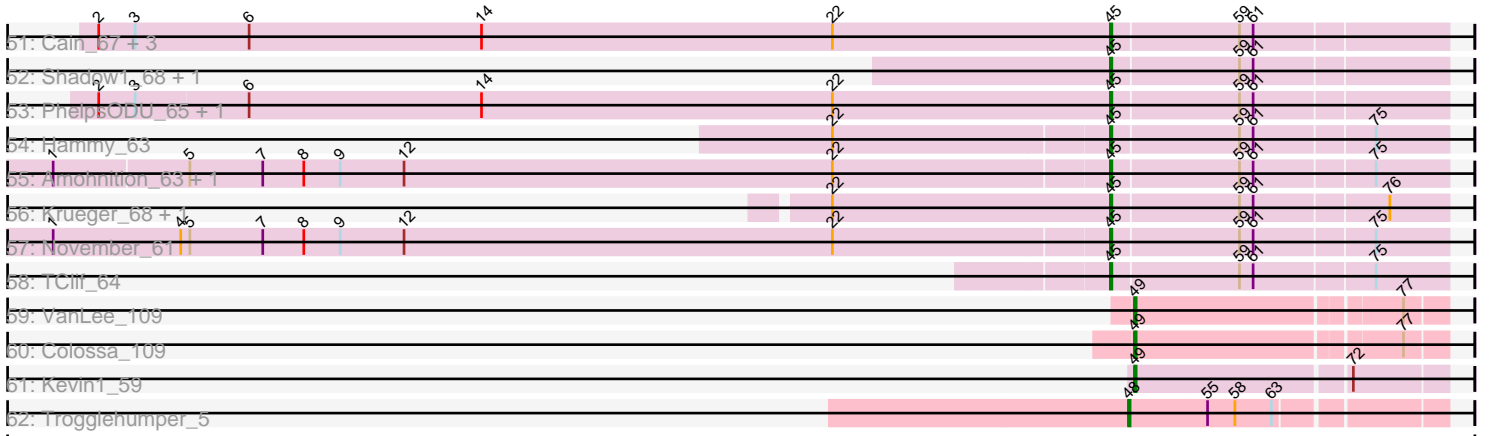


Pham 311255



Pham 311255



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 311255 Report

This analysis was run 06/27/26 on database version 652.

Pham number 311255 has 193 members, 10 are drafts.

Phages represented in each track:

- Track 1 : Isolde_49
- Track 2 : AbbyDaisy_49
- Track 3 : BlueShadow_48
- Track 4 : MidnightRain_51
- Track 5 : DarwinJr_52
- Track 6 : Floral_54, Pollux_56
- Track 7 : Agueybana_55
- Track 8 : WelcomeAyanna_56, ThankyouJordi_56
- Track 9 : Madeline_54
- Track 10 : Brylie_71, WheatThin_71, Nadeem_71, Parada_71, Mulch_71
- Track 11 : Ayotoya_72, GrandSlam_73, DelRio_72, Hamood_73, Chop_73
- Track 12 : Skog_217
- Track 13 : MisoSoup_49
- Track 14 : Richo_66, Dartin_66, Shaobing_66, McMater_66, Peanam_66
- Track 15 : DartGoblin_65, Anma_65, TiniBug_64, Urkel_64, DrHayes_64, SamuelLPlaqson_64, Bella96_64, Anaya_66
- Track 16 : Veliki_65, JAWS_64, Guanica15_68, Efra2_69, BaghaKamala_63, Zavala_66, Yunkel11_68, Mynx_65
- Track 17 : LaterM_64
- Track 18 : BGlluviae_63, Jarvi_63, Twitch_63, Blizzard_63, Atiba_64, Hyperbowlee_63, Llorens_63, Adephegia_63, Ramen_64, Zabiza_58, Homura_63, Tachez_63, CaseJules_65, Spock_63, Pisa1_63, Jeckyll_63, Rosmarinus_63, QuincyRose_62, ShiaSurprise_64, Lunahalos_63, Boiiii_63, Apocalypse_66, Durfee_63, Piatt_63, Sulley_63, Joy99_63, Tiri_64, Peel_63, ActinUp_63, Belladonna_63, Adonis_63, Beezoo_65, Padfoot_63, Topper_63, Angelica_63, Dalmuri_63, Geraldini_66, Inky_63, Asayake_63, CallaLilly_63, Capricorn_63, MeaningOfLife_64, Ganymede_64, HedwigODU_63, CREW_63, BEEST_63
- Track 19 : Stinson_65
- Track 20 : MacKat_59, Ageofdapage_67, Emerson_65, Clipper_67, Padpat_66
- Track 21 : Prithvi_65, Devera_71, CrimD_65, Rapunzel97_65, BarrelRoll_64, Pokerus_63, TruffulaTree_64, YoureAdopted_63, TaiwanKao_66, Illumine_69, Murucutumbu_65, Slimphazie_64, Dole_69, LindNT_63, TreyKay_65
- Track 22 : LilPharaoh_52, SgtBeansprout_52
- Track 23 : Bern_65, Deby_64, CheetoDust_63, Jayhawk_65
- Track 24 : Chris_66
- Track 25 : MarkPhew_66
- Track 26 : Nibb_66

- Track 27 : LastHope_68
- Track 28 : Niklas_66
- Track 29 : Chavito_66
- Track 30 : KiSi_68, Oscar_67, LeMond_67, Scarlett_68
- Track 31 : Megsy_66
- Track 32 : TingHuaYa_67
- Track 33 : Validus_68
- Track 34 : Curiosium_67
- Track 35 : Keshu_66
- Track 36 : TribbleTrouble_64
- Track 37 : Hurricane_64, Lea83_64, Pixie_63, ShedlockHolmes_65
- Track 38 : MacnCheese_66
- Track 39 : Pharb_63
- Track 40 : Leston_57, Heftyboy_58, Guillsminger_58, Waterfoul_59, Paola_57, SoSeph_58, Thyatira_60, Feyre_60
- Track 41 : Larva_58, AlleyCat_59, Psycho_57, Dadosky_59
- Track 42 : OkiRoe_58, Gengar_57, Miryou_61
- Track 43 : DoubleChamp_54, Agent47_57, BananenDer11_57, LilDirt_56, Collard_55, InvictusManeo_55, ViviJ_56
- Track 44 : Edugator_56
- Track 45 : Omnicron_61
- Track 46 : Kratio_55
- Track 47 : Rando14_59
- Track 48 : Ximenita_69, Syra333_67
- Track 49 : Marshawn_63
- Track 50 : Fefferhead_61, Amgine_62, Lavahound_61, Ellie_59, Applecrisp_60
- Track 51 : Cain_67, Tierra_67, Bryler_67, Phrank_67
- Track 52 : Shadow1_68, Sunflower1121_69
- Track 53 : PhelpsODU_65, Unicorn_65
- Track 54 : Hammy_63
- Track 55 : Amohnition_63, DarthP_63
- Track 56 : Krueger_68, Tigress9_68
- Track 57 : November_61
- Track 58 : TClif_64
- Track 59 : VanLee_109
- Track 60 : Colossa_109
- Track 61 : Kevin1_59
- Track 62 : Trogglehumper_5

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

The start number called the most often in the published annotations is 43, it was called in 87 of the 183 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ActinUp_63, Adephegia_63, Adonis_63, Ageofdapage_67, Anaya_66, Angelica_63, Anma_65, Apocalypse_66, Asayake_63, Atiba_64, BEEST_63, BGlluviae_63, BaghaKamala_63, BarrelRoll_64, Beezoo_65, Bella96_64, Belladonna_63, Bern_65, Blizzard_63, Boiiii_63, CREW_63, CallaLilly_63, Capricorn_63, CaseJules_65, CheetoDust_63, Clipper_67, CrimD_65, Curiosium_67, Dalmuri_63, DartGoblin_65,

Deby_64, Devera_71, Dole_69, DrHayes_64, Durfee_63, Efra2_69, Emerson_65, Ganymede_64, Geraldini_66, Guanica15_68, HedwigODU_63, Homura_63, Hyperbowlee_63, Illumine_69, Inky_63, JAWS_64, Jarvi_63, Jayhawk_65, Jeckyll_63, Joy99_63, LaterM_64, LindNT_63, Llorens_63, Lunahalos_63, MackKat_59, MeaningOfLife_64, Megsy_66, Murucutumbu_65, Mynx_65, Padfoot_63, Padpat_66, Peel_63, Piatt_63, Pisa1_63, Pokerus_63, Prithvi_65, QuincyRose_62, Ramen_64, Rapunzel97_65, Rosmarinus_63, SamuelLPlaqson_64, ShiaSurprise_64, Slimphazie_64, Spock_63, Stinson_65, Sulley_63, Tachez_63, TaiwanKao_66, TingHuaYa_67, TiniBug_64, Tiri_64, Topper_63, TreyKay_65, TruffulaTree_64, Twitch_63, Urkel_64, Veliki_65, YoureAdopted_63, Yunkel11_68, Zabiza_58, Zavala_66,

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

- MacnCheese_66,

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

- AbbyDaisy_49, Agent47_57, Agueybana_55, AlleyCat_59, Amgine_62, Amohntion_63, Applecrisp_60, Ayotoya_72, BananenDer11_57, BlueShadow_48, Bryler_67, Brylie_71, Cain_67, Chavito_66, Chop_73, Chris_66, Collard_55, Colossa_109, Dadosky_59, DarthP_63, Dartin_66, DarwinJr_52, DelRio_72, DoubleChamp_54, Edugator_56, Ellie_59, Fefferhead_61, Feyre_60, Floral_54, Gengar_57, GrandSlam_73, Guillsminger_58, Hammy_63, Hamood_73, Heftyboy_58, Hurricane_64, InvictusManeo_55, Isolde_49, Keshu_66, Kevin1_59, KiSi_68, Kratio_55, Krueger_68, Larva_58, LastHope_68, Lavahound_61, LeMond_67, Lea83_64, Leston_57, LilDirt_56, LilPharaoh_52, Madeline_54, MarkPhew_66, Marshawn_63, McMater_66, MidnightRain_51, Miryou_61, MisoSoup_49, Mulch_71, Nadeem_71, Nibb_66, Niklas_66, November_61, OkiRoe_58, Omnicron_61, Oscar_67, Paola_57, Parada_71, Peanam_66, Pharb_63, PhelpsODU_65, Phrank_67, Pixie_63, Pollux_56, Psycho_57, Rando14_59, Richo_66, Scarlett_68, SgtBeansprout_52, Shadow1_68, Shaobing_66, ShedlockHolmes_65, Skog_217, SoSeph_58, Sunflower1121_69, Syra333_67, TClif_64, ThankyouJordi_56, Thyatira_60, Tierra_67, Tigress9_68, TribbleTrouble_64, Trogglehumper_5, Unicorn_65, Validus_68, VanLee_109, ViviJ_56, Waterfoul_59, WelcomeAyanna_56, WheatThin_71, Ximenita_69,

Summary by start number:

Start 35:

- Found in 1 of 193 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 183
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Skog_217 (DO),

Start 40:

- Found in 6 of 193 (3.1%) of genes in pham
- Manual Annotations of this start: 6 of 183
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Agueybana_55 (CZ1), Floral_54 (CY1), Madeline_54 (CZ1), Pollux_56 (CY1), ThankyouJordi_56 (CZ1), WelcomeAyanna_56 (CZ1),

Start 43:

- Found in 92 of 193 (47.7%) of genes in pham

- Manual Annotations of this start: 87 of 183
- Called 98.9% of time when present
- Phage (with cluster) where this start called: ActinUp_63 (K1), Adephagia_63 (K1), Adonis_63 (K1), Ageofdapage_67 (K1), Anaya_66 (K1), Angelica_63 (K1), Anma_65 (K1), Apocalypse_66 (K1), Asayake_63 (K1), Atiba_64 (K1), BEEEST_63 (K1), BGIlluvia_63 (K1), BaghaKamala_63 (K1), BarrelRoll_64 (K1), Beezoo_65 (K1), Bella96_64 (K1), Belladonna_63 (K1), Bern_65 (K1), Blizzard_63 (K1), Boiiii_63 (K1), CREW_63 (K1), CallaLilly_63 (K1), Capricorn_63 (K1), CaseJules_65 (K1), CheetoDust_63 (K1), Clipper_67 (K1), CrimD_65 (K1), Curiosium_67 (K1), Dalmuri_63 (K1), DartGoblin_65 (K1), Deby_64 (K1), Devera_71 (K1), Dole_69 (K1), DrHayes_64 (K1), Durfee_63 (K1), Efra2_69 (K1), Emerson_65 (K1), Ganymede_64 (K1), Geraldini_66 (K1), Guanica15_68 (K1), HedwigODU_63 (K1), Homura_63 (K1), Hyperbowlee_63 (K1), Illumine_69 (K1), Inky_63 (K1), JAWS_64 (K1), Jarvi_63 (K1), Jayhawk_65 (K1), Jeckyll_63 (K1), Joy99_63 (K1), LaterM_64 (K1), LindNT_63 (K1), Llorens_63 (K1), Lunahalos_63 (K1), MacKat_59 (K1), MeaningOfLife_64 (K1), Megsy_66 (K1), Murucutumbu_65 (K1), Mynx_65 (K1), Padfoot_63 (K1), Padpat_66 (K1), Peel_63 (K1), Piatt_63 (K1), Pisa1_63 (K1), Pokerus_63 (K1), Prithvi_65 (K1), QuincyRose_62 (K1), Ramen_64 (K1), Rapunzel97_65 (K1), Rosmarinus_63 (K1), SamuelLPlaqson_64 (K1), ShiaSurprise_64 (K1), Slimphazie_64 (K1), Spock_63 (K1), Stinson_65 (K1), Sulley_63 (K1), Tachez_63 (K1), TaiwanKao_66 (K1), TingHuaYa_67 (K1), TiniBug_64 (K1), Tiri_64 (K1), Topper_63 (K1), TreyKay_65 (K1), TruffulaTree_64 (K1), Twitch_63 (K1), Urkel_64 (K1), Veliki_65 (K1), YoureAdopted_63 (K1), Yunkel11_68 (K1), Zabiza_58 (K1), Zavala_66 (K1),

Start 45:

- Found in 75 of 193 (38.9%) of genes in pham
- Manual Annotations of this start: 70 of 183
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Agent47_57 (K5), AlleyCat_59 (K5), Amgine_62 (K6), Amohntion_63 (K6), Applecrisp_60 (K6), BananenDer11_57 (K5), Bryler_67 (K6), Cain_67 (K6), Chavito_66 (K1), Chris_66 (K1), Collard_55 (K5), Dadosky_59 (K5), DARTH_P_63 (K6), Dartin_66 (K1), DoubleChamp_54 (K5), Edugator_56 (K5), Ellie_59 (K6), Fefferhead_61 (K6), Feyre_60 (K5), Gengar_57 (K5), Guillsminger_58 (K5), Hammy_63 (K6), Heftyboy_58 (K5), Hurricane_64 (K3), InvictusManeo_55 (K5), Keshu_66 (K3), KiSi_68 (K1), Kratio_55 (K5), Krueger_68 (K6), Larva_58 (K5), LastHope_68 (K1), Lavahound_61 (K6), LeMond_67 (K1), Lea83_64 (K3), Leston_57 (K5), LilDirt_56 (K5), LilPharaoh_52 (K1), MacnCheese_66 (K3), MarkPhew_66 (K1), Marshawn_63 (K6), McMater_66 (K1), Miryou_61 (K5), Nibb_66 (K1), Niklas_66 (K1), November_61 (K6), OkiRoe_58 (K5), Omnicron_61 (K5), Oscar_67 (K1), Paola_57 (K5), Peanam_66 (K1), Pharb_63 (K3), PhelpsODU_65 (K6), Phrank_67 (K6), Pixie_63 (K3), Psycho_57 (K5), Rando14_59 (K5), Richo_66 (K1), Scarlett_68 (K1), SgtBeansprout_52 (K1), Shadow1_68 (K6), Shaobing_66 (K1), ShedlockHolmes_65 (K3), SoSeph_58 (K5), Sunflower1121_69 (K6), Syra333_67 (K6), TClif_64 (K6), Thyatira_60 (K5), Tierra_67 (K6), Tigress9_68 (K6), TribbleTrouble_64 (K3), Unicorn_65 (K6), Validus_68 (K1), ViviJ_56 (K5), Waterfoul_59 (K5), Ximenita_69 (K6),

Start 47:

- Found in 10 of 193 (5.2%) of genes in pham
- Manual Annotations of this start: 10 of 183
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ayotoya_72 (DI), Brylie_71 (DI), Chop_73 (DI), DelRio_72 (DI), GrandSlam_73 (DI), Hamood_73 (DI), Mulch_71 (DI),

Nadeem_71 (DI), Parada_71 (DI), WheatThin_71 (DI),

Start 48:

- Found in 1 of 193 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 183
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Trogglehumper_5 (singleton),

Start 49:

- Found in 8 of 193 (4.1%) of genes in pham
- Manual Annotations of this start: 8 of 183
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AbbyDaisy_49 (AY), BlueShadow_48 (AY), Colossa_109 (KA), DarwinJr_52 (AY), Isolde_49 (AY), Kevin1_59 (N), MidnightRain_51 (AY), VanLee_109 (KA),

Start 54:

- Found in 1 of 193 (0.5%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MisoSoup_49 (GM),

Summary by clusters:

There are 13 clusters represented in this pham: CY1, DO, KA, DI, CZ1, singleton, N, K3, K1, K6, K5, AY, GM,

Info for manual annotations of cluster AY:

- Start number 49 was manually annotated 5 times for cluster AY.

Info for manual annotations of cluster CY1:

- Start number 40 was manually annotated 2 times for cluster CY1.

Info for manual annotations of cluster CZ1:

- Start number 40 was manually annotated 4 times for cluster CZ1.

Info for manual annotations of cluster DI:

- Start number 47 was manually annotated 10 times for cluster DI.

Info for manual annotations of cluster DO:

- Start number 35 was manually annotated 1 time for cluster DO.

Info for manual annotations of cluster K1:

- Start number 43 was manually annotated 87 times for cluster K1.
- Start number 45 was manually annotated 14 times for cluster K1.

Info for manual annotations of cluster K3:

- Start number 45 was manually annotated 8 times for cluster K3.

Info for manual annotations of cluster K5:

- Start number 45 was manually annotated 25 times for cluster K5.

Info for manual annotations of cluster K6:

- Start number 45 was manually annotated 23 times for cluster K6.

Info for manual annotations of cluster KA:

- Start number 49 was manually annotated 2 times for cluster KA.

Info for manual annotations of cluster N:

- Start number 49 was manually annotated 1 time for cluster N.

Gene Information:

Gene: AbbyDaisy_49 Start: 31179, Stop: 31364, Start Num: 49

Candidate Starts for AbbyDaisy_49:

(39, 31122), (Start: 49 @31179 has 8 MA's), (57, 31236), (62, 31257), (65, 31272),

Gene: ActinUp_63 Start: 42440, Stop: 42655, Start Num: 43

Candidate Starts for ActinUp_63:

(Start: 43 @42440 has 87 MA's), (59, 42527), (61, 42536),

Gene: Adephagia_63 Start: 42477, Stop: 42692, Start Num: 43

Candidate Starts for Adephagia_63:

(Start: 43 @42477 has 87 MA's), (59, 42564), (61, 42573),

Gene: Adonis_63 Start: 42712, Stop: 42927, Start Num: 43

Candidate Starts for Adonis_63:

(Start: 43 @42712 has 87 MA's), (59, 42799), (61, 42808),

Gene: Agent47_57 Start: 39612, Stop: 39824, Start Num: 45

Candidate Starts for Agent47_57:

(32, 39537), (34, 39546), (36, 39558), (Start: 45 @39612 has 70 MA's), (50, 39630), (59, 39690), (64, 39714), (65, 39717), (68, 39744), (73, 39771), (78, 39819),

Gene: Ageofdapage_67 Start: 43868, Stop: 44083, Start Num: 43

Candidate Starts for Ageofdapage_67:

(Start: 43 @43868 has 87 MA's), (59, 43955), (61, 43964),

Gene: Agueybana_55 Start: 39414, Stop: 39656, Start Num: 40

Candidate Starts for Agueybana_55:

(Start: 40 @39414 has 6 MA's), (62, 39540),

Gene: AlleyCat_59 Start: 39910, Stop: 40122, Start Num: 45

Candidate Starts for AlleyCat_59:

(Start: 45 @39910 has 70 MA's), (59, 39988), (64, 40012), (65, 40015), (68, 40042), (73, 40069),

Gene: Amgine_62 Start: 43547, Stop: 43759, Start Num: 45

Candidate Starts for Amgine_62:

(Start: 45 @43547 has 70 MA's), (59, 43628), (61, 43637),

Gene: Amohnition_63 Start: 43082, Stop: 43294, Start Num: 45

Candidate Starts for Amohnition_63:

(1, 42395), (5, 42482), (7, 42530), (8, 42557), (9, 42581), (12, 42623), (22, 42905), (Start: 45 @43082 has 70 MA's), (59, 43163), (61, 43172), (75, 43247),

Gene: Anaya_66 Start: 43420, Stop: 43638, Start Num: 43
Candidate Starts for Anaya_66:
(Start: 43 @43420 has 87 MA's), (59, 43507), (61, 43516),

Gene: Angelica_63 Start: 42629, Stop: 42844, Start Num: 43
Candidate Starts for Angelica_63:
(Start: 43 @42629 has 87 MA's), (59, 42716), (61, 42725),

Gene: Anma_65 Start: 43328, Stop: 43543, Start Num: 43
Candidate Starts for Anma_65:
(Start: 43 @43328 has 87 MA's), (59, 43415), (61, 43424),

Gene: Apocalypse_66 Start: 43395, Stop: 43610, Start Num: 43
Candidate Starts for Apocalypse_66:
(Start: 43 @43395 has 87 MA's), (59, 43482), (61, 43491),

Gene: Applecrisp_60 Start: 42677, Stop: 42889, Start Num: 45
Candidate Starts for Applecrisp_60:
(Start: 45 @42677 has 70 MA's), (59, 42758), (61, 42767),

Gene: Asayake_63 Start: 42792, Stop: 43007, Start Num: 43
Candidate Starts for Asayake_63:
(Start: 43 @42792 has 87 MA's), (59, 42879), (61, 42888),

Gene: Atiba_64 Start: 42440, Stop: 42655, Start Num: 43
Candidate Starts for Atiba_64:
(Start: 43 @42440 has 87 MA's), (59, 42527), (61, 42536),

Gene: Ayotoya_72 Start: 48939, Stop: 49139, Start Num: 47
Candidate Starts for Ayotoya_72:
(31, 48855), (33, 48861), (44, 48927), (Start: 47 @48939 has 10 MA's),

Gene: BEEST_63 Start: 42792, Stop: 43007, Start Num: 43
Candidate Starts for BEEST_63:
(Start: 43 @42792 has 87 MA's), (59, 42879), (61, 42888),

Gene: BGlluviae_63 Start: 42595, Stop: 42810, Start Num: 43
Candidate Starts for BGlluviae_63:
(Start: 43 @42595 has 87 MA's), (59, 42682), (61, 42691),

Gene: BaghaKamala_63 Start: 42253, Stop: 42471, Start Num: 43
Candidate Starts for BaghaKamala_63:
(29, 42175), (Start: 43 @42253 has 87 MA's), (59, 42340), (61, 42349),

Gene: BananenDer11_57 Start: 39573, Stop: 39785, Start Num: 45
Candidate Starts for BananenDer11_57:
(32, 39498), (34, 39507), (36, 39519), (Start: 45 @39573 has 70 MA's), (50, 39591), (59, 39651), (64, 39675), (65, 39678), (68, 39705), (73, 39732), (78, 39780),

Gene: BarrelRoll_64 Start: 42877, Stop: 43092, Start Num: 43

Candidate Starts for BarrelRoll_64:
(30, 42799), (Start: 43 @42877 has 87 MA's), (59, 42964), (61, 42973),

Gene: Beezoo_65 Start: 43389, Stop: 43604, Start Num: 43
Candidate Starts for Beezoo_65:
(Start: 43 @43389 has 87 MA's), (59, 43476), (61, 43485),

Gene: Bella96_64 Start: 43173, Stop: 43388, Start Num: 43
Candidate Starts for Bella96_64:
(Start: 43 @43173 has 87 MA's), (59, 43260), (61, 43269),

Gene: Belladonna_63 Start: 42595, Stop: 42810, Start Num: 43
Candidate Starts for Belladonna_63:
(Start: 43 @42595 has 87 MA's), (59, 42682), (61, 42691),

Gene: Bern_65 Start: 41846, Stop: 42064, Start Num: 43
Candidate Starts for Bern_65:
(Start: 43 @41846 has 87 MA's), (59, 41933), (61, 41942),

Gene: Blizzard_63 Start: 42792, Stop: 43007, Start Num: 43
Candidate Starts for Blizzard_63:
(Start: 43 @42792 has 87 MA's), (59, 42879), (61, 42888),

Gene: BlueShadow_48 Start: 30488, Stop: 30679, Start Num: 49
Candidate Starts for BlueShadow_48:
(17, 30227), (29, 30389), (Start: 49 @30488 has 8 MA's),

Gene: Boiiii_63 Start: 42794, Stop: 43009, Start Num: 43
Candidate Starts for Boiiii_63:
(Start: 43 @42794 has 87 MA's), (59, 42881), (61, 42890),

Gene: Bryler_67 Start: 42423, Stop: 42635, Start Num: 45
Candidate Starts for Bryler_67:
(2, 41757), (3, 41781), (6, 41856), (14, 42009), (22, 42240), (Start: 45 @42423 has 70 MA's), (59, 42504), (61, 42513),

Gene: Brylie_71 Start: 47955, Stop: 48155, Start Num: 47
Candidate Starts for Brylie_71:
(31, 47871), (33, 47877), (41, 47931), (44, 47943), (Start: 47 @47955 has 10 MA's),

Gene: CREW_63 Start: 42595, Stop: 42810, Start Num: 43
Candidate Starts for CREW_63:
(Start: 43 @42595 has 87 MA's), (59, 42682), (61, 42691),

Gene: Cain_67 Start: 42411, Stop: 42623, Start Num: 45
Candidate Starts for Cain_67:
(2, 41745), (3, 41769), (6, 41844), (14, 41997), (22, 42228), (Start: 45 @42411 has 70 MA's), (59, 42492), (61, 42501),

Gene: CallaLilly_63 Start: 42518, Stop: 42733, Start Num: 43
Candidate Starts for CallaLilly_63:
(Start: 43 @42518 has 87 MA's), (59, 42605), (61, 42614),

Gene: Capricorn_63 Start: 42595, Stop: 42810, Start Num: 43

Candidate Starts for Capricorn_63:

(Start: 43 @42595 has 87 MA's), (59, 42682), (61, 42691),

Gene: CaseJules_65 Start: 42792, Stop: 43007, Start Num: 43

Candidate Starts for CaseJules_65:

(Start: 43 @42792 has 87 MA's), (59, 42879), (61, 42888),

Gene: Chavito_66 Start: 43632, Stop: 43841, Start Num: 45

Candidate Starts for Chavito_66:

(Start: 45 @43632 has 70 MA's), (59, 43713), (61, 43722), (75, 43797),

Gene: CheetoDust_63 Start: 42300, Stop: 42518, Start Num: 43

Candidate Starts for CheetoDust_63:

(Start: 43 @42300 has 87 MA's), (59, 42387), (61, 42396),

Gene: Chop_73 Start: 49004, Stop: 49204, Start Num: 47

Candidate Starts for Chop_73:

(31, 48920), (33, 48926), (44, 48992), (Start: 47 @49004 has 10 MA's),

Gene: Chris_66 Start: 43655, Stop: 43864, Start Num: 45

Candidate Starts for Chris_66:

(11, 43181), (Start: 45 @43655 has 70 MA's), (56, 43718), (59, 43736), (61, 43745), (66, 43769),

Gene: Clipper_67 Start: 43491, Stop: 43709, Start Num: 43

Candidate Starts for Clipper_67:

(Start: 43 @43491 has 87 MA's), (59, 43578), (61, 43587),

Gene: Collard_55 Start: 39573, Stop: 39785, Start Num: 45

Candidate Starts for Collard_55:

(32, 39498), (34, 39507), (36, 39519), (Start: 45 @39573 has 70 MA's), (50, 39591), (59, 39651), (64, 39675), (65, 39678), (68, 39705), (73, 39732), (78, 39780),

Gene: Colossa_109 Start: 57696, Stop: 57887, Start Num: 49

Candidate Starts for Colossa_109:

(Start: 49 @57696 has 8 MA's), (77, 57861),

Gene: CrimD_65 Start: 43416, Stop: 43631, Start Num: 43

Candidate Starts for CrimD_65:

(30, 43338), (Start: 43 @43416 has 87 MA's), (59, 43503), (61, 43512),

Gene: Curiosium_67 Start: 42105, Stop: 42323, Start Num: 43

Candidate Starts for Curiosium_67:

(Start: 43 @42105 has 87 MA's), (46, 42117), (59, 42192), (61, 42201),

Gene: Dadosky_59 Start: 39912, Stop: 40124, Start Num: 45

Candidate Starts for Dadosky_59:

(Start: 45 @39912 has 70 MA's), (59, 39990), (64, 40014), (65, 40017), (68, 40044), (73, 40071),

Gene: Dalmuri_63 Start: 42595, Stop: 42810, Start Num: 43

Candidate Starts for Dalmuri_63:

(Start: 43 @42595 has 87 MA's), (59, 42682), (61, 42691),

Gene: DartGoblin_65 Start: 43145, Stop: 43360, Start Num: 43

Candidate Starts for DartGoblin_65:

(Start: 43 @43145 has 87 MA's), (59, 43232), (61, 43241),

Gene: DarthP_63 Start: 42936, Stop: 43148, Start Num: 45

Candidate Starts for DarthP_63:

(1, 42249), (5, 42336), (7, 42384), (8, 42411), (9, 42435), (12, 42477), (22, 42759), (Start: 45 @42936 has 70 MA's), (59, 43017), (61, 43026), (75, 43101),

Gene: Dartin_66 Start: 43084, Stop: 43293, Start Num: 45

Candidate Starts for Dartin_66:

(21, 42904), (Start: 45 @43084 has 70 MA's), (59, 43165), (61, 43174),

Gene: DarwinJr_52 Start: 31842, Stop: 32027, Start Num: 49

Candidate Starts for DarwinJr_52:

(22, 31647), (26, 31707), (27, 31716), (38, 31785), (Start: 49 @31842 has 8 MA's), (57, 31899), (65, 31935),

Gene: Deby_64 Start: 43078, Stop: 43293, Start Num: 43

Candidate Starts for Deby_64:

(Start: 43 @43078 has 87 MA's), (59, 43165), (61, 43174),

Gene: DelRio_72 Start: 49046, Stop: 49246, Start Num: 47

Candidate Starts for DelRio_72:

(31, 48962), (33, 48968), (44, 49034), (Start: 47 @49046 has 10 MA's),

Gene: Devera_71 Start: 44431, Stop: 44646, Start Num: 43

Candidate Starts for Devera_71:

(30, 44353), (Start: 43 @44431 has 87 MA's), (59, 44518), (61, 44527),

Gene: Dole_69 Start: 44434, Stop: 44649, Start Num: 43

Candidate Starts for Dole_69:

(30, 44356), (Start: 43 @44434 has 87 MA's), (59, 44521), (61, 44530),

Gene: DoubleChamp_54 Start: 39573, Stop: 39785, Start Num: 45

Candidate Starts for DoubleChamp_54:

(32, 39498), (34, 39507), (36, 39519), (Start: 45 @39573 has 70 MA's), (50, 39591), (59, 39651), (64, 39675), (65, 39678), (68, 39705), (73, 39732), (78, 39780),

Gene: DrHayes_64 Start: 43328, Stop: 43543, Start Num: 43

Candidate Starts for DrHayes_64:

(Start: 43 @43328 has 87 MA's), (59, 43415), (61, 43424),

Gene: Durfee_63 Start: 42792, Stop: 43007, Start Num: 43

Candidate Starts for Durfee_63:

(Start: 43 @42792 has 87 MA's), (59, 42879), (61, 42888),

Gene: Edugator_56 Start: 41333, Stop: 41545, Start Num: 45

Candidate Starts for Edugator_56:

(Start: 45 @41333 has 70 MA's), (50, 41351), (59, 41411), (64, 41435), (65, 41438), (68, 41465), (73, 41492), (78, 41540),

Gene: Efra2_69 Start: 43158, Stop: 43376, Start Num: 43

Candidate Starts for Efra2_69:
(29, 43080), (Start: 43 @43158 has 87 MA's), (59, 43245), (61, 43254),

Gene: Ellie_59 Start: 42407, Stop: 42619, Start Num: 45
Candidate Starts for Ellie_59:
(Start: 45 @42407 has 70 MA's), (59, 42488), (61, 42497),

Gene: Emerson_65 Start: 42909, Stop: 43127, Start Num: 43
Candidate Starts for Emerson_65:
(Start: 43 @42909 has 87 MA's), (59, 42996), (61, 43005),

Gene: Fefferhead_61 Start: 42316, Stop: 42528, Start Num: 45
Candidate Starts for Fefferhead_61:
(Start: 45 @42316 has 70 MA's), (59, 42397), (61, 42406),

Gene: Feyre_60 Start: 43292, Stop: 43504, Start Num: 45
Candidate Starts for Feyre_60:
(Start: 45 @43292 has 70 MA's), (59, 43370), (64, 43394), (65, 43397), (69, 43430), (73, 43451), (77, 43478),

Gene: Floral_54 Start: 40277, Stop: 40519, Start Num: 40
Candidate Starts for Floral_54:
(Start: 40 @40277 has 6 MA's), (62, 40403),

Gene: Ganymede_64 Start: 42817, Stop: 43032, Start Num: 43
Candidate Starts for Ganymede_64:
(Start: 43 @42817 has 87 MA's), (59, 42904), (61, 42913),

Gene: Gengar_57 Start: 41311, Stop: 41523, Start Num: 45
Candidate Starts for Gengar_57:
(Start: 45 @41311 has 70 MA's), (59, 41389), (64, 41413), (65, 41416), (68, 41443), (73, 41470), (77, 41497),

Gene: Geraldini_66 Start: 43474, Stop: 43689, Start Num: 43
Candidate Starts for Geraldini_66:
(Start: 43 @43474 has 87 MA's), (59, 43561), (61, 43570),

Gene: GrandSlam_73 Start: 49004, Stop: 49204, Start Num: 47
Candidate Starts for GrandSlam_73:
(31, 48920), (33, 48926), (44, 48992), (Start: 47 @49004 has 10 MA's),

Gene: Guanica15_68 Start: 42899, Stop: 43117, Start Num: 43
Candidate Starts for Guanica15_68:
(29, 42821), (Start: 43 @42899 has 87 MA's), (59, 42986), (61, 42995),

Gene: Guillsminger_58 Start: 41282, Stop: 41494, Start Num: 45
Candidate Starts for Guillsminger_58:
(Start: 45 @41282 has 70 MA's), (59, 41360), (64, 41384), (65, 41387), (69, 41420), (73, 41441), (77, 41468),

Gene: Hammy_63 Start: 42924, Stop: 43136, Start Num: 45
Candidate Starts for Hammy_63:
(22, 42747), (Start: 45 @42924 has 70 MA's), (59, 43005), (61, 43014), (75, 43089),

Gene: Hamood_73 Start: 49004, Stop: 49204, Start Num: 47
Candidate Starts for Hamood_73:
(31, 48920), (33, 48926), (44, 48992), (Start: 47 @49004 has 10 MA's),

Gene: HedwigODU_63 Start: 42440, Stop: 42655, Start Num: 43
Candidate Starts for HedwigODU_63:
(Start: 43 @42440 has 87 MA's), (59, 42527), (61, 42536),

Gene: Heftyboy_58 Start: 41654, Stop: 41866, Start Num: 45
Candidate Starts for Heftyboy_58:
(Start: 45 @41654 has 70 MA's), (59, 41732), (64, 41756), (65, 41759), (69, 41792), (73, 41813), (77, 41840),

Gene: Homura_63 Start: 42595, Stop: 42810, Start Num: 43
Candidate Starts for Homura_63:
(Start: 43 @42595 has 87 MA's), (59, 42682), (61, 42691),

Gene: Hurricane_64 Start: 42910, Stop: 43122, Start Num: 45
Candidate Starts for Hurricane_64:
(Start: 45 @42910 has 70 MA's), (61, 43000), (75, 43075),

Gene: Hyperbowlee_63 Start: 42792, Stop: 43007, Start Num: 43
Candidate Starts for Hyperbowlee_63:
(Start: 43 @42792 has 87 MA's), (59, 42879), (61, 42888),

Gene: Illumine_69 Start: 44433, Stop: 44648, Start Num: 43
Candidate Starts for Illumine_69:
(30, 44355), (Start: 43 @44433 has 87 MA's), (59, 44520), (61, 44529),

Gene: Inky_63 Start: 42595, Stop: 42810, Start Num: 43
Candidate Starts for Inky_63:
(Start: 43 @42595 has 87 MA's), (59, 42682), (61, 42691),

Gene: InvictusManeo_55 Start: 39616, Stop: 39828, Start Num: 45
Candidate Starts for InvictusManeo_55:
(32, 39541), (34, 39550), (36, 39562), (Start: 45 @39616 has 70 MA's), (50, 39634), (59, 39694), (64, 39718), (65, 39721), (68, 39748), (73, 39775), (78, 39823),

Gene: Isolde_49 Start: 30525, Stop: 30716, Start Num: 49
Candidate Starts for Isolde_49:
(Start: 49 @30525 has 8 MA's),

Gene: JAWS_64 Start: 42868, Stop: 43086, Start Num: 43
Candidate Starts for JAWS_64:
(29, 42790), (Start: 43 @42868 has 87 MA's), (59, 42955), (61, 42964),

Gene: Jarvi_63 Start: 42595, Stop: 42810, Start Num: 43
Candidate Starts for Jarvi_63:
(Start: 43 @42595 has 87 MA's), (59, 42682), (61, 42691),

Gene: Jayhawk_65 Start: 42937, Stop: 43152, Start Num: 43
Candidate Starts for Jayhawk_65:

(Start: 43 @42937 has 87 MA's), (59, 43024), (61, 43033),

Gene: Jeckyll_63 Start: 42595, Stop: 42810, Start Num: 43

Candidate Starts for Jeckyll_63:

(Start: 43 @42595 has 87 MA's), (59, 42682), (61, 42691),

Gene: Joy99_63 Start: 42524, Stop: 42739, Start Num: 43

Candidate Starts for Joy99_63:

(Start: 43 @42524 has 87 MA's), (59, 42611), (61, 42620),

Gene: Keshu_66 Start: 43008, Stop: 43220, Start Num: 45

Candidate Starts for Keshu_66:

(22, 42825), (Start: 45 @43008 has 70 MA's), (61, 43098), (75, 43173),

Gene: Kevin1_59 Start: 36836, Stop: 37027, Start Num: 49

Candidate Starts for Kevin1_59:

(Start: 49 @36836 has 8 MA's), (72, 36968),

Gene: KiSi_68 Start: 43636, Stop: 43845, Start Num: 45

Candidate Starts for KiSi_68:

(Start: 45 @43636 has 70 MA's), (50, 43657), (56, 43699), (59, 43717), (61, 43726), (66, 43750),

Gene: Kratio_55 Start: 39352, Stop: 39564, Start Num: 45

Candidate Starts for Kratio_55:

(10, 38872), (15, 38959), (16, 39010), (18, 39118), (19, 39124), (32, 39277), (34, 39286), (36, 39298),
(Start: 45 @39352 has 70 MA's), (50, 39370), (64, 39454), (65, 39457), (68, 39484), (73, 39511), (78, 39559),

Gene: Krueger_68 Start: 42699, Stop: 42911, Start Num: 45

Candidate Starts for Krueger_68:

(22, 42516), (Start: 45 @42699 has 70 MA's), (59, 42780), (61, 42789), (76, 42873),

Gene: Larva_58 Start: 40784, Stop: 40996, Start Num: 45

Candidate Starts for Larva_58:

(Start: 45 @40784 has 70 MA's), (59, 40862), (64, 40886), (65, 40889), (68, 40916), (73, 40943),

Gene: LastHope_68 Start: 42025, Stop: 42237, Start Num: 45

Candidate Starts for LastHope_68:

(Start: 45 @42025 has 70 MA's), (59, 42106), (61, 42115),

Gene: LaterM_64 Start: 43287, Stop: 43502, Start Num: 43

Candidate Starts for LaterM_64:

(Start: 43 @43287 has 87 MA's), (59, 43374), (61, 43383),

Gene: Lavahound_61 Start: 43684, Stop: 43896, Start Num: 45

Candidate Starts for Lavahound_61:

(Start: 45 @43684 has 70 MA's), (59, 43765), (61, 43774),

Gene: LeMond_67 Start: 43270, Stop: 43479, Start Num: 45

Candidate Starts for LeMond_67:

(Start: 45 @43270 has 70 MA's), (50, 43291), (56, 43333), (59, 43351), (61, 43360), (66, 43384),

Gene: Lea83_64 Start: 42945, Stop: 43157, Start Num: 45

Candidate Starts for Lea83_64:
(Start: 45 @42945 has 70 MA's), (61, 43035), (75, 43110),

Gene: Leston_57 Start: 41411, Stop: 41623, Start Num: 45
Candidate Starts for Leston_57:
(Start: 45 @41411 has 70 MA's), (59, 41489), (64, 41513), (65, 41516), (69, 41549), (73, 41570), (77, 41597),

Gene: LilDirt_56 Start: 39374, Stop: 39586, Start Num: 45
Candidate Starts for LilDirt_56:
(32, 39299), (34, 39308), (36, 39320), (Start: 45 @39374 has 70 MA's), (50, 39392), (59, 39452), (64, 39476), (65, 39479), (68, 39506), (73, 39533), (78, 39581),

Gene: LilPharaoh_52 Start: 39482, Stop: 39691, Start Num: 45
Candidate Starts for LilPharaoh_52:
(Start: 45 @39482 has 70 MA's), (59, 39563), (61, 39572),

Gene: LindNT_63 Start: 43082, Stop: 43297, Start Num: 43
Candidate Starts for LindNT_63:
(30, 43004), (Start: 43 @43082 has 87 MA's), (59, 43169), (61, 43178),

Gene: Llorens_63 Start: 42595, Stop: 42810, Start Num: 43
Candidate Starts for Llorens_63:
(Start: 43 @42595 has 87 MA's), (59, 42682), (61, 42691),

Gene: Lunahalos_63 Start: 42595, Stop: 42810, Start Num: 43
Candidate Starts for Lunahalos_63:
(Start: 43 @42595 has 87 MA's), (59, 42682), (61, 42691),

Gene: MacKat_59 Start: 38375, Stop: 38593, Start Num: 43
Candidate Starts for MacKat_59:
(Start: 43 @38375 has 87 MA's), (59, 38462), (61, 38471),

Gene: MacnCheese_66 Start: 43527, Stop: 43739, Start Num: 45
Candidate Starts for MacnCheese_66:
(Start: 43 @43521 has 87 MA's), (Start: 45 @43527 has 70 MA's), (61, 43617), (72, 43677), (75, 43692),

Gene: Madeline_54 Start: 39604, Stop: 39846, Start Num: 40
Candidate Starts for Madeline_54:
(Start: 40 @39604 has 6 MA's), (62, 39730),

Gene: MarkPhew_66 Start: 42770, Stop: 42982, Start Num: 45
Candidate Starts for MarkPhew_66:
(Start: 45 @42770 has 70 MA's), (56, 42833), (59, 42851), (61, 42860), (66, 42884),

Gene: Marshawn_63 Start: 43120, Stop: 43332, Start Num: 45
Candidate Starts for Marshawn_63:
(Start: 45 @43120 has 70 MA's), (59, 43201),

Gene: McMater_66 Start: 43084, Stop: 43293, Start Num: 45
Candidate Starts for McMater_66:
(21, 42904), (Start: 45 @43084 has 70 MA's), (59, 43165), (61, 43174),

Gene: MeaningOfLife_64 Start: 43347, Stop: 43562, Start Num: 43

Candidate Starts for MeaningOfLife_64:

(Start: 43 @43347 has 87 MA's), (59, 43434), (61, 43443),

Gene: Megsy_66 Start: 43003, Stop: 43218, Start Num: 43

Candidate Starts for Megsy_66:

(Start: 43 @43003 has 87 MA's), (59, 43090), (61, 43099),

Gene: MidnightRain_51 Start: 31618, Stop: 31809, Start Num: 49

Candidate Starts for MidnightRain_51:

(37, 31558), (Start: 49 @31618 has 8 MA's), (74, 31756),

Gene: Miryou_61 Start: 44008, Stop: 44220, Start Num: 45

Candidate Starts for Miryou_61:

(Start: 45 @44008 has 70 MA's), (59, 44086), (64, 44110), (65, 44113), (68, 44140), (73, 44167), (77, 44194),

Gene: MisoSoup_49 Start: 32203, Stop: 32030, Start Num: 54

Candidate Starts for MisoSoup_49:

(29, 32338), (53, 32206), (54, 32203), (71, 32110), (75, 32092),

Gene: Mulch_71 Start: 47994, Stop: 48194, Start Num: 47

Candidate Starts for Mulch_71:

(31, 47910), (33, 47916), (41, 47970), (44, 47982), (Start: 47 @47994 has 10 MA's),

Gene: Murucutumbu_65 Start: 43862, Stop: 44077, Start Num: 43

Candidate Starts for Murucutumbu_65:

(30, 43784), (Start: 43 @43862 has 87 MA's), (59, 43949), (61, 43958),

Gene: Mynx_65 Start: 43204, Stop: 43422, Start Num: 43

Candidate Starts for Mynx_65:

(29, 43126), (Start: 43 @43204 has 87 MA's), (59, 43291), (61, 43300),

Gene: Nadeem_71 Start: 47982, Stop: 48182, Start Num: 47

Candidate Starts for Nadeem_71:

(31, 47898), (33, 47904), (41, 47958), (44, 47970), (Start: 47 @47982 has 10 MA's),

Gene: Nibb_66 Start: 42981, Stop: 43193, Start Num: 45

Candidate Starts for Nibb_66:

(11, 42507), (Start: 45 @42981 has 70 MA's), (56, 43044), (59, 43062), (61, 43071), (70, 43122),

Gene: Niklas_66 Start: 43145, Stop: 43354, Start Num: 45

Candidate Starts for Niklas_66:

(Start: 45 @43145 has 70 MA's), (59, 43226), (61, 43235),

Gene: November_61 Start: 42834, Stop: 43046, Start Num: 45

Candidate Starts for November_61:

(1, 42144), (4, 42228), (5, 42234), (7, 42282), (8, 42309), (9, 42333), (12, 42375), (22, 42657), (Start: 45 @42834 has 70 MA's), (59, 42915), (61, 42924), (75, 42999),

Gene: OkiRoe_58 Start: 41679, Stop: 41891, Start Num: 45

Candidate Starts for OkiRoe_58:

(Start: 45 @41679 has 70 MA's), (59, 41757), (64, 41781), (65, 41784), (68, 41811), (73, 41838), (77, 41865),

Gene: Omnicron_61 Start: 41791, Stop: 42003, Start Num: 45

Candidate Starts for Omnicron_61:

(36, 41737), (Start: 45 @41791 has 70 MA's), (57, 41857), (59, 41869), (65, 41896), (73, 41950), (77, 41977),

Gene: Oscar_67 Start: 43187, Stop: 43396, Start Num: 45

Candidate Starts for Oscar_67:

(Start: 45 @43187 has 70 MA's), (50, 43208), (56, 43250), (59, 43268), (61, 43277), (66, 43301),

Gene: Padfoot_63 Start: 42792, Stop: 43007, Start Num: 43

Candidate Starts for Padfoot_63:

(Start: 43 @42792 has 87 MA's), (59, 42879), (61, 42888),

Gene: Padpat_66 Start: 42909, Stop: 43127, Start Num: 43

Candidate Starts for Padpat_66:

(Start: 43 @42909 has 87 MA's), (59, 42996), (61, 43005),

Gene: Paola_57 Start: 41282, Stop: 41494, Start Num: 45

Candidate Starts for Paola_57:

(Start: 45 @41282 has 70 MA's), (59, 41360), (64, 41384), (65, 41387), (69, 41420), (73, 41441), (77, 41468),

Gene: Parada_71 Start: 47994, Stop: 48194, Start Num: 47

Candidate Starts for Parada_71:

(31, 47910), (33, 47916), (41, 47970), (44, 47982), (Start: 47 @47994 has 10 MA's),

Gene: Peanam_66 Start: 43103, Stop: 43312, Start Num: 45

Candidate Starts for Peanam_66:

(21, 42923), (Start: 45 @43103 has 70 MA's), (59, 43184), (61, 43193),

Gene: Peel_63 Start: 42597, Stop: 42812, Start Num: 43

Candidate Starts for Peel_63:

(Start: 43 @42597 has 87 MA's), (59, 42684), (61, 42693),

Gene: Pharb_63 Start: 42257, Stop: 42469, Start Num: 45

Candidate Starts for Pharb_63:

(42, 42242), (Start: 45 @42257 has 70 MA's), (61, 42347),

Gene: PhelpsODU_65 Start: 42337, Stop: 42549, Start Num: 45

Candidate Starts for PhelpsODU_65:

(2, 41674), (3, 41698), (6, 41770), (14, 41923), (22, 42154), (Start: 45 @42337 has 70 MA's), (59, 42418), (61, 42427),

Gene: Phrank_67 Start: 42401, Stop: 42613, Start Num: 45

Candidate Starts for Phrank_67:

(2, 41735), (3, 41759), (6, 41834), (14, 41987), (22, 42218), (Start: 45 @42401 has 70 MA's), (59, 42482), (61, 42491),

Gene: Piatt_63 Start: 42792, Stop: 43007, Start Num: 43

Candidate Starts for Piatt_63:

(Start: 43 @42792 has 87 MA's), (59, 42879), (61, 42888),

Gene: Pisa1_63 Start: 43410, Stop: 43625, Start Num: 43

Candidate Starts for Pisa1_63:

(Start: 43 @43410 has 87 MA's), (59, 43497), (61, 43506),

Gene: Pixie_63 Start: 42430, Stop: 42642, Start Num: 45

Candidate Starts for Pixie_63:

(Start: 45 @42430 has 70 MA's), (61, 42520), (75, 42595),

Gene: Pokerus_63 Start: 42937, Stop: 43152, Start Num: 43

Candidate Starts for Pokerus_63:

(30, 42859), (Start: 43 @42937 has 87 MA's), (59, 43024), (61, 43033),

Gene: Pollux_56 Start: 40277, Stop: 40519, Start Num: 40

Candidate Starts for Pollux_56:

(Start: 40 @40277 has 6 MA's), (62, 40403),

Gene: Prithvi_65 Start: 43082, Stop: 43297, Start Num: 43

Candidate Starts for Prithvi_65:

(30, 43004), (Start: 43 @43082 has 87 MA's), (59, 43169), (61, 43178),

Gene: Psycho_57 Start: 39909, Stop: 40121, Start Num: 45

Candidate Starts for Psycho_57:

(Start: 45 @39909 has 70 MA's), (59, 39987), (64, 40011), (65, 40014), (68, 40041), (73, 40068),

Gene: QuincyRose_62 Start: 42817, Stop: 43032, Start Num: 43

Candidate Starts for QuincyRose_62:

(Start: 43 @42817 has 87 MA's), (59, 42904), (61, 42913),

Gene: Ramen_64 Start: 42442, Stop: 42657, Start Num: 43

Candidate Starts for Ramen_64:

(Start: 43 @42442 has 87 MA's), (59, 42529), (61, 42538),

Gene: Rando14_59 Start: 39518, Stop: 39730, Start Num: 45

Candidate Starts for Rando14_59:

(32, 39443), (34, 39452), (36, 39464), (Start: 45 @39518 has 70 MA's), (59, 39596), (64, 39620), (65, 39623), (73, 39677), (77, 39704),

Gene: Rapunzel97_65 Start: 42892, Stop: 43107, Start Num: 43

Candidate Starts for Rapunzel97_65:

(30, 42814), (Start: 43 @42892 has 87 MA's), (59, 42979), (61, 42988),

Gene: Richo_66 Start: 43084, Stop: 43293, Start Num: 45

Candidate Starts for Richo_66:

(21, 42904), (Start: 45 @43084 has 70 MA's), (59, 43165), (61, 43174),

Gene: Rosmarinus_63 Start: 42583, Stop: 42798, Start Num: 43

Candidate Starts for Rosmarinus_63:

(Start: 43 @42583 has 87 MA's), (59, 42670), (61, 42679),

Gene: SamuelLPlaqson_64 Start: 43328, Stop: 43543, Start Num: 43

Candidate Starts for SamuelLPlaqson_64:

(Start: 43 @43328 has 87 MA's), (59, 43415), (61, 43424),

Gene: Scarlett_68 Start: 43514, Stop: 43726, Start Num: 45

Candidate Starts for Scarlett_68:

(Start: 45 @43514 has 70 MA's), (50, 43535), (56, 43577), (59, 43595), (61, 43604), (66, 43628),

Gene: SgtBeansprout_52 Start: 39754, Stop: 39963, Start Num: 45

Candidate Starts for SgtBeansprout_52:

(Start: 45 @39754 has 70 MA's), (59, 39835), (61, 39844),

Gene: Shadow1_68 Start: 42852, Stop: 43064, Start Num: 45

Candidate Starts for Shadow1_68:

(Start: 45 @42852 has 70 MA's), (59, 42933), (61, 42942),

Gene: Shaobing_66 Start: 43121, Stop: 43330, Start Num: 45

Candidate Starts for Shaobing_66:

(21, 42941), (Start: 45 @43121 has 70 MA's), (59, 43202), (61, 43211),

Gene: ShedlockHolmes_65 Start: 42949, Stop: 43161, Start Num: 45

Candidate Starts for ShedlockHolmes_65:

(Start: 45 @42949 has 70 MA's), (61, 43039), (75, 43114),

Gene: ShiaSurprise_64 Start: 42792, Stop: 43007, Start Num: 43

Candidate Starts for ShiaSurprise_64:

(Start: 43 @42792 has 87 MA's), (59, 42879), (61, 42888),

Gene: Skog_217 Start: 141536, Stop: 141781, Start Num: 35

Candidate Starts for Skog_217:

(Start: 35 @141536 has 1 MA's), (51, 141623), (52, 141641), (60, 141668), (65, 141683), (67, 141701),

Gene: Slimphazie_64 Start: 42892, Stop: 43107, Start Num: 43

Candidate Starts for Slimphazie_64:

(30, 42814), (Start: 43 @42892 has 87 MA's), (59, 42979), (61, 42988),

Gene: SoSeph_58 Start: 41654, Stop: 41866, Start Num: 45

Candidate Starts for SoSeph_58:

(Start: 45 @41654 has 70 MA's), (59, 41732), (64, 41756), (65, 41759), (69, 41792), (73, 41813), (77, 41840),

Gene: Spock_63 Start: 42596, Stop: 42811, Start Num: 43

Candidate Starts for Spock_63:

(Start: 43 @42596 has 87 MA's), (59, 42683), (61, 42692),

Gene: Stinson_65 Start: 43220, Stop: 43435, Start Num: 43

Candidate Starts for Stinson_65:

(Start: 43 @43220 has 87 MA's), (59, 43307), (61, 43316),

Gene: Sulley_63 Start: 42656, Stop: 42871, Start Num: 43

Candidate Starts for Sulley_63:

(Start: 43 @42656 has 87 MA's), (59, 42743), (61, 42752),

Gene: Sunflower1121_69 Start: 42998, Stop: 43210, Start Num: 45

Candidate Starts for Sunflower1121_69:

(Start: 45 @42998 has 70 MA's), (59, 43079), (61, 43088),

Gene: Syra333_67 Start: 42711, Stop: 42923, Start Num: 45

Candidate Starts for Syra333_67:

(22, 42528), (Start: 45 @42711 has 70 MA's), (59, 42792), (61, 42801),

Gene: TClif_64 Start: 42546, Stop: 42758, Start Num: 45

Candidate Starts for TClif_64:

(Start: 45 @42546 has 70 MA's), (59, 42627), (61, 42636), (75, 42711),

Gene: Tachez_63 Start: 42440, Stop: 42655, Start Num: 43

Candidate Starts for Tachez_63:

(Start: 43 @42440 has 87 MA's), (59, 42527), (61, 42536),

Gene: TaiwanKao_66 Start: 43144, Stop: 43359, Start Num: 43

Candidate Starts for TaiwanKao_66:

(30, 43066), (Start: 43 @43144 has 87 MA's), (59, 43231), (61, 43240),

Gene: ThankyouJordi_56 Start: 40759, Stop: 41001, Start Num: 40

Candidate Starts for ThankyouJordi_56:

(20, 40612), (23, 40627), (24, 40636), (28, 40702), (Start: 40 @40759 has 6 MA's), (62, 40885),

Gene: Thyatira_60 Start: 43612, Stop: 43824, Start Num: 45

Candidate Starts for Thyatira_60:

(Start: 45 @43612 has 70 MA's), (59, 43690), (64, 43714), (65, 43717), (69, 43750), (73, 43771), (77, 43798),

Gene: Tierra_67 Start: 43212, Stop: 43424, Start Num: 45

Candidate Starts for Tierra_67:

(2, 42546), (3, 42570), (6, 42645), (14, 42798), (22, 43029), (Start: 45 @43212 has 70 MA's), (59, 43293), (61, 43302),

Gene: Tigress9_68 Start: 43028, Stop: 43240, Start Num: 45

Candidate Starts for Tigress9_68:

(22, 42845), (Start: 45 @43028 has 70 MA's), (59, 43109), (61, 43118), (76, 43202),

Gene: TingHuaYa_67 Start: 42388, Stop: 42606, Start Num: 43

Candidate Starts for TingHuaYa_67:

(25, 42253), (29, 42310), (Start: 43 @42388 has 87 MA's), (59, 42475), (61, 42484),

Gene: TiniBug_64 Start: 43324, Stop: 43539, Start Num: 43

Candidate Starts for TiniBug_64:

(Start: 43 @43324 has 87 MA's), (59, 43411), (61, 43420),

Gene: Tiri_64 Start: 42728, Stop: 42943, Start Num: 43

Candidate Starts for Tiri_64:

(Start: 43 @42728 has 87 MA's), (59, 42815), (61, 42824),

Gene: Topper_63 Start: 42595, Stop: 42810, Start Num: 43

Candidate Starts for Topper_63:

(Start: 43 @42595 has 87 MA's), (59, 42682), (61, 42691),

Gene: TreyKay_65 Start: 43082, Stop: 43297, Start Num: 43

Candidate Starts for TreyKay_65:
(30, 43004), (Start: 43 @43082 has 87 MA's), (59, 43169), (61, 43178),

Gene: TribelTrouble_64 Start: 43429, Stop: 43641, Start Num: 45
Candidate Starts for TribelTrouble_64:
(13, 43003), (22, 43246), (Start: 45 @43429 has 70 MA's), (61, 43519),

Gene: Trogglehumper_5 Start: 2263, Stop: 2457, Start Num: 48
Candidate Starts for Trogglehumper_5:
(Start: 48 @2263 has 1 MA's), (55, 2314), (58, 2332), (63, 2356),

Gene: TruffulaTree_64 Start: 42888, Stop: 43103, Start Num: 43
Candidate Starts for TruffulaTree_64:
(30, 42810), (Start: 43 @42888 has 87 MA's), (59, 42975), (61, 42984),

Gene: Twitch_63 Start: 42597, Stop: 42812, Start Num: 43
Candidate Starts for Twitch_63:
(Start: 43 @42597 has 87 MA's), (59, 42684), (61, 42693),

Gene: Unicorn_65 Start: 42337, Stop: 42549, Start Num: 45
Candidate Starts for Unicorn_65:
(2, 41674), (3, 41698), (6, 41770), (14, 41923), (22, 42154), (Start: 45 @42337 has 70 MA's), (59, 42418), (61, 42427),

Gene: Urkel_64 Start: 43328, Stop: 43543, Start Num: 43
Candidate Starts for Urkel_64:
(Start: 43 @43328 has 87 MA's), (59, 43415), (61, 43424),

Gene: Validus_68 Start: 43466, Stop: 43675, Start Num: 45
Candidate Starts for Validus_68:
(Start: 45 @43466 has 70 MA's), (59, 43547), (61, 43556), (75, 43631),

Gene: VanLee_109 Start: 57771, Stop: 57962, Start Num: 49
Candidate Starts for VanLee_109:
(Start: 49 @57771 has 8 MA's), (77, 57936),

Gene: Veliki_65 Start: 42859, Stop: 43077, Start Num: 43
Candidate Starts for Veliki_65:
(29, 42781), (Start: 43 @42859 has 87 MA's), (59, 42946), (61, 42955),

Gene: ViviJ_56 Start: 39373, Stop: 39585, Start Num: 45
Candidate Starts for ViviJ_56:
(32, 39298), (34, 39307), (36, 39319), (Start: 45 @39373 has 70 MA's), (50, 39391), (59, 39451), (64, 39475), (65, 39478), (68, 39505), (73, 39532), (78, 39580),

Gene: Waterfoul_59 Start: 41716, Stop: 41928, Start Num: 45
Candidate Starts for Waterfoul_59:
(Start: 45 @41716 has 70 MA's), (59, 41794), (64, 41818), (65, 41821), (69, 41854), (73, 41875), (77, 41902),

Gene: WelcomeAyanna_56 Start: 40906, Stop: 41148, Start Num: 40
Candidate Starts for WelcomeAyanna_56:
(20, 40759), (23, 40774), (24, 40783), (28, 40849), (Start: 40 @40906 has 6 MA's), (62, 41032),

Gene: WheatThin_71 Start: 47982, Stop: 48182, Start Num: 47

Candidate Starts for WheatThin_71:

(31, 47898), (33, 47904), (41, 47958), (44, 47970), (Start: 47 @47982 has 10 MA's),

Gene: Ximenita_69 Start: 43037, Stop: 43249, Start Num: 45

Candidate Starts for Ximenita_69:

(22, 42854), (Start: 45 @43037 has 70 MA's), (59, 43118), (61, 43127),

Gene: YoureAdopted_63 Start: 43008, Stop: 43223, Start Num: 43

Candidate Starts for YoureAdopted_63:

(30, 42930), (Start: 43 @43008 has 87 MA's), (59, 43095), (61, 43104),

Gene: Yunkel11_68 Start: 42904, Stop: 43122, Start Num: 43

Candidate Starts for Yunkel11_68:

(29, 42826), (Start: 43 @42904 has 87 MA's), (59, 42991), (61, 43000),

Gene: Zabiza_58 Start: 38745, Stop: 38960, Start Num: 43

Candidate Starts for Zabiza_58:

(Start: 43 @38745 has 87 MA's), (59, 38832), (61, 38841),

Gene: Zavala_66 Start: 43164, Stop: 43382, Start Num: 43

Candidate Starts for Zavala_66:

(29, 43086), (Start: 43 @43164 has 87 MA's), (59, 43251), (61, 43260),