley_58, TBond007_56, Tachez_58, TaiwanKao_60, TingHuaYa_60, TiniBug_59, Tiri_59, Topper_58, TreyKay_59, TribbleTrouble_57,

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:

- Belfort_105, Beuffert_98, Blueeyedbeauty_101, Comrade_102, Emma1919_106, Faust_102, Forrest_110, Francob_103, Gilson_105, Grayson_132, Jada_105, Karp_101, Kenrey_106, Kudfre_112, Kumao_82, Limpid_97, MeganTheeKilla_103, Moab_105, Neville_108, Octobien14_108, Patelgo_104, Peregrin_132, Phredrick_104, Rabbitrun_110, Sephiroth_108, SeresaTree_102, Sham_99, SparkleGoddess_103, Stigma_102, Syleon_113, Trax_110, TunaTartare_101, Weasels2_136, Westy_104,

Summary by start number:

Start 14:

- Found in 4 of 136 (2.9%) of genes in pham
- Manual Annotations of this start: 2 of 127
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Neville_108 (DU2), Trax_110 (DU2),

Start 15:

- Found in 2 of 136 (1.5%) of genes in pham
- Manual Annotations of this start: 2 of 127
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Grayson_132 (CB), Peregrin_132 (CB),

Start 16:

- Found in 3 of 136 (2.2%) of genes in pham
- Manual Annotations of this start: 1 of 127
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Rabbitrun_110 (DU2),

Start 17:

- Found in 3 of 136 (2.2%) of genes in pham
- Manual Annotations of this start: 3 of 127
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kudfre_112 (DU1), Sephiroth_108 (DU1), Syleon_113 (DU1),

Start 18:

- Found in 2 of 136 (1.5%) of genes in pham
- Manual Annotations of this start: 1 of 127
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Octobien14_108 (DU1),

Start 20:

- Found in 2 of 136 (1.5%) of genes in pham
- Manual Annotations of this start: 2 of 127
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kumao_82 (singleton), Yuna_63 (K6),

Start 21:

- Found in 102 of 136 (75.0%) of genes in pham
- Manual Annotations of this start: 94 of 127
- Called 99.0% of time when present
- Phage (with cluster) where this start called: ActinUp_58 (K1), Adephagia_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), Hurricane_58 (K3), Hyperbowlee_58 (K1), Illumine_62 (K1), Inky_58 (K1), JAWS_58 (K1), Jarvi_58 (K1), Jayhawk_59 (K1), Jeckyll_58 (K1), Joy99_58 (K1), Keshu_60 (K3), LastHope_61 (K1), LaterM_59 (K1), Lea83_59 (K3), LindNT_57 (K1), Llorens_58 (K1), Lunahalos_58 (K1), MacKat_53 (K1), MacnCheese_60 (K3), MeaningOfLife_59 (K1), Megsy_60 (K1), Murucutumbu_59 (K1), Mynx_59 (K1), Padfoot_58 (K1), Padpat_60 (K1), Peel_58 (K1), Pharb_57 (K3), Piatt_58 (K1), Pixie_57 (K3), Pokerus_57 (K1), Prithvi_59 (K1), QuincyRose_57 (K1), Ramen_59 (K1), Rapunzel97_59 (K1), Rosmarinus_58 (K1), SamuelLPlaqson_59 (K1), ShedlockHolmes_59 (K3), ShiaSurprise_59 (K1), SirPhilip_59 (K6), Sixama_38 (DS), Slimphazie_58 (K1), Spock_58 (K1), Stinson_59 (K1), Sulley_58 (K1), TBond007_56 (K3), Tachez_58 (K1), TaiwanKao_60 (K1), TingHuaYa_60 (K1), TiniBug_59 (K1), Tiri_59 (K1), Topper_58 (K1), TreyKay_59 (K1), TribbleTrouble_57 (K3), 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 22:

- Found in 24 of 136 (17.6%) of genes in pham
- Manual Annotations of this start: 22 of 127
- 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), Forrest_110 (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),

Summary by clusters:

There are 9 clusters represented in this pham: singleton, CB, K3, K1, BK1, DU1, DU2, DS, K6,

Info for manual annotations of cluster BK1:

- Start number 22 was manually annotated 21 times for cluster BK1.

Info for manual annotations of cluster CB:

- Start number 15 was manually annotated 2 times for cluster CB.
- Start number 22 was manually annotated 1 time for cluster CB.

Info for manual annotations of cluster DS:

- Start number 21 was manually annotated 1 time for cluster DS.

Info for manual annotations of cluster DU1:

- Start number 17 was manually annotated 3 times for cluster DU1.
- Start number 18 was manually annotated 1 time for cluster DU1.

Info for manual annotations of cluster DU2:

- Start number 14 was manually annotated 2 times for cluster DU2.
- Start number 16 was manually annotated 1 time for cluster DU2.

Info for manual annotations of cluster K1:

- Start number 21 was manually annotated 84 times for cluster K1.

Info for manual annotations of cluster K3:

- Start number 21 was manually annotated 8 times for cluster K3.

Info for manual annotations of cluster K6:

- Start number 20 was manually annotated 1 time for cluster K6.
- Start number 21 was manually annotated 1 time for cluster K6.

Gene Information:

Gene: ActinUp_58 Start: 40539, Stop: 40805, Start Num: 21

Candidate Starts for ActinUp_58:

(11, 40497), (Start: 21 @40539 has 94 MA's), (28, 40584), (39, 40680), (60, 40752), (64, 40770), (67, 40782), (71, 40794),

Gene: Adephagia_58 Start: 40540, Stop: 40806, Start Num: 21

Candidate Starts for Adephagia_58:

(11, 40498), (Start: 21 @40540 has 94 MA's), (28, 40585), (39, 40681), (42, 40699), (60, 40753), (64, 40771), (67, 40783), (71, 40795),

Gene: Adonis_58 Start: 40787, Stop: 41053, Start Num: 21

Candidate Starts for Adonis_58:

(11, 40745), (Start: 21 @40787 has 94 MA's), (28, 40832), (39, 40928), (42, 40946), (60, 41000), (64, 41018), (67, 41030), (71, 41042),

Gene: Ageofdapage_61 Start: 41528, Stop: 41794, Start Num: 21

Candidate Starts for Ageofdapage_61:

(11, 41486), (Start: 21 @41528 has 94 MA's), (28, 41573), (39, 41669), (60, 41741), (64, 41759), (71, 41783),

Gene: AlishaPH_58 Start: 40801, Stop: 41067, Start Num: 21

Candidate Starts for AlishaPH_58:

(11, 40759), (Start: 21 @40801 has 94 MA's), (28, 40846), (39, 40942), (42, 40960), (60, 41014), (64, 41032), (67, 41044), (71, 41056),

Gene: Anaya_60 Start: 41056, Stop: 41322, Start Num: 21

Candidate Starts for Anaya_60:

(2, 40858), (11, 41014), (Start: 21 @41056 has 94 MA's), (28, 41101), (39, 41197), (67, 41299), (71, 41311),

Gene: Angelica_58 Start: 40695, Stop: 40961, Start Num: 21

Candidate Starts for Angelica_58:

(Start: 21 @40695 has 94 MA's), (28, 40740), (39, 40836), (42, 40854), (60, 40908), (64, 40926), (67, 40938), (71, 40950),

Gene: Apocalypse_61 Start: 41464, Stop: 41730, Start Num: 21

Candidate Starts for Apocalypse_61:

(11, 41422), (Start: 21 @41464 has 94 MA's), (28, 41509), (39, 41605), (60, 41677), (64, 41695), (71, 41719),

Gene: Asayake_58 Start: 40855, Stop: 41121, Start Num: 21

Candidate Starts for Asayake_58:

(11, 40813), (Start: 21 @40855 has 94 MA's), (28, 40900), (39, 40996), (42, 41014), (60, 41068), (64, 41086), (67, 41098), (71, 41110),

Gene: Atiba_59 Start: 40503, Stop: 40769, Start Num: 21

Candidate Starts for Atiba_59:

(11, 40461), (Start: 21 @40503 has 94 MA's), (28, 40548), (39, 40644), (42, 40662), (60, 40716), (64, 40734), (67, 40746), (71, 40758),

Gene: BEEST_58 Start: 40855, Stop: 41121, Start Num: 21

Candidate Starts for BEEST_58:

(11, 40813), (Start: 21 @40855 has 94 MA's), (28, 40900), (39, 40996), (42, 41014), (60, 41068), (64, 41086), (67, 41098), (71, 41110),

Gene: BGlluviae_58 Start: 40658, Stop: 40924, Start Num: 21

Candidate Starts for BGlluviae_58:

(11, 40616), (Start: 21 @40658 has 94 MA's), (39, 40799), (42, 40817), (60, 40871), (64, 40889), (67, 40901), (71, 40913),

Gene: BaghaKamala_57 Start: 39896, Stop: 40162, Start Num: 21

Candidate Starts for BaghaKamala_57:

(11, 39854), (Start: 21 @39896 has 94 MA's), (28, 39941), (39, 40037), (42, 40055), (60, 40109), (64, 40127), (67, 40139), (71, 40151),

Gene: BarrelRoll_58 Start: 40519, Stop: 40785, Start Num: 21

Candidate Starts for BarrelRoll_58:

(11, 40477), (Start: 21 @40519 has 94 MA's), (28, 40564), (39, 40660), (42, 40678), (60, 40732), (64, 40750), (67, 40762), (71, 40774),

Gene: Beezoo_60 Start: 41503, Stop: 41769, Start Num: 21

Candidate Starts for Beezoo_60:

(11, 41461), (Start: 21 @41503 has 94 MA's), (28, 41548), (39, 41644), (42, 41662), (60, 41716), (64, 41734), (67, 41746), (71, 41758),

Gene: Belfort_105 Start: 69661, Stop: 70026, Start Num: 22

Candidate Starts for Belfort_105:

(Start: 22 @69661 has 22 MA's), (23, 69664), (31, 69751), (52, 69871), (60, 69913), (65, 69937), (69, 69952), (73, 69970),

Gene: Bella96_59 Start: 41284, Stop: 41550, Start Num: 21

Candidate Starts for Bella96_59:

(2, 41086), (11, 41242), (Start: 21 @41284 has 94 MA's), (28, 41329), (39, 41425), (60, 41497), (64, 41515), (67, 41527), (71, 41539),

Gene: Belladonna_58 Start: 40658, Stop: 40924, Start Num: 21

Candidate Starts for Belladonna_58:

(11, 40616), (Start: 21 @40658 has 94 MA's), (39, 40799), (42, 40817), (60, 40871), (64, 40889), (67, 40901), (71, 40913),

Gene: Bern_59 Start: 39486, Stop: 39752, Start Num: 21

Candidate Starts for Bern_59:

(11, 39444), (Start: 21 @39486 has 94 MA's), (28, 39531), (39, 39627), (42, 39645), (60, 39699), (64, 39717), (67, 39729), (71, 39741),

Gene: Beuffert_98 Start: 67977, Stop: 68345, Start Num: 22

Candidate Starts for Beuffert_98:

(Start: 22 @67977 has 22 MA's), (31, 68067), (44, 68154),

Gene: Blizzard_58 Start: 40855, Stop: 41121, Start Num: 21

Candidate Starts for Blizzard_58:

(11, 40813), (Start: 21 @40855 has 94 MA's), (28, 40900), (39, 40996), (42, 41014), (60, 41068), (64, 41086), (67, 41098), (71, 41110),

Gene: Blueeyedbeauty_101 Start: 67379, Stop: 67750, Start Num: 22

Candidate Starts for Blueeyedbeauty_101:

(Start: 22 @67379 has 22 MA's), (31, 67469), (44, 67556),

Gene: Boiiii_58 Start: 40857, Stop: 41123, Start Num: 21

Candidate Starts for Boiiii_58:

(11, 40815), (Start: 21 @40857 has 94 MA's), (28, 40902), (39, 40998), (42, 41016), (60, 41070), (64, 41088), (67, 41100), (71, 41112),

Gene: CREW_58 Start: 40658, Stop: 40924, Start Num: 21

Candidate Starts for CREW_58:

(11, 40616), (Start: 21 @40658 has 94 MA's), (39, 40799), (42, 40817), (60, 40871), (64, 40889), (67, 40901), (71, 40913),

Gene: CallaLilly_60 Start: 40581, Stop: 40847, Start Num: 21

Candidate Starts for CallaLilly_60:

(11, 40539), (Start: 21 @40581 has 94 MA's), (39, 40722), (42, 40740), (60, 40794), (64, 40812), (67, 40824), (71, 40836),

Gene: Capricorn_58 Start: 40658, Stop: 40924, Start Num: 21

Candidate Starts for Capricorn_58:

(11, 40616), (Start: 21 @40658 has 94 MA's), (39, 40799), (42, 40817), (60, 40871), (64, 40889), (67, 40901), (71, 40913),

Gene: CaseJules_60 Start: 40855, Stop: 41121, Start Num: 21

Candidate Starts for CaseJules_60:

(11, 40813), (Start: 21 @40855 has 94 MA's), (28, 40900), (39, 40996), (42, 41014), (60, 41068), (64, 41086), (67, 41098), (71, 41110),

Gene: CheetoDust_57 Start: 39940, Stop: 40206, Start Num: 21

Candidate Starts for CheetoDust_57:

(11, 39898), (Start: 21 @39940 has 94 MA's), (28, 39985), (39, 40081), (42, 40099), (60, 40153), (64, 40171), (67, 40183), (71, 40195),

Gene: Clipper_62 Start: 41118, Stop: 41384, Start Num: 21

Candidate Starts for Clipper_62:

(11, 41076), (Start: 21 @41118 has 94 MA's), (28, 41163), (39, 41259), (60, 41331), (64, 41349), (67, 41361), (71, 41373),

Gene: Comrade_102 Start: 68978, Stop: 69343, Start Num: 22

Candidate Starts for Comrade_102:

(Start: 22 @68978 has 22 MA's), (23, 68981), (31, 69068), (52, 69188), (60, 69230), (69, 69269), (73, 69287),

Gene: CrimD_59 Start: 41076, Stop: 41342, Start Num: 21

Candidate Starts for CrimD_59:

(3, 40881), (Start: 21 @41076 has 94 MA's), (28, 41121), (39, 41217), (60, 41289), (64, 41307), (67, 41319), (71, 41331),

Gene: Curiosium_61 Start: 39723, Stop: 40043, Start Num: 21

Candidate Starts for Curiosium_61:

(Start: 21 @39723 has 94 MA's), (28, 39768), (36, 39855), (46, 39921), (47, 39924), (71, 40032),

Gene: Dalmuri_58 Start: 40658, Stop: 40924, Start Num: 21

Candidate Starts for Dalmuri_58:

(11, 40616), (Start: 21 @40658 has 94 MA's), (39, 40799), (42, 40817), (60, 40871), (64, 40889), (67, 40901), (71, 40913),

Gene: Deby_58 Start: 40717, Stop: 40983, Start Num: 21

Candidate Starts for Deby_58:

(11, 40675), (Start: 21 @40717 has 94 MA's), (28, 40762), (39, 40858), (42, 40876), (60, 40930), (64, 40948), (67, 40960), (71, 40972),

Gene: Devera_64 Start: 41616, Stop: 41936, Start Num: 21

Candidate Starts for Devera_64:

(Start: 21 @41616 has 94 MA's), (28, 41661), (36, 41748), (46, 41814), (47, 41817), (70, 41922), (71, 41925),

Gene: Dole_62 Start: 41619, Stop: 41939, Start Num: 21

Candidate Starts for Dole_62:

(Start: 21 @41619 has 94 MA's), (28, 41664), (36, 41751), (46, 41817), (47, 41820), (70, 41925), (71, 41928),

Gene: DrHayes_59 Start: 41439, Stop: 41705, Start Num: 21

Candidate Starts for DrHayes_59:

(11, 41397), (Start: 21 @41439 has 94 MA's), (28, 41484), (39, 41580), (60, 41652), (64, 41670), (67, 41682), (71, 41694),

Gene: Durfee_58 Start: 40855, Stop: 41121, Start Num: 21

Candidate Starts for Durfee_58:

(11, 40813), (Start: 21 @40855 has 94 MA's), (28, 40900), (39, 40996), (42, 41014), (60, 41068), (64, 41086), (67, 41098), (71, 41110),

Gene: Efra2_62 Start: 40615, Stop: 40881, Start Num: 21

Candidate Starts for Efra2_62:

(3, 40420), (Start: 21 @40615 has 94 MA's), (28, 40660), (39, 40756), (64, 40846), (67, 40858), (71, 40870),

Gene: Emerson_59 Start: 40536, Stop: 40802, Start Num: 21

Candidate Starts for Emerson_59:

(11, 40494), (Start: 21 @40536 has 94 MA's), (28, 40581), (39, 40677), (42, 40695), (60, 40749), (64, 40767), (67, 40779), (71, 40791),

Gene: Emma1919_106 Start: 68431, Stop: 68796, Start Num: 22

Candidate Starts for Emma1919_106:

(Start: 22 @68431 has 22 MA's), (27, 68470), (31, 68521), (52, 68641), (60, 68683), (69, 68722), (73, 68740),

Gene: Faust_102 Start: 69072, Stop: 69434, Start Num: 22

Candidate Starts for Faust_102:

(Start: 22 @69072 has 22 MA's), (31, 69162), (51, 69276), (57, 69309), (60, 69315), (76, 69393), (78, 69429),

Gene: Forrest_110 Start: 70740, Stop: 71105, Start Num: 22

Candidate Starts for Forrest_110:

(Start: 22 @70740 has 22 MA's), (27, 70779), (31, 70830), (52, 70950), (60, 70992), (61, 70998), (69, 71031), (73, 71049),

Gene: Francob_103 Start: 68601, Stop: 68966, Start Num: 22

Candidate Starts for Francob_103:

(Start: 22 @68601 has 22 MA's), (31, 68691), (60, 68853), (61, 68859), (69, 68892), (73, 68910),

Gene: Ganymede_59 Start: 40919, Stop: 41185, Start Num: 21

Candidate Starts for Ganymede_59:

(11, 40877), (Start: 21 @40919 has 94 MA's), (28, 40964), (39, 41060), (42, 41078), (60, 41132), (64, 41150), (67, 41162), (71, 41174),

Gene: Geraldini_61 Start: 41585, Stop: 41851, Start Num: 21

Candidate Starts for Geraldini_61:

(11, 41543), (Start: 21 @41585 has 94 MA's), (28, 41630), (39, 41726), (42, 41744), (60, 41798), (64, 41816), (67, 41828), (71, 41840),

Gene: Gilson_105 Start: 68393, Stop: 68758, Start Num: 22

Candidate Starts for Gilson_105:

(Start: 22 @68393 has 22 MA's), (27, 68432), (31, 68483), (52, 68603), (60, 68645), (69, 68684), (73, 68702),

Gene: Grayson_132 Start: 78512, Stop: 78844, Start Num: 15

Candidate Starts for Grayson_132:

(Start: 15 @78512 has 2 MA's), (25, 78566), (33, 78644), (43, 78716), (59, 78791),

Gene: Guanica15_61 Start: 40356, Stop: 40622, Start Num: 21

Candidate Starts for Guanica15_61:

(3, 40161), (Start: 21 @40356 has 94 MA's), (28, 40401), (39, 40497), (64, 40587), (67, 40599), (71, 40611),

Gene: HedwigODU_58 Start: 40539, Stop: 40805, Start Num: 21

Candidate Starts for HedwigODU_58:

(11, 40497), (Start: 21 @40539 has 94 MA's), (28, 40584), (39, 40680), (60, 40752), (64, 40770), (67, 40782), (71, 40794),

Gene: Homura_58 Start: 40658, Stop: 40924, Start Num: 21

Candidate Starts for Homura_58:

(11, 40616), (Start: 21 @40658 has 94 MA's), (28, 40703), (39, 40799), (42, 40817), (60, 40871), (64, 40889), (67, 40901), (71, 40913),

Gene: Hurricane_58 Start: 40805, Stop: 41074, Start Num: 21

Candidate Starts for Hurricane_58:

(11, 40766), (Start: 21 @40805 has 94 MA's), (28, 40850), (34, 40916), (36, 40937), (71, 41063),

Gene: Hyperbowlee_58 Start: 40855, Stop: 41121, Start Num: 21

Candidate Starts for Hyperbowlee_58:

(11, 40813), (Start: 21 @40855 has 94 MA's), (28, 40900), (39, 40996), (42, 41014), (60, 41068), (64, 41086), (67, 41098), (71, 41110),

Gene: Illumine_62 Start: 41618, Stop: 41938, Start Num: 21

Candidate Starts for Illumine_62:

(Start: 21 @41618 has 94 MA's), (28, 41663), (36, 41750), (46, 41816), (47, 41819), (70, 41924), (71, 41927),

Gene: Inky_58 Start: 40658, Stop: 40924, Start Num: 21

Candidate Starts for Inky_58:

(11, 40616), (Start: 21 @40658 has 94 MA's), (39, 40799), (42, 40817), (60, 40871), (64, 40889), (67, 40901), (71, 40913),

Gene: JAWS_58 Start: 40525, Stop: 40791, Start Num: 21

Candidate Starts for JAWS_58:

(11, 40483), (Start: 21 @40525 has 94 MA's), (28, 40570), (39, 40666), (60, 40738), (64, 40756), (67, 40768), (71, 40780),

Gene: Jada_105 Start: 68906, Stop: 69271, Start Num: 22

Candidate Starts for Jada_105:

(Start: 22 @68906 has 22 MA's), (27, 68945), (31, 68996), (52, 69116), (60, 69158), (69, 69197), (73, 69215),

Gene: Jarvi_58 Start: 40658, Stop: 40924, Start Num: 21

Candidate Starts for Jarvi_58:

(11, 40616), (Start: 21 @40658 has 94 MA's), (39, 40799), (42, 40817), (60, 40871), (64, 40889), (67, 40901), (71, 40913),

Gene: Jayhawk_59 Start: 40534, Stop: 40800, Start Num: 21

Candidate Starts for Jayhawk_59:

(11, 40492), (Start: 21 @40534 has 94 MA's), (28, 40579), (39, 40675), (42, 40693), (60, 40747), (64, 40765), (67, 40777), (71, 40789),

Gene: Jeckyll_58 Start: 40658, Stop: 40924, Start Num: 21

Candidate Starts for Jeckyll_58:

(11, 40616), (Start: 21 @40658 has 94 MA's), (39, 40799), (42, 40817), (60, 40871), (64, 40889), (67, 40901), (71, 40913),

Gene: Joy99_58 Start: 40587, Stop: 40853, Start Num: 21

Candidate Starts for Joy99_58:

(11, 40545), (Start: 21 @40587 has 94 MA's), (39, 40728), (42, 40746), (60, 40800), (64, 40818), (67, 40830), (71, 40842),

Gene: Karp_101 Start: 68949, Stop: 69314, Start Num: 22

Candidate Starts for Karp_101:

(Start: 22 @68949 has 22 MA's), (23, 68952), (31, 69039), (52, 69159), (60, 69201), (63, 69219), (69, 69240), (73, 69258),

Gene: Kenrey_106 Start: 68621, Stop: 68986, Start Num: 22

Candidate Starts for Kenrey_106:

(Start: 22 @68621 has 22 MA's), (31, 68711), (48, 68819), (52, 68831), (69, 68912), (73, 68930),

Gene: Keshu_60 Start: 40903, Stop: 41172, Start Num: 21

Candidate Starts for Keshu_60:

(11, 40864), (Start: 21 @40903 has 94 MA's), (28, 40948), (34, 41014), (36, 41035), (71, 41161),

Gene: Kudrefre_112 Start: 61740, Stop: 62057, Start Num: 17

Candidate Starts for Kudrefre_112:

(Start: 17 @61740 has 3 MA's), (24, 61761), (31, 61839), (32, 61842), (35, 61866), (38, 61881), (47, 61938), (53, 61962),

Gene: Kumao_82 Start: 53900, Stop: 54196, Start Num: 20

Candidate Starts for Kumao_82:

(13, 53870), (Start: 20 @53900 has 2 MA's), (41, 54062), (46, 54089), (54, 54113), (56, 54125), (58, 54131), (70, 54173), (71, 54176),

Gene: LastHope_61 Start: 39701, Stop: 39967, Start Num: 21

Candidate Starts for LastHope_61:

(11, 39659), (Start: 21 @39701 has 94 MA's), (28, 39746), (39, 39842), (60, 39914), (64, 39932), (67, 39944), (71, 39956),

Gene: LaterM_59 Start: 41420, Stop: 41719, Start Num: 21

Candidate Starts for LaterM_59:

(Start: 21 @41420 has 94 MA's), (28, 41465), (39, 41561), (45, 41585), (60, 41633), (64, 41651), (67, 41663), (71, 41675), (72, 41684),

Gene: Lea83_59 Start: 40858, Stop: 41127, Start Num: 21

Candidate Starts for Lea83_59:

(2, 40663), (11, 40819), (Start: 21 @40858 has 94 MA's), (28, 40903), (34, 40969), (36, 40990), (71, 41116),

Gene: Limpid_97 Start: 67416, Stop: 67787, Start Num: 22

Candidate Starts for Limpid_97:

(Start: 22 @67416 has 22 MA's), (26, 67446), (28, 67458), (31, 67506), (44, 67593),

Gene: LindNT_57 Start: 40742, Stop: 41008, Start Num: 21

Candidate Starts for LindNT_57:

(11, 40700), (Start: 21 @40742 has 94 MA's), (28, 40787), (39, 40883), (60, 40955), (64, 40973), (67, 40985), (71, 40997),

Gene: Llorens_58 Start: 40658, Stop: 40924, Start Num: 21

Candidate Starts for Llorens_58:

(11, 40616), (Start: 21 @40658 has 94 MA's), (39, 40799), (42, 40817), (60, 40871), (64, 40889), (67, 40901), (71, 40913),

Gene: Lunahalos_58 Start: 40658, Stop: 40924, Start Num: 21

Candidate Starts for Lunahalos_58:

(11, 40616), (Start: 21 @40658 has 94 MA's), (39, 40799), (42, 40817), (60, 40871), (64, 40889), (67, 40901), (71, 40913),

Gene: MacKat_53 Start: 36002, Stop: 36268, Start Num: 21

Candidate Starts for MacKat_53:

(11, 35960), (Start: 21 @36002 has 94 MA's), (28, 36047), (39, 36143), (60, 36215), (64, 36233), (67, 36245), (71, 36257),

Gene: MacnCheese_60 Start: 41385, Stop: 41663, Start Num: 21

Candidate Starts for MacnCheese_60:

(1, 41154), (2, 41190), (Start: 21 @41385 has 94 MA's), (28, 41430), (33, 41490), (34, 41496), (36, 41517), (74, 41655),

Gene: MeaningOfLife_59 Start: 41413, Stop: 41679, Start Num: 21

Candidate Starts for MeaningOfLife_59:

(11, 41371), (Start: 21 @41413 has 94 MA's), (28, 41458), (39, 41554), (42, 41572), (60, 41626), (64, 41644), (67, 41656), (71, 41668),

Gene: MeganTheeKilla_103 Start: 67750, Stop: 68115, Start Num: 22

Candidate Starts for MeganTheeKilla_103:

(Start: 22 @67750 has 22 MA's), (27, 67789), (31, 67840), (52, 67960), (60, 68002), (69, 68041), (73, 68059),

Gene: Megsy_60 Start: 40807, Stop: 41073, Start Num: 21

Candidate Starts for Megsy_60:

(11, 40765), (Start: 21 @40807 has 94 MA's), (28, 40852), (39, 40948), (60, 41020), (64, 41038), (67, 41050), (71, 41062),

Gene: Moab_105 Start: 70915, Stop: 71280, Start Num: 22

Candidate Starts for Moab_105:

(Start: 22 @70915 has 22 MA's), (31, 71005), (52, 71125), (60, 71167), (61, 71173), (69, 71206), (73, 71224),

Gene: Murucutumbu_59 Start: 41513, Stop: 41779, Start Num: 21

Candidate Starts for Murucutumbu_59:

(2, 41315), (11, 41471), (Start: 21 @41513 has 94 MA's), (28, 41558), (39, 41654), (60, 41726), (64, 41744), (67, 41756), (71, 41768),

Gene: Mynx_59 Start: 40855, Stop: 41121, Start Num: 21

Candidate Starts for Mynx_59:

(11, 40813), (Start: 21 @40855 has 94 MA's), (28, 40900), (39, 40996), (60, 41068), (64, 41086), (67, 41098), (71, 41110),

Gene: Neville_108 Start: 62420, Stop: 62755, Start Num: 14

Candidate Starts for Neville_108:

(10, 62390), (Start: 14 @62420 has 2 MA's), (Start: 16 @62438 has 1 MA's), (32, 62549), (37, 62585), (53, 62666), (57, 62699), (61, 62711), (68, 62738),

Gene: Octobien14_108 Start: 60532, Stop: 60849, Start Num: 18

Candidate Starts for Octobien14_108:

(5, 60397), (9, 60481), (Start: 18 @60532 has 1 MA's), (31, 60631), (32, 60634), (35, 60658), (38, 60673), (47, 60730), (53, 60754),

Gene: Padfoot_58 Start: 40855, Stop: 41121, Start Num: 21

Candidate Starts for Padfoot_58:

(11, 40813), (Start: 21 @40855 has 94 MA's), (28, 40900), (39, 40996), (42, 41014), (60, 41068), (64, 41086), (67, 41098), (71, 41110),

Gene: Padpat_60 Start: 40536, Stop: 40802, Start Num: 21

Candidate Starts for Padpat_60:

(11, 40494), (Start: 21 @40536 has 94 MA's), (28, 40581), (39, 40677), (42, 40695), (60, 40749), (64, 40767), (67, 40779), (71, 40791),

Gene: Patelgo_104 Start: 70001, Stop: 70366, Start Num: 22

Candidate Starts for Patelgo_104:

(Start: 22 @70001 has 22 MA's), (31, 70091), (52, 70211), (60, 70253), (69, 70292), (73, 70310),

Gene: Peel_58 Start: 40660, Stop: 40926, Start Num: 21

Candidate Starts for Peel_58:

(11, 40618), (Start: 21 @40660 has 94 MA's), (28, 40705), (39, 40801), (42, 40819), (60, 40873), (64, 40891), (67, 40903), (71, 40915),

Gene: Peregrin_132 Start: 78720, Stop: 79052, Start Num: 15

Candidate Starts for Peregrin_132:

(Start: 15 @78720 has 2 MA's), (Start: 18 @78735 has 1 MA's), (25, 78774), (33, 78852), (43, 78924), (49, 78948), (59, 78999),

Gene: Pharb_57 Start: 40007, Stop: 40276, Start Num: 21

Candidate Starts for Pharb_57:

(Start: 21 @40007 has 94 MA's), (34, 40118), (36, 40139), (71, 40265),

Gene: Phredrick_104 Start: 67726, Stop: 68091, Start Num: 22

Candidate Starts for Phredrick_104:

(Start: 22 @67726 has 22 MA's), (31, 67816), (48, 67924), (52, 67936), (69, 68017), (73, 68035),

Gene: Piatt_58 Start: 40855, Stop: 41121, Start Num: 21

Candidate Starts for Piatt_58:

(11, 40813), (Start: 21 @40855 has 94 MA's), (28, 40900), (39, 40996), (42, 41014), (60, 41068), (64, 41086), (67, 41098), (71, 41110),

Gene: Pixie_57 Start: 40343, Stop: 40612, Start Num: 21

Candidate Starts for Pixie_57:

(11, 40304), (Start: 21 @40343 has 94 MA's), (28, 40388), (34, 40454), (36, 40475), (60, 40559), (71, 40601),

Gene: Pokerus_57 Start: 40585, Stop: 40851, Start Num: 21

Candidate Starts for Pokerus_57:

(11, 40543), (Start: 21 @40585 has 94 MA's), (28, 40630), (39, 40726), (42, 40744), (60, 40798), (64, 40816), (67, 40828), (71, 40840),

Gene: Prithvi_59 Start: 40742, Stop: 41008, Start Num: 21

Candidate Starts for Prithvi_59:

(11, 40700), (Start: 21 @40742 has 94 MA's), (28, 40787), (39, 40883), (60, 40955), (64, 40973), (67, 40985), (71, 40997),

Gene: QuincyRose_57 Start: 40919, Stop: 41185, Start Num: 21

Candidate Starts for QuincyRose_57:

(11, 40877), (Start: 21 @40919 has 94 MA's), (28, 40964), (39, 41060), (42, 41078), (60, 41132), (64, 41150), (67, 41162), (71, 41174),

Gene: Rabbitrun_110 Start: 63382, Stop: 63696, Start Num: 16

Candidate Starts for Rabbitrun_110:

(6, 63274), (12, 63358), (Start: 14 @63364 has 2 MA's), (Start: 16 @63382 has 1 MA's), (37, 63529), (53, 63607), (61, 63652), (66, 63673), (68, 63679),

Gene: Ramen_59 Start: 40541, Stop: 40807, Start Num: 21

Candidate Starts for Ramen_59:

(11, 40499), (Start: 21 @40541 has 94 MA's), (28, 40586), (39, 40682), (60, 40754), (64, 40772), (67, 40784), (71, 40796),

Gene: Rapunzel97_59 Start: 40534, Stop: 40800, Start Num: 21

Candidate Starts for Rapunzel97_59:

(11, 40492), (Start: 21 @40534 has 94 MA's), (28, 40579), (39, 40675), (42, 40693), (60, 40747), (64, 40765), (67, 40777), (71, 40789),

Gene: Rosmarinus_58 Start: 40646, Stop: 40912, Start Num: 21

Candidate Starts for Rosmarinus_58:

(11, 40604), (Start: 21 @40646 has 94 MA's), (39, 40787), (42, 40805), (60, 40859), (64, 40877), (67, 40889), (71, 40901),

Gene: SamuelLPlaqson_59 Start: 41439, Stop: 41705, Start Num: 21

Candidate Starts for SamuelLPlaqson_59:

(11, 41397), (Start: 21 @41439 has 94 MA's), (28, 41484), (39, 41580), (60, 41652), (64, 41670), (67, 41682), (71, 41694),

Gene: Sephiroth_108 Start: 61495, Stop: 61812, Start Num: 17

Candidate Starts for Sephiroth_108:

(Start: 17 @61495 has 3 MA's), (31, 61594), (32, 61597), (35, 61621), (38, 61636), (47, 61693), (53, 61717),

Gene: SeresaTree_102 Start: 68454, Stop: 68816, Start Num: 22

Candidate Starts for SeresaTree_102:

(Start: 22 @68454 has 22 MA's), (31, 68544), (51, 68658), (57, 68691), (60, 68697), (76, 68775), (78, 68811),

Gene: Sham_99 Start: 68644, Stop: 69018, Start Num: 22

Candidate Starts for Sham_99:

(Start: 22 @68644 has 22 MA's), (27, 68683), (31, 68734), (40, 68794), (51, 68848), (60, 68893), (62, 68908), (76, 68974), (78, 69010),

Gene: ShedlockHolmes_59 Start: 40862, Stop: 41131, Start Num: 21

Candidate Starts for ShedlockHolmes_59:

(2, 40667), (11, 40823), (Start: 21 @40862 has 94 MA's), (28, 40907), (34, 40973), (36, 40994), (71, 41120),

Gene: ShiaSurprise_59 Start: 40855, Stop: 41121, Start Num: 21

Candidate Starts for ShiaSurprise_59:

(11, 40813), (Start: 21 @40855 has 94 MA's), (28, 40900), (39, 40996), (42, 41014), (60, 41068), (64, 41086), (67, 41098), (71, 41110),

Gene: SirPhilip_59 Start: 41271, Stop: 41540, Start Num: 21

Candidate Starts for SirPhilip_59:

(2, 41073), (4, 41124), (Start: 21 @41271 has 94 MA's), (28, 41316), (30, 41343), (36, 41403), (71, 41529),

Gene: Sixama_38 Start: 12651, Stop: 12286, Start Num: 21

Candidate Starts for Sixama_38:

(8, 12729), (Start: 14 @12684 has 2 MA's), (Start: 21 @12651 has 94 MA's), (28, 12606), (29, 12585), (54, 12429), (75, 12339), (77, 12312),

Gene: Slimphazie_58 Start: 40534, Stop: 40800, Start Num: 21

Candidate Starts for Slimphazie_58:

(11, 40492), (Start: 21 @40534 has 94 MA's), (28, 40579), (39, 40675), (42, 40693), (60, 40747), (64, 40765), (67, 40777), (71, 40789),

Gene: SparkleGoddess_103 Start: 69278, Stop: 69643, Start Num: 22

Candidate Starts for SparkleGoddess_103:

(Start: 22 @69278 has 22 MA's), (23, 69281), (31, 69368), (52, 69488), (60, 69530), (69, 69569), (73, 69587),

Gene: Spock_58 Start: 40659, Stop: 40925, Start Num: 21

Candidate Starts for Spock_58:

(11, 40617), (Start: 21 @40659 has 94 MA's), (39, 40800), (42, 40818), (60, 40872), (64, 40890), (67, 40902), (71, 40914),

Gene: Stigma_102 Start: 69286, Stop: 69651, Start Num: 22

Candidate Starts for Stigma_102:

(Start: 22 @69286 has 22 MA's), (23, 69289), (31, 69376), (52, 69496), (60, 69538), (69, 69577), (73, 69595),

Gene: Stinson_59 Start: 41036, Stop: 41302, Start Num: 21

Candidate Starts for Stinson_59:

(Start: 21 @41036 has 94 MA's), (28, 41081), (39, 41177), (45, 41201), (60, 41249), (64, 41267), (67, 41279), (71, 41291),

Gene: Sulley_58 Start: 40710, Stop: 40976, Start Num: 21

Candidate Starts for Sulley_58:

(11, 40668), (Start: 21 @40710 has 94 MA's), (28, 40755), (39, 40851), (60, 40923), (64, 40941), (67, 40953), (71, 40965),

Gene: Syleon_113 Start: 62277, Stop: 62594, Start Num: 17

Candidate Starts for Syleon_113:

(Start: 17 @62277 has 3 MA's), (24, 62298), (53, 62499),

Gene: TBond007_56 Start: 40342, Stop: 40611, Start Num: 21

Candidate Starts for TBond007_56:

(11, 40303), (Start: 21 @40342 has 94 MA's), (28, 40387), (34, 40453), (36, 40474), (71, 40600),

Gene: Tachez_58 Start: 40503, Stop: 40769, Start Num: 21

Candidate Starts for Tachez_58:

(11, 40461), (Start: 21 @40503 has 94 MA's), (28, 40548), (39, 40644), (42, 40662), (60, 40716), (64, 40734), (67, 40746), (71, 40758),

Gene: TaiwanKao_60 Start: 40804, Stop: 41070, Start Num: 21

Candidate Starts for TaiwanKao_60:

(11, 40762), (Start: 21 @40804 has 94 MA's), (28, 40849), (39, 40945), (60, 41017), (64, 41035), (67, 41047), (71, 41059),

Gene: TingHuaYa_60 Start: 39863, Stop: 40129, Start Num: 21

Candidate Starts for TingHuaYa_60:

(Start: 21 @39863 has 94 MA's), (28, 39908), (39, 40004), (60, 40076), (64, 40094), (67, 40106), (71, 40118),

Gene: TiniBug_59 Start: 41435, Stop: 41701, Start Num: 21

Candidate Starts for TiniBug_59:

(11, 41393), (Start: 21 @41435 has 94 MA's), (28, 41480), (39, 41576), (60, 41648), (64, 41666), (67, 41678), (71, 41690),

Gene: Tiri_59 Start: 40824, Stop: 41090, Start Num: 21

Candidate Starts for Tiri_59:

(11, 40782), (Start: 21 @40824 has 94 MA's), (28, 40869), (39, 40965), (42, 40983), (55, 41022), (60, 41037), (64, 41055), (67, 41067), (71, 41079),

Gene: Topper_58 Start: 40658, Stop: 40924, Start Num: 21

Candidate Starts for Topper_58:

(11, 40616), (Start: 21 @40658 has 94 MA's), (39, 40799), (42, 40817), (60, 40871), (64, 40889), (67, 40901), (71, 40913),

Gene: Trax_110 Start: 63415, Stop: 63750, Start Num: 14

Candidate Starts for Trax_110:

(10, 63385), (Start: 14 @63415 has 2 MA's), (Start: 16 @63433 has 1 MA's), (32, 63544), (37, 63580), (53, 63661), (57, 63694), (61, 63706), (68, 63733),

Gene: TreyKay_59 Start: 40742, Stop: 41008, Start Num: 21

Candidate Starts for TreyKay_59:

(11, 40700), (Start: 21 @40742 has 94 MA's), (28, 40787), (39, 40883), (60, 40955), (64, 40973), (67, 40985), (71, 40997),

Gene: TribbleTrouble_57 Start: 40818, Stop: 41087, Start Num: 21

Candidate Starts for TribbleTrouble_57:

(Start: 21 @40818 has 94 MA's), (28, 40863), (34, 40929), (36, 40950), (71, 41076),

Gene: TruffulaTree_58 Start: 40530, Stop: 40796, Start Num: 21

Candidate Starts for TruffulaTree_58:

(11, 40488), (Start: 21 @40530 has 94 MA's), (28, 40575), (39, 40671), (42, 40689), (60, 40743), (64, 40761), (67, 40773), (71, 40785),

Gene: TunaTartare_101 Start: 69807, Stop: 70181, Start Num: 22

Candidate Starts for TunaTartare_101:

(Start: 22 @69807 has 22 MA's), (31, 69897), (51, 70011), (60, 70056), (62, 70071), (76, 70137), (78, 70173),

Gene: Twitch_58 Start: 40660, Stop: 40926, Start Num: 21

Candidate Starts for Twitch_58:

(11, 40618), (Start: 21 @40660 has 94 MA's), (28, 40705), (39, 40801), (42, 40819), (60, 40873), (64, 40891), (67, 40903), (71, 40915),

Gene: Urkel_59 Start: 41439, Stop: 41705, Start Num: 21

Candidate Starts for Urkel_59:

(11, 41397), (Start: 21 @41439 has 94 MA's), (28, 41484), (39, 41580), (60, 41652), (64, 41670), (67, 41682), (71, 41694),

Gene: Veliki_59 Start: 40516, Stop: 40782, Start Num: 21

Candidate Starts for Veliki_59:

(11, 40474), (Start: 21 @40516 has 94 MA's), (28, 40561), (39, 40657), (60, 40729), (64, 40747), (67, 40759), (71, 40771),

Gene: Weasels2_136 Start: 80031, Stop: 80330, Start Num: 22

Candidate Starts for Weasels2_136:

(19, 80022), (Start: 22 @80031 has 22 MA's), (50, 80229),

Gene: Westy_104 Start: 70313, Stop: 70678, Start Num: 22

Candidate Starts for Westy_104:

(Start: 22 @70313 has 22 MA's), (23, 70316), (31, 70403), (52, 70523), (60, 70565), (65, 70589), (69, 70604), (73, 70622),

Gene: YoureAdopted_57 Start: 40659, Stop: 40925, Start Num: 21

Candidate Starts for YoureAdopted_57:

(11, 40617), (Start: 21 @40659 has 94 MA's), (39, 40800), (42, 40818), (60, 40872), (64, 40890), (67, 40902), (71, 40914),

Gene: Yuna_63 Start: 41860, Stop: 42126, Start Num: 20

Candidate Starts for Yuna_63:

(7, 41767), (Start: 20 @41860 has 2 MA's), (Start: 21 @41863 has 94 MA's), (28, 41908), (32, 41959), (36, 41989), (71, 42115),

Gene: Yunkel11_61 Start: 40355, Stop: 40621, Start Num: 21

Candidate Starts for Yunkel11_61:

(3, 40160), (Start: 21 @40355 has 94 MA's), (28, 40400), (39, 40496), (64, 40586), (67, 40598), (71, 40610),

Gene: Zabiza_53 Start: 36844, Stop: 37110, Start Num: 21

Candidate Starts for Zabiza_53:

(11, 36802), (Start: 21 @36844 has 94 MA's), (28, 36889), (39, 36985), (60, 37057), (64, 37075), (67, 37087), (71, 37099),

Gene: Zavala_60 Start: 40815, Stop: 41081, Start Num: 21

Candidate Starts for Zavala_60:

(11, 40773), (Start: 21 @40815 has 94 MA's), (28, 40860), (39, 40956), (60, 41028), (64, 41046), (67, 41058), (71, 41070),