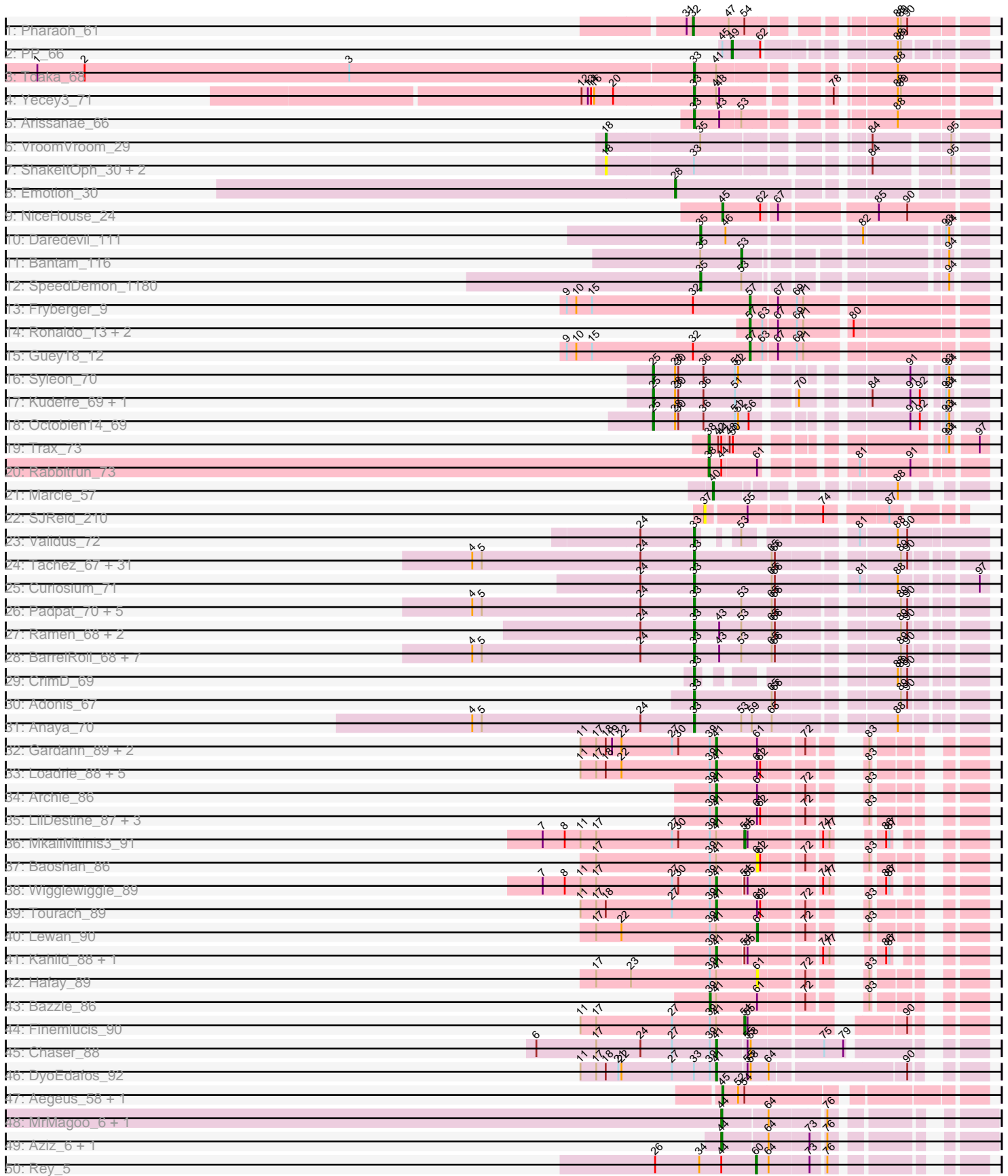


Pham 157714



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 157714 Report

This analysis was run 04/13/24 on database version 558.

Pham number 157714 has 118 members, 10 are drafts.

Phages represented in each track:

- Track 1 : Pharaoh_61
- Track 2 : PP_66
- Track 3 : Toaka_68
- Track 4 : Yecey3_71
- Track 5 : Arissanae_66
- Track 6 : VroomVroom_29
- Track 7 : ShakeltOph_30, JasmineDragon_30, MiniMommy_30
- Track 8 : Emotion_30
- Track 9 : NiceHouse_24
- Track 10 : Daredevil_111
- Track 11 : Bantam_116
- Track 12 : SpeedDemon_1180
- Track 13 : Fryberger_9
- Track 14 : Ronaldo_13, Ziko_14, Volt_13
- Track 15 : Guey18_12
- Track 16 : Syleon_70
- Track 17 : Kudrefre_69, Sephiroth_68
- Track 18 : Octobien14_69
- Track 19 : Trax_73
- Track 20 : Rabbitrun_73
- Track 21 : Marcie_57
- Track 22 : SJReid_210
- Track 23 : Validus_72
- Track 24 : Tachez_67, BGlluviae_67, Jarvi_67, Blizzard_67, Atiba_68, Llorens_67, Adephegia_67, Hyperbowlee_67, CaseJules_69, Homura_67, Spock_67, Rosmarinus_67, ShiaSurprise_68, Joy99_67, Boiiii_67, Durfee_67, Piatt_67, Capricorn_67, Peel_67, Belladonna_67, Padfoot_67, Topper_67, Dalmuri_67, Inky_67, Asayake_67, Jeckyll_67, Twitch_67, Lunahalos_67, AlishaPH_67, CREW_67, BEEST_67, Geraldini_70
- Track 25 : Curiosium_71
- Track 26 : Padpat_70, Emerson_69, Pokerus_67, QuincyRose_65, Beezoo_69, Ganymede_67
- Track 27 : Ramen_68, ActinUp_67, HedwigODU_67
- Track 28 : BarrelRoll_68, Rapunzel97_69, TruffulaTree_68, Slimphazie_68, Zavala_70, Mynx_69, Jayhawk_69, MeaningOfLife_68
- Track 29 : CrimD_69
- Track 30 : Adonis_67

- Track 31 : Anaya_70
- Track 32 : Gardann_89, Nicholasp3_89, Rumpelstiltskin_85
- Track 33 : Loadrie_88, Faith1_89, Zakai_90, Itos_89, Crossroads_89, Gabriela_89
- Track 34 : Archie_86
- Track 35 : LilDestine_87, GuuelaD_86, Douge_89, ZhongYanYuan_86
- Track 36 : MkaliMitinis3_91
- Track 37 : Baoshan_86
- Track 38 : Wigglewiggle_89
- Track 39 : Tourach_89
- Track 40 : Lewan_90
- Track 41 : Kahlid_88, Wilder_90
- Track 42 : Hafay_89
- Track 43 : Bazzle_86
- Track 44 : Finemlucis_90
- Track 45 : Chaser_88
- Track 46 : DyoEdafos_92
- Track 47 : Aegeus_58, Baudelaire_58
- Track 48 : MrMagoo_6, GardenSalsa_6
- Track 49 : Aziz_6, GenevaB15_6
- Track 50 : Rey_5
- Track 51 : Estes_6
- Track 52 : Nanosmite_6
- Track 53 : Nanosmite_5
- Track 54 : Jace_69

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

The start number called the most often in the published annotations is 33, it was called in 55 of the 108 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ActinUp_67, Adephegia_67, Adonis_67, AlishaPH_67, Anaya_70, Arissanae_66, Asayake_67, Atiba_68, BEEST_67, BGlluviae_67, BarrelRoll_68, Beezoo_69, Belladonna_67, Blizzard_67, Boiiii_67, CREW_67, Capricorn_67, CaseJules_69, CrimD_69, Curiosium_71, Dalmuri_67, Durfee_67, Emerson_69, Ganymede_67, Geraldini_70, HedwigODU_67, Homura_67, Hyperbowlee_67, Inky_67, Jarvi_67, Jayhawk_69, Jeckyll_67, Joy99_67, Llorens_67, Lunahalos_67, MeaningOfLife_68, Mynx_69, Padfoot_67, Padpat_70, Peel_67, Piatt_67, Pokerus_67, QuincyRose_65, Ramen_68, Rapunzel97_69, Rosmarinus_67, ShiaSurprise_68, Slimphazie_68, Spock_67, Tachez_67, Toaka_68, Topper_67, TruffulaTree_68, Twitch_67, Validus_72, Yecey3_71, Zavala_70,

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

- DyoEdafos_92, JasmineDragon_30, MiniMommy_30, ShakeltOph_30,

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

- Aegeus_58, Archie_86, Aziz_6, Bantam_116, Baoshan_86, Baudelaire_58, Bazzle_86, Chaser_88, Crossroads_89, Daredevil_111, Douge_89, Emotion_30, Estes_6, Faith1_89, Finemlucis_90, Fryberger_9, Gabriela_89, Gardann_89, GardenSalsa_6, GenevaB15_6, Guey18_12, GuuelaD_86, Hafay_89, Itos_89,

Jace_69, Kahlid_88, Kudrefre_69, Lewan_90, LilDestine_87, Loadrie_88, Marcie_57, MkaliMitinis3_91, MrMagoo_6, Nanosmite_5, Nanosmite_6, NiceHouse_24, Nicholasp3_89, Octobien14_69, PP_66, Pharaoh_61, Rabbitrun_73, Rey_5, Ronaldo_13, Rumpelstiltskin_85, SJReid_210, Sephiroth_68, SpeedDemon_1180, Syleon_70, Tourach_89, Trax_73, Volt_13, VroomVroom_29, Wigglewiggle_89, Wilder_90, Zakai_90, ZhongYanYuan_86, Ziko_14,

Summary by start number:

Start 18:

- Found in 15 of 118 (12.7%) of genes in pham
- Manual Annotations of this start: 1 of 108
- Called 26.7% of time when present
- Phage (with cluster) where this start called: JasmineDragon_30 (AZ4), MiniMommy_30 (AZ4), ShakeltOph_30 (AZ4), VroomVroom_29 (AZ4),

Start 25:

- Found in 4 of 118 (3.4%) of genes in pham
- Manual Annotations of this start: 4 of 108
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kudrefre_69 (DU1), Octobien14_69 (DU1), Sephiroth_68 (DU1), Syleon_70 (DU1),

Start 28:

- Found in 5 of 118 (4.2%) of genes in pham
- Manual Annotations of this start: 1 of 108
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Emotion_30 (AZ4),

Start 29:

- Found in 1 of 118 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 108
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nanosmite_6 (M3),

Start 32:

- Found in 3 of 118 (2.5%) of genes in pham
- Manual Annotations of this start: 1 of 108
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Pharaoh_61 (A12),

Start 33:

- Found in 61 of 118 (51.7%) of genes in pham
- Manual Annotations of this start: 55 of 108
- Called 93.4% of time when present
- Phage (with cluster) where this start called: ActinUp_67 (K1), Adephegia_67 (K1), Adonis_67 (K1), AlishaPH_67 (K1), Anaya_70 (K1), Arissanae_66 (A9), Asayake_67 (K1), Atiba_68 (K1), BEEST_67 (K1), BGlluviae_67 (K1), BarrelRoll_68 (K1), Beezoo_69 (K1), Belladonna_67 (K1), Blizzard_67 (K1), Boiiii_67 (K1), CREW_67 (K1), Capricorn_67 (K1), CaseJules_69 (K1), CrimD_69 (K1), Curiosium_71 (K1), Dalmuri_67 (K1), Durfee_67 (K1), Emerson_69 (K1), Ganymede_67 (K1), Geraldini_70 (K1), HedwigODU_67 (K1), Homura_67 (K1), Hyperbowlee_67 (K1), Inky_67 (K1), Jarvi_67 (K1), Jayhawk_69 (K1), Jeckyll_67 (K1), Joy99_67 (K1),

Llorens_67 (K1), Lunahalos_67 (K1), MeaningOfLife_68 (K1), Mynx_69 (K1), Padfoot_67 (K1), Padpat_70 (K1), Peel_67 (K1), Piatt_67 (K1), Pokerus_67 (K1), QuincyRose_65 (K1), Ramen_68 (K1), Rapunzel97_69 (K1), Rosmarinus_67 (K1), ShiaSurprise_68 (K1), Slimphazie_68 (K1), Spock_67 (K1), Tachez_67 (K1), Toaka_68 (A9), Topper_67 (K1), TruffulaTree_68 (K1), Twitch_67 (K1), Validus_72 (K1), Yecey3_71 (A9), Zavala_70 (K1),

Start 35:

- Found in 4 of 118 (3.4%) of genes in pham
- Manual Annotations of this start: 2 of 108
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Daredevil_111 (DL), SpeedDemon_1180 (DL),

Start 37:

- Found in 1 of 118 (0.8%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SJReid_210 (FC),

Start 38:

- Found in 2 of 118 (1.7%) of genes in pham
- Manual Annotations of this start: 2 of 108
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Rabbitrun_73 (DU2), Trax_73 (DU2),

Start 39:

- Found in 26 of 118 (22.0%) of genes in pham
- Manual Annotations of this start: 1 of 108
- Called 3.8% of time when present
- Phage (with cluster) where this start called: Bazzle_86 (L2),

Start 40:

- Found in 1 of 118 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 108
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Marcie_57 (EG),

Start 41:

- Found in 28 of 118 (23.7%) of genes in pham
- Manual Annotations of this start: 18 of 108
- Called 71.4% of time when present
- Phage (with cluster) where this start called: Archie_86 (L2), Chaser_88 (L4), Crossroads_89 (L2), Douge_89 (L4), DyoEdafos_92 (L4), Faith1_89 (L2), Gabriela_89 (L2), Gardann_89 (L2), GuuelaD_86 (L2), Itos_89 (L2), Kahlid_88 (L2), LilDestine_87 (L2), Loadrie_88 (L2), Nicholasp3_89 (L2), Rumpelstiltskin_85 (L2), Tourach_89 (L2), Wigglewiggles_89 (L2), Wilder_90 (L2), Zakai_90 (L2), ZhongYanYuan_86 (L2),

Start 44:

- Found in 9 of 118 (7.6%) of genes in pham
- Manual Annotations of this start: 6 of 108
- Called 66.7% of time when present

- Phage (with cluster) where this start called: Aziz_6 (M2), Estes_6 (M2), GardenSalsa_6 (M2), GenevaB15_6 (M2), MrMagoo_6 (M2), Nanosmite_5 (M3),

Start 45:

- Found in 5 of 118 (4.2%) of genes in pham
- Manual Annotations of this start: 4 of 108
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Aegeus_58 (L5), Baudelaire_58 (L5), Jace_69 (singleton), NiceHouse_24 (CE),

Start 49:

- Found in 1 of 118 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 108
- Called 100.0% of time when present
- Phage (with cluster) where this start called: PP_66 (A7),

Start 53:

- Found in 22 of 118 (18.6%) of genes in pham
- Manual Annotations of this start: 1 of 108
- Called 4.5% of time when present
- Phage (with cluster) where this start called: Bantam_116 (DL),

Start 54:

- Found in 9 of 118 (7.6%) of genes in pham
- Manual Annotations of this start: 2 of 108
- Called 22.2% of time when present
- Phage (with cluster) where this start called: Finemlucis_90 (L2), MkaliMitinis3_91 (L2),

Start 57:

- Found in 6 of 118 (5.1%) of genes in pham
- Manual Annotations of this start: 5 of 108
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Fryberger_9 (DP), Guey18_12 (DP), Ronaldo_13 (DP), Volt_13 (DP), Ziko_14 (DP),

Start 60:

- Found in 1 of 118 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 108
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Rey_5 (M2),

Start 61:

- Found in 21 of 118 (17.8%) of genes in pham
- Manual Annotations of this start: 1 of 108
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Baoshan_86 (L2), Hafay_89 (L2), Lewan_90 (L2),

Summary by clusters:

There are 18 clusters represented in this pham: DL, M3, A12, FC, EG, L4, CE, singleton, K1, L5, L2, A7, M2, A9, DU1, DU2, AZ4, DP,

Info for manual annotations of cluster A12:

- Start number 32 was manually annotated 1 time for cluster A12.

Info for manual annotations of cluster A7:

- Start number 49 was manually annotated 1 time for cluster A7.

Info for manual annotations of cluster A9:

- Start number 33 was manually annotated 3 times for cluster A9.

Info for manual annotations of cluster AZ4:

- Start number 18 was manually annotated 1 time for cluster AZ4.
- Start number 28 was manually annotated 1 time for cluster AZ4.

Info for manual annotations of cluster CE:

- Start number 45 was manually annotated 1 time for cluster CE.

Info for manual annotations of cluster DL:

- Start number 35 was manually annotated 2 times for cluster DL.
- Start number 53 was manually annotated 1 time for cluster DL.

Info for manual annotations of cluster DP:

- Start number 57 was manually annotated 5 times for cluster DP.

Info for manual annotations of cluster DU1:

- Start number 25 was manually annotated 4 times for cluster DU1.

Info for manual annotations of cluster DU2:

- Start number 38 was manually annotated 2 times for cluster DU2.

Info for manual annotations of cluster EG:

- Start number 40 was manually annotated 1 time for cluster EG.

Info for manual annotations of cluster K1:

- Start number 33 was manually annotated 52 times for cluster K1.

Info for manual annotations of cluster L2:

- Start number 39 was manually annotated 1 time for cluster L2.
- Start number 41 was manually annotated 16 times for cluster L2.
- Start number 54 was manually annotated 2 times for cluster L2.
- Start number 61 was manually annotated 1 time for cluster L2.

Info for manual annotations of cluster L4:

- Start number 41 was manually annotated 2 times for cluster L4.

Info for manual annotations of cluster L5:

- Start number 45 was manually annotated 2 times for cluster L5.

Info for manual annotations of cluster M2:

- Start number 44 was manually annotated 5 times for cluster M2.
- Start number 60 was manually annotated 1 time for cluster M2.

Info for manual annotations of cluster M3:

- Start number 29 was manually annotated 1 time for cluster M3.
- Start number 44 was manually annotated 1 time for cluster M3.

Gene Information:

Gene: ActinUp_67 Start: 43706, Stop: 43945, Start Num: 33

Candidate Starts for ActinUp_67:

(24, 43655), (Start: 33 @43706 has 55 MA's), (43, 43730), (Start: 53 @43751 has 1 MA's), (65, 43778), (66, 43781), (89, 43880), (90, 43886),

Gene: Adephagia_67 Start: 43743, Stop: 43982, Start Num: 33

Candidate Starts for Adephagia_67:

(4, 43533), (5, 43542), (24, 43692), (Start: 33 @43743 has 55 MA's), (65, 43815), (66, 43818), (89, 43917), (90, 43923),

Gene: Adonis_67 Start: 43978, Stop: 44217, Start Num: 33

Candidate Starts for Adonis_67:

(Start: 33 @43978 has 55 MA's), (65, 44050), (66, 44053), (89, 44152), (90, 44158),

Gene: Aegeus_58 Start: 40986, Stop: 41207, Start Num: 45

Candidate Starts for Aegeus_58:

(Start: 45 @40986 has 4 MA's), (52, 41001), (Start: 54 @41007 has 2 MA's),

Gene: AlishaPH_67 Start: 44004, Stop: 44243, Start Num: 33

Candidate Starts for AlishaPH_67:

(4, 43794), (5, 43803), (24, 43953), (Start: 33 @44004 has 55 MA's), (65, 44076), (66, 44079), (89, 44178), (90, 44184),

Gene: Anaya_70 Start: 44697, Stop: 44936, Start Num: 33

Candidate Starts for Anaya_70:

(4, 44487), (5, 44496), (24, 44646), (Start: 33 @44697 has 55 MA's), (Start: 53 @44742 has 1 MA's), (59, 44751), (65, 44769), (88, 44868),

Gene: Archie_86 Start: 57063, Stop: 57242, Start Num: 41

Candidate Starts for Archie_86:

(Start: 39 @57057 has 1 MA's), (Start: 41 @57063 has 18 MA's), (Start: 61 @57102 has 1 MA's), (72, 57141), (83, 57168),

Gene: Arissanae_66 Start: 41220, Stop: 40978, Start Num: 33

Candidate Starts for Arissanae_66:

(Start: 33 @41220 has 55 MA's), (43, 41196), (Start: 53 @41178 has 1 MA's), (88, 41067),

Gene: Asayake_67 Start: 44058, Stop: 44297, Start Num: 33

Candidate Starts for Asayake_67:

(4, 43848), (5, 43857), (24, 44007), (Start: 33 @44058 has 55 MA's), (65, 44130), (66, 44133), (89, 44232), (90, 44238),

Gene: Atiba_68 Start: 43706, Stop: 43945, Start Num: 33

Candidate Starts for Atiba_68:

(4, 43496), (5, 43505), (24, 43655), (Start: 33 @43706 has 55 MA's), (65, 43778), (66, 43781), (89, 43880), (90, 43886),

Gene: Aziz_6 Start: 2394, Stop: 2188, Start Num: 44
Candidate Starts for Aziz_6:
(Start: 44 @2394 has 6 MA's), (64, 2352), (73, 2316), (76, 2304),

Gene: BEEST_67 Start: 44058, Stop: 44297, Start Num: 33
Candidate Starts for BEEST_67:
(4, 43848), (5, 43857), (24, 44007), (Start: 33 @44058 has 55 MA's), (65, 44130), (66, 44133), (89, 44232), (90, 44238),

Gene: BGlluviae_67 Start: 43861, Stop: 44100, Start Num: 33
Candidate Starts for BGlluviae_67:
(4, 43651), (5, 43660), (24, 43810), (Start: 33 @43861 has 55 MA's), (65, 43933), (66, 43936), (89, 44035), (90, 44041),

Gene: Bantam_116 Start: 73048, Stop: 73236, Start Num: 53
Candidate Starts for Bantam_116:
(Start: 35 @73009 has 2 MA's), (Start: 53 @73048 has 1 MA's), (94, 73207),

Gene: Baoshan_86 Start: 57756, Stop: 57896, Start Num: 61
Candidate Starts for Baoshan_86:
(17, 57603), (Start: 39 @57711 has 1 MA's), (Start: 41 @57717 has 18 MA's), (Start: 61 @57756 has 1 MA's), (62, 57759), (72, 57795), (83, 57822),

Gene: BarrelRoll_68 Start: 44144, Stop: 44383, Start Num: 33
Candidate Starts for BarrelRoll_68:
(4, 43934), (5, 43943), (24, 44093), (Start: 33 @44144 has 55 MA's), (43, 44168), (Start: 53 @44189 has 1 MA's), (65, 44216), (66, 44219), (89, 44318), (90, 44324),

Gene: Baudelaire_58 Start: 40986, Stop: 41207, Start Num: 45
Candidate Starts for Baudelaire_58:
(Start: 45 @40986 has 4 MA's), (52, 41001), (Start: 54 @41007 has 2 MA's),

Gene: Bazzle_86 Start: 57613, Stop: 57798, Start Num: 39
Candidate Starts for Bazzle_86:
(Start: 39 @57613 has 1 MA's), (Start: 41 @57619 has 18 MA's), (Start: 61 @57658 has 1 MA's), (72, 57697), (83, 57724),

Gene: Beezoo_69 Start: 44656, Stop: 44895, Start Num: 33
Candidate Starts for Beezoo_69:
(4, 44446), (5, 44455), (24, 44605), (Start: 33 @44656 has 55 MA's), (Start: 53 @44701 has 1 MA's), (65, 44728), (66, 44731), (89, 44830), (90, 44836),

Gene: Belladonna_67 Start: 43861, Stop: 44100, Start Num: 33
Candidate Starts for Belladonna_67:
(4, 43651), (5, 43660), (24, 43810), (Start: 33 @43861 has 55 MA's), (65, 43933), (66, 43936), (89, 44035), (90, 44041),

Gene: Blizzard_67 Start: 44058, Stop: 44297, Start Num: 33
Candidate Starts for Blizzard_67:

(4, 43848), (5, 43857), (24, 44007), (Start: 33 @44058 has 55 MA's), (65, 44130), (66, 44133), (89, 44232), (90, 44238),

Gene: Boiiii_67 Start: 44060, Stop: 44299, Start Num: 33

Candidate Starts for Boiiii_67:

(4, 43850), (5, 43859), (24, 44009), (Start: 33 @44060 has 55 MA's), (65, 44132), (66, 44135), (89, 44234), (90, 44240),

Gene: CREW_67 Start: 43861, Stop: 44100, Start Num: 33

Candidate Starts for CREW_67:

(4, 43651), (5, 43660), (24, 43810), (Start: 33 @43861 has 55 MA's), (65, 43933), (66, 43936), (89, 44035), (90, 44041),

Gene: Capricorn_67 Start: 43861, Stop: 44100, Start Num: 33

Candidate Starts for Capricorn_67:

(4, 43651), (5, 43660), (24, 43810), (Start: 33 @43861 has 55 MA's), (65, 43933), (66, 43936), (89, 44035), (90, 44041),

Gene: CaseJules_69 Start: 44058, Stop: 44297, Start Num: 33

Candidate Starts for CaseJules_69:

(4, 43848), (5, 43857), (24, 44007), (Start: 33 @44058 has 55 MA's), (65, 44130), (66, 44133), (89, 44232), (90, 44238),

Gene: Chaser_88 Start: 56443, Stop: 56652, Start Num: 41

Candidate Starts for Chaser_88:

(6, 56272), (17, 56329), (24, 56371), (27, 56401), (Start: 39 @56437 has 1 MA's), (Start: 41 @56443 has 18 MA's), (55, 56470), (58, 56473), (75, 56536), (79, 56554),

Gene: CrimD_69 Start: 44683, Stop: 44892, Start Num: 33

Candidate Starts for CrimD_69:

(Start: 33 @44683 has 55 MA's), (88, 44824), (89, 44827), (90, 44833),

Gene: Crossroads_89 Start: 57560, Stop: 57739, Start Num: 41

Candidate Starts for Crossroads_89:

(11, 57431), (17, 57446), (Start: 18 @57455 has 1 MA's), (22, 57470), (Start: 39 @57554 has 1 MA's), (Start: 41 @57560 has 18 MA's), (Start: 61 @57599 has 1 MA's), (62, 57602), (83, 57665),

Gene: Curiosium_71 Start: 43377, Stop: 43622, Start Num: 33

Candidate Starts for Curiosium_71:

(24, 43326), (Start: 33 @43377 has 55 MA's), (65, 43449), (66, 43452), (81, 43521), (88, 43554), (97, 43614),

Gene: Dalmuri_67 Start: 43861, Stop: 44100, Start Num: 33

Candidate Starts for Dalmuri_67:

(4, 43651), (5, 43660), (24, 43810), (Start: 33 @43861 has 55 MA's), (65, 43933), (66, 43936), (89, 44035), (90, 44041),

Gene: Daredevil_111 Start: 69987, Stop: 70223, Start Num: 35

Candidate Starts for Daredevil_111:

(Start: 35 @69987 has 2 MA's), (46, 70011), (82, 70125), (93, 70191), (94, 70194),

Gene: Douge_89 Start: 56768, Stop: 56947, Start Num: 41

Candidate Starts for Douge_89:

(Start: 39 @56762 has 1 MA's), (Start: 41 @56768 has 18 MA's), (Start: 61 @56807 has 1 MA's), (62, 56810), (72, 56846), (83, 56873),

Gene: Durfee_67 Start: 44058, Stop: 44297, Start Num: 33

Candidate Starts for Durfee_67:

(4, 43848), (5, 43857), (24, 44007), (Start: 33 @44058 has 55 MA's), (65, 44130), (66, 44133), (89, 44232), (90, 44238),

Gene: DyoEdafos_92 Start: 57153, Stop: 57365, Start Num: 41

Candidate Starts for DyoEdafos_92:

(11, 57024), (17, 57039), (Start: 18 @57048 has 1 MA's), (21, 57060), (22, 57063), (27, 57111), (Start: 33 @57132 has 55 MA's), (Start: 39 @57147 has 1 MA's), (Start: 41 @57153 has 18 MA's), (55, 57180), (58, 57183), (64, 57198), (90, 57318),

Gene: Emerson_69 Start: 44178, Stop: 44417, Start Num: 33

Candidate Starts for Emerson_69:

(4, 43968), (5, 43977), (24, 44127), (Start: 33 @44178 has 55 MA's), (Start: 53 @44223 has 1 MA's), (65, 44250), (66, 44253), (89, 44352), (90, 44358),

Gene: Emotion_30 Start: 23341, Stop: 23598, Start Num: 28

Candidate Starts for Emotion_30:

(Start: 28 @23341 has 1 MA's),

Gene: Estes_6 Start: 2402, Stop: 2196, Start Num: 44

Candidate Starts for Estes_6:

(26, 2465), (34, 2423), (Start: 44 @2402 has 6 MA's), (64, 2360), (67, 2351), (76, 2312),

Gene: Faith1_89 Start: 57485, Stop: 57664, Start Num: 41

Candidate Starts for Faith1_89:

(11, 57356), (17, 57371), (Start: 18 @57380 has 1 MA's), (22, 57395), (Start: 39 @57479 has 1 MA's), (Start: 41 @57485 has 18 MA's), (Start: 61 @57524 has 1 MA's), (62, 57527), (83, 57590),

Gene: Finemlucis_90 Start: 58613, Stop: 58783, Start Num: 54

Candidate Starts for Finemlucis_90:

(11, 58460), (17, 58475), (27, 58547), (Start: 39 @58583 has 1 MA's), (Start: 41 @58589 has 18 MA's), (Start: 54 @58613 has 2 MA's), (55, 58616), (90, 58736),

Gene: Fryberger_9 Start: 2013, Stop: 1810, Start Num: 57

Candidate Starts for Fryberger_9:

(9, 2187), (10, 2178), (15, 2163), (Start: 32 @2067 has 1 MA's), (Start: 57 @2013 has 5 MA's), (67, 1989), (69, 1971), (71, 1965),

Gene: Gabriela_89 Start: 56831, Stop: 57010, Start Num: 41

Candidate Starts for Gabriela_89:

(11, 56702), (17, 56717), (Start: 18 @56726 has 1 MA's), (22, 56741), (Start: 39 @56825 has 1 MA's), (Start: 41 @56831 has 18 MA's), (Start: 61 @56870 has 1 MA's), (62, 56873), (83, 56936),

Gene: Ganymede_67 Start: 44084, Stop: 44323, Start Num: 33

Candidate Starts for Ganymede_67:

(4, 43874), (5, 43883), (24, 44033), (Start: 33 @44084 has 55 MA's), (Start: 53 @44129 has 1 MA's), (65, 44156), (66, 44159), (89, 44258), (90, 44264),

Gene: Gardann_89 Start: 57320, Stop: 57499, Start Num: 41

Candidate Starts for Gardann_89:

(11, 57191), (17, 57206), (Start: 18 @57215 has 1 MA's), (19, 57221), (22, 57230), (27, 57278), (30, 57284), (Start: 39 @57314 has 1 MA's), (Start: 41 @57320 has 18 MA's), (Start: 61 @57359 has 1 MA's), (72, 57398), (83, 57425),

Gene: GardenSalsa_6 Start: 2415, Stop: 2209, Start Num: 44

Candidate Starts for GardenSalsa_6:

(Start: 44 @2415 has 6 MA's), (64, 2373), (76, 2325),

Gene: GenevaB15_6 Start: 2394, Stop: 2188, Start Num: 44

Candidate Starts for GenevaB15_6:

(Start: 44 @2394 has 6 MA's), (64, 2352), (73, 2316), (76, 2304),

Gene: Geraldini_70 Start: 44740, Stop: 44979, Start Num: 33

Candidate Starts for Geraldini_70:

(4, 44530), (5, 44539), (24, 44689), (Start: 33 @44740 has 55 MA's), (65, 44812), (66, 44815), (89, 44914), (90, 44920),

Gene: Guey18_12 Start: 2707, Stop: 2504, Start Num: 57

Candidate Starts for Guey18_12:

(9, 2881), (10, 2872), (15, 2857), (Start: 32 @2761 has 1 MA's), (Start: 57 @2707 has 5 MA's), (63, 2695), (67, 2683), (69, 2665), (71, 2659),

Gene: GuuelaD_86 Start: 57444, Stop: 57623, Start Num: 41

Candidate Starts for GuuelaD_86:

(Start: 39 @57438 has 1 MA's), (Start: 41 @57444 has 18 MA's), (Start: 61 @57483 has 1 MA's), (62, 57486), (72, 57522), (83, 57549),

Gene: Hafay_89 Start: 57435, Stop: 57575, Start Num: 61

Candidate Starts for Hafay_89:

(17, 57282), (23, 57315), (Start: 39 @57390 has 1 MA's), (Start: 41 @57396 has 18 MA's), (Start: 61 @57435 has 1 MA's), (72, 57474), (83, 57501),

Gene: HedwigODU_67 Start: 43706, Stop: 43945, Start Num: 33

Candidate Starts for HedwigODU_67:

(24, 43655), (Start: 33 @43706 has 55 MA's), (43, 43730), (Start: 53 @43751 has 1 MA's), (65, 43778), (66, 43781), (89, 43880), (90, 43886),

Gene: Homura_67 Start: 43861, Stop: 44100, Start Num: 33

Candidate Starts for Homura_67:

(4, 43651), (5, 43660), (24, 43810), (Start: 33 @43861 has 55 MA's), (65, 43933), (66, 43936), (89, 44035), (90, 44041),

Gene: Hyperbowlee_67 Start: 44058, Stop: 44297, Start Num: 33

Candidate Starts for Hyperbowlee_67:

(4, 43848), (5, 43857), (24, 44007), (Start: 33 @44058 has 55 MA's), (65, 44130), (66, 44133), (89, 44232), (90, 44238),

Gene: Inky_67 Start: 43861, Stop: 44100, Start Num: 33

Candidate Starts for Inky_67:

(4, 43651), (5, 43660), (24, 43810), (Start: 33 @43861 has 55 MA's), (65, 43933), (66, 43936), (89, 44035), (90, 44041),

Gene: Itos_89 Start: 56391, Stop: 56570, Start Num: 41

Candidate Starts for Itos_89:

(11, 56262), (17, 56277), (Start: 18 @56286 has 1 MA's), (22, 56301), (Start: 39 @56385 has 1 MA's), (Start: 41 @56391 has 18 MA's), (Start: 61 @56430 has 1 MA's), (62, 56433), (83, 56496),

Gene: Jace_69 Start: 40976, Stop: 41194, Start Num: 45

Candidate Starts for Jace_69:

(Start: 45 @40976 has 4 MA's), (Start: 61 @41009 has 1 MA's), (68, 41030), (88, 41126), (96, 41180),

Gene: Jarvi_67 Start: 43861, Stop: 44100, Start Num: 33

Candidate Starts for Jarvi_67:

(4, 43651), (5, 43660), (24, 43810), (Start: 33 @43861 has 55 MA's), (65, 43933), (66, 43936), (89, 44035), (90, 44041),

Gene: JasmineDragon_30 Start: 22315, Stop: 22620, Start Num: 18

Candidate Starts for JasmineDragon_30:

(Start: 18 @22315 has 1 MA's), (Start: 33 @22396 has 55 MA's), (84, 22528), (95, 22591),

Gene: Jayhawk_69 Start: 44204, Stop: 44443, Start Num: 33

Candidate Starts for Jayhawk_69:

(4, 43994), (5, 44003), (24, 44153), (Start: 33 @44204 has 55 MA's), (43, 44228), (Start: 53 @44249 has 1 MA's), (65, 44276), (66, 44279), (89, 44378), (90, 44384),

Gene: Jeckyll_67 Start: 43861, Stop: 44100, Start Num: 33

Candidate Starts for Jeckyll_67:

(4, 43651), (5, 43660), (24, 43810), (Start: 33 @43861 has 55 MA's), (65, 43933), (66, 43936), (89, 44035), (90, 44041),

Gene: Joy99_67 Start: 43790, Stop: 44029, Start Num: 33

Candidate Starts for Joy99_67:

(4, 43580), (5, 43589), (24, 43739), (Start: 33 @43790 has 55 MA's), (65, 43862), (66, 43865), (89, 43964), (90, 43970),

Gene: Kahlid_88 Start: 57250, Stop: 57417, Start Num: 41

Candidate Starts for Kahlid_88:

(Start: 39 @57244 has 1 MA's), (Start: 41 @57250 has 18 MA's), (Start: 54 @57274 has 2 MA's), (55, 57277), (74, 57337), (77, 57343), (86, 57361), (87, 57364),

Gene: Kudfre_69 Start: 44258, Stop: 44521, Start Num: 25

Candidate Starts for Kudfre_69:

(Start: 25 @44258 has 4 MA's), (Start: 28 @44279 has 1 MA's), (30, 44282), (36, 44306), (51, 44336), (70, 44381), (84, 44429), (91, 44465), (92, 44474), (93, 44489), (94, 44492),

Gene: Lewan_90 Start: 57483, Stop: 57623, Start Num: 61

Candidate Starts for Lewan_90:

(17, 57330), (22, 57354), (Start: 39 @57438 has 1 MA's), (Start: 41 @57444 has 18 MA's), (Start: 61 @57483 has 1 MA's), (72, 57522), (83, 57549),

Gene: LilDestine_87 Start: 57157, Stop: 57336, Start Num: 41

Candidate Starts for LilDestine_87:

(Start: 39 @57151 has 1 MA's), (Start: 41 @57157 has 18 MA's), (Start: 61 @57196 has 1 MA's), (62, 57199), (72, 57235), (83, 57262),

Gene: Llorens_67 Start: 43861, Stop: 44100, Start Num: 33

Candidate Starts for Llorens_67:

(4, 43651), (5, 43660), (24, 43810), (Start: 33 @43861 has 55 MA's), (65, 43933), (66, 43936), (89, 44035), (90, 44041),

Gene: Loadrie_88 Start: 57652, Stop: 57831, Start Num: 41

Candidate Starts for Loadrie_88:

(11, 57523), (17, 57538), (Start: 18 @57547 has 1 MA's), (22, 57562), (Start: 39 @57646 has 1 MA's), (Start: 41 @57652 has 18 MA's), (Start: 61 @57691 has 1 MA's), (62, 57694), (83, 57757),

Gene: Lunahalos_67 Start: 43861, Stop: 44100, Start Num: 33

Candidate Starts for Lunahalos_67:

(4, 43651), (5, 43660), (24, 43810), (Start: 33 @43861 has 55 MA's), (65, 43933), (66, 43936), (89, 44035), (90, 44041),

Gene: Marcie_57 Start: 37372, Stop: 37181, Start Num: 40

Candidate Starts for Marcie_57:

(Start: 40 @37372 has 1 MA's), (88, 37240),

Gene: MeaningOfLife_68 Start: 44613, Stop: 44852, Start Num: 33

Candidate Starts for MeaningOfLife_68:

(4, 44403), (5, 44412), (24, 44562), (Start: 33 @44613 has 55 MA's), (43, 44637), (Start: 53 @44658 has 1 MA's), (65, 44685), (66, 44688), (89, 44787), (90, 44793),

Gene: MiniMommy_30 Start: 22316, Stop: 22621, Start Num: 18

Candidate Starts for MiniMommy_30:

(Start: 18 @22316 has 1 MA's), (Start: 33 @22397 has 55 MA's), (84, 22529), (95, 22592),

Gene: MkaliMitinis3_91 Start: 57639, Stop: 57782, Start Num: 54

Candidate Starts for MkaliMitinis3_91:

(7, 57450), (8, 57471), (11, 57486), (17, 57501), (27, 57573), (30, 57579), (Start: 39 @57609 has 1 MA's), (Start: 41 @57615 has 18 MA's), (Start: 54 @57639 has 2 MA's), (55, 57642), (74, 57702), (77, 57708), (86, 57726), (87, 57729),

Gene: MrMagoo_6 Start: 2415, Stop: 2209, Start Num: 44

Candidate Starts for MrMagoo_6:

(Start: 44 @2415 has 6 MA's), (64, 2373), (76, 2325),

Gene: Mynx_69 Start: 44473, Stop: 44712, Start Num: 33

Candidate Starts for Mynx_69:

(4, 44263), (5, 44272), (24, 44422), (Start: 33 @44473 has 55 MA's), (43, 44497), (Start: 53 @44518 has 1 MA's), (65, 44545), (66, 44548), (89, 44647), (90, 44653),

Gene: Nanosmite_6 Start: 2681, Stop: 2448, Start Num: 29

Candidate Starts for Nanosmite_6:

(Start: 29 @2681 has 1 MA's), (Start: 54 @2624 has 2 MA's), (55, 2621), (78, 2564), (88, 2519),

Gene: Nanosmite_5 Start: 2451, Stop: 2248, Start Num: 44

Candidate Starts for Nanosmite_5:

(26, 2514), (34, 2472), (Start: 44 @2451 has 6 MA's), (Start: 57 @2427 has 5 MA's),

Gene: NiceHouse_24 Start: 11340, Stop: 11110, Start Num: 45

Candidate Starts for NiceHouse_24:

(Start: 45 @11340 has 4 MA's), (62, 11304), (67, 11292), (85, 11208), (90, 11181),

Gene: Nicholasp3_89 Start: 57320, Stop: 57499, Start Num: 41

Candidate Starts for Nicholasp3_89:

(11, 57191), (17, 57206), (Start: 18 @57215 has 1 MA's), (19, 57221), (22, 57230), (27, 57278), (30, 57284), (Start: 39 @57314 has 1 MA's), (Start: 41 @57320 has 18 MA's), (Start: 61 @57359 has 1 MA's), (72, 57398), (83, 57425),

Gene: Octobien14_69 Start: 44537, Stop: 44797, Start Num: 25

Candidate Starts for Octobien14_69:

(Start: 25 @44537 has 4 MA's), (Start: 28 @44558 has 1 MA's), (30, 44561), (36, 44585), (51, 44615), (52, 44618), (56, 44627), (91, 44741), (92, 44750), (93, 44765), (94, 44768),

Gene: PP_66 Start: 45311, Stop: 45114, Start Num: 49

Candidate Starts for PP_66:

(Start: 45 @45320 has 4 MA's), (Start: 49 @45311 has 1 MA's), (62, 45284), (88, 45182), (89, 45179),

Gene: Padfoot_67 Start: 44058, Stop: 44297, Start Num: 33

Candidate Starts for Padfoot_67:

(4, 43848), (5, 43857), (24, 44007), (Start: 33 @44058 has 55 MA's), (65, 44130), (66, 44133), (89, 44232), (90, 44238),

Gene: Padpat_70 Start: 44178, Stop: 44417, Start Num: 33

Candidate Starts for Padpat_70:

(4, 43968), (5, 43977), (24, 44127), (Start: 33 @44178 has 55 MA's), (Start: 53 @44223 has 1 MA's), (65, 44250), (66, 44253), (89, 44352), (90, 44358),

Gene: Peel_67 Start: 43863, Stop: 44102, Start Num: 33

Candidate Starts for Peel_67:

(4, 43653), (5, 43662), (24, 43812), (Start: 33 @43863 has 55 MA's), (65, 43935), (66, 43938), (89, 44037), (90, 44043),

Gene: Pharaoh_61 Start: 40405, Stop: 40172, Start Num: 32

Candidate Starts for Pharaoh_61:

(31, 40411), (Start: 32 @40405 has 1 MA's), (47, 40372), (Start: 54 @40357 has 2 MA's), (88, 40249), (89, 40246), (90, 40240),

Gene: Piatt_67 Start: 44058, Stop: 44297, Start Num: 33

Candidate Starts for Piatt_67:

(4, 43848), (5, 43857), (24, 44007), (Start: 33 @44058 has 55 MA's), (65, 44130), (66, 44133), (89, 44232), (90, 44238),

Gene: Pokerus_67 Start: 44203, Stop: 44442, Start Num: 33

Candidate Starts for Pokerus_67:

(4, 43993), (5, 44002), (24, 44152), (Start: 33 @44203 has 55 MA's), (Start: 53 @44248 has 1 MA's), (65, 44275), (66, 44278), (89, 44377), (90, 44383),

Gene: QuincyRose_65 Start: 44084, Stop: 44323, Start Num: 33

Candidate Starts for QuincyRose_65:

(4, 43874), (5, 43883), (24, 44033), (Start: 33 @44084 has 55 MA's), (Start: 53 @44129 has 1 MA's), (65, 44156), (66, 44159), (89, 44258), (90, 44264),

Gene: Rabbitrun_73 Start: 44915, Stop: 45124, Start Num: 38

Candidate Starts for Rabbitrun_73:

(Start: 38 @44915 has 2 MA's), (Start: 44 @44927 has 6 MA's), (Start: 61 @44957 has 1 MA's), (81, 45020), (91, 45065),

Gene: Ramen_68 Start: 43708, Stop: 43947, Start Num: 33

Candidate Starts for Ramen_68:

(24, 43657), (Start: 33 @43708 has 55 MA's), (43, 43732), (Start: 53 @43753 has 1 MA's), (65, 43780), (66, 43783), (89, 43882), (90, 43888),

Gene: Rapunzel97_69 Start: 44159, Stop: 44398, Start Num: 33

Candidate Starts for Rapunzel97_69:

(4, 43949), (5, 43958), (24, 44108), (Start: 33 @44159 has 55 MA's), (43, 44183), (Start: 53 @44204 has 1 MA's), (65, 44231), (66, 44234), (89, 44333), (90, 44339),

Gene: Rey_5 Start: 2370, Stop: 2203, Start Num: 60

Candidate Starts for Rey_5:

(26, 2466), (34, 2424), (Start: 44 @2403 has 6 MA's), (Start: 60 @2370 has 1 MA's), (64, 2358), (73, 2322), (76, 2310),

Gene: Ronaldo_13 Start: 3139, Stop: 2936, Start Num: 57

Candidate Starts for Ronaldo_13:

(Start: 57 @3139 has 5 MA's), (63, 3127), (67, 3115), (69, 3097), (71, 3091), (80, 3052),

Gene: Rosmarinus_67 Start: 43849, Stop: 44088, Start Num: 33

Candidate Starts for Rosmarinus_67:

(4, 43639), (5, 43648), (24, 43798), (Start: 33 @43849 has 55 MA's), (65, 43921), (66, 43924), (89, 44023), (90, 44029),

Gene: Rumpelstiltskin_85 Start: 57113, Stop: 57292, Start Num: 41

Candidate Starts for Rumpelstiltskin_85:

(11, 56984), (17, 56999), (Start: 18 @57008 has 1 MA's), (19, 57014), (22, 57023), (27, 57071), (30, 57077), (Start: 39 @57107 has 1 MA's), (Start: 41 @57113 has 18 MA's), (Start: 61 @57152 has 1 MA's), (72, 57191), (83, 57218),

Gene: SJReid_210 Start: 135453, Stop: 135656, Start Num: 37

Candidate Starts for SJReid_210:

(37, 135453), (55, 135489), (74, 135549), (87, 135600),

Gene: Sephiroth_68 Start: 44430, Stop: 44693, Start Num: 25

Candidate Starts for Sephiroth_68:

(Start: 25 @44430 has 4 MA's), (Start: 28 @44451 has 1 MA's), (30, 44454), (36, 44478), (51, 44508), (70, 44553), (84, 44601), (91, 44637), (92, 44646), (93, 44661), (94, 44664),

Gene: ShakeltOph_30 Start: 22315, Stop: 22620, Start Num: 18

Candidate Starts for ShakeltOph_30:

(Start: 18 @22315 has 1 MA's), (Start: 33 @22396 has 55 MA's), (84, 22528), (95, 22591),

Gene: ShiaSurprise_68 Start: 44058, Stop: 44297, Start Num: 33

Candidate Starts for ShiaSurprise_68:

(4, 43848), (5, 43857), (24, 44007), (Start: 33 @44058 has 55 MA's), (65, 44130), (66, 44133), (89, 44232), (90, 44238),

Gene: Slimphazie_68 Start: 44159, Stop: 44398, Start Num: 33

Candidate Starts for Slimphazie_68:

(4, 43949), (5, 43958), (24, 44108), (Start: 33 @44159 has 55 MA's), (43, 44183), (Start: 53 @44204 has 1 MA's), (65, 44231), (66, 44234), (89, 44333), (90, 44339),

Gene: SpeedDemon_1180 Start: 76063, Stop: 76290, Start Num: 35

Candidate Starts for SpeedDemon_1180:

(Start: 35 @76063 has 2 MA's), (Start: 53 @76102 has 1 MA's), (94, 76261),

Gene: Spock_67 Start: 43862, Stop: 44101, Start Num: 33

Candidate Starts for Spock_67:

(4, 43652), (5, 43661), (24, 43811), (Start: 33 @43862 has 55 MA's), (65, 43934), (66, 43937), (89, 44036), (90, 44042),

Gene: Syleon_70 Start: 44371, Stop: 44631, Start Num: 25

Candidate Starts for Syleon_70:

(Start: 25 @44371 has 4 MA's), (Start: 28 @44392 has 1 MA's), (30, 44395), (36, 44419), (51, 44449), (52, 44452), (91, 44575), (93, 44599), (94, 44602),

Gene: Tachez_67 Start: 43706, Stop: 43945, Start Num: 33

Candidate Starts for Tachez_67:

(4, 43496), (5, 43505), (24, 43655), (Start: 33 @43706 has 55 MA's), (65, 43778), (66, 43781), (89, 43880), (90, 43886),

Gene: Toaka_68 Start: 40924, Stop: 40682, Start Num: 33

Candidate Starts for Toaka_68:

(1, 41545), (2, 41500), (3, 41248), (Start: 33 @40924 has 55 MA's), (Start: 41 @40903 has 18 MA's), (88, 40771),

Gene: Topper_67 Start: 43861, Stop: 44100, Start Num: 33

Candidate Starts for Topper_67:

(4, 43651), (5, 43660), (24, 43810), (Start: 33 @43861 has 55 MA's), (65, 43933), (66, 43936), (89, 44035), (90, 44041),

Gene: Tourach_89 Start: 58025, Stop: 58204, Start Num: 41

Candidate Starts for Tourach_89:

(11, 57896), (17, 57911), (Start: 18 @57920 has 1 MA's), (27, 57983), (Start: 39 @58019 has 1 MA's), (Start: 41 @58025 has 18 MA's), (Start: 61 @58064 has 1 MA's), (62, 58067), (72, 58103), (83, 58130),

Gene: Trax_73 Start: 45629, Stop: 45832, Start Num: 38

Candidate Starts for Trax_73:

(Start: 38 @45629 has 2 MA's), (42, 45638), (Start: 44 @45641 has 6 MA's), (48, 45647), (50, 45650), (93, 45800), (94, 45803), (97, 45824),

Gene: TruffulaTree_68 Start: 44155, Stop: 44394, Start Num: 33

Candidate Starts for TruffulaTree_68:

(4, 43945), (5, 43954), (24, 44104), (Start: 33 @44155 has 55 MA's), (43, 44179), (Start: 53 @44200 has 1 MA's), (65, 44227), (66, 44230), (89, 44329), (90, 44335),

Gene: Twitch_67 Start: 43863, Stop: 44102, Start Num: 33

Candidate Starts for Twitch_67:

(4, 43653), (5, 43662), (24, 43812), (Start: 33 @43863 has 55 MA's), (65, 43935), (66, 43938), (89, 44037), (90, 44043),

Gene: Validus_72 Start: 44730, Stop: 44951, Start Num: 33

Candidate Starts for Validus_72:

(24, 44679), (Start: 33 @44730 has 55 MA's), (Start: 53 @44748 has 1 MA's), (81, 44838), (88, 44871), (90, 44880),

Gene: Volt_13 Start: 3139, Stop: 2936, Start Num: 57

Candidate Starts for Volt_13:

(Start: 57 @3139 has 5 MA's), (63, 3127), (67, 3115), (69, 3097), (71, 3091), (80, 3052),

Gene: VroomVroom_29 Start: 22410, Stop: 22715, Start Num: 18

Candidate Starts for VroomVroom_29:

(Start: 18 @22410 has 1 MA's), (Start: 35 @22497 has 2 MA's), (84, 22623), (95, 22686),

Gene: Wigglewigggle_89 Start: 57408, Stop: 57575, Start Num: 41

Candidate Starts for Wigglewigggle_89:

(7, 57243), (8, 57264), (11, 57279), (17, 57294), (27, 57366), (30, 57372), (Start: 39 @57402 has 1 MA's), (Start: 41 @57408 has 18 MA's), (Start: 54 @57432 has 2 MA's), (55, 57435), (74, 57495), (77, 57501), (86, 57519), (87, 57522),

Gene: Wilder_90 Start: 57250, Stop: 57417, Start Num: 41

Candidate Starts for Wilder_90:

(Start: 39 @57244 has 1 MA's), (Start: 41 @57250 has 18 MA's), (Start: 54 @57274 has 2 MA's), (55, 57277), (74, 57337), (77, 57343), (86, 57361), (87, 57364),

Gene: Yecey3_71 Start: 41130, Stop: 40897, Start Num: 33

Candidate Starts for Yecey3_71:

(12, 41235), (13, 41229), (14, 41226), (16, 41223), (20, 41205), (Start: 33 @41130 has 55 MA's), (Start: 41 @41109 has 18 MA's), (43, 41106), (78, 41022), (88, 40977), (89, 40974),

Gene: Zakai_90 Start: 57893, Stop: 58072, Start Num: 41

Candidate Starts for Zakai_90:

(11, 57764), (17, 57779), (Start: 18 @57788 has 1 MA's), (22, 57803), (Start: 39 @57887 has 1 MA's), (Start: 41 @57893 has 18 MA's), (Start: 61 @57932 has 1 MA's), (62, 57935), (83, 57998),

Gene: Zavala_70 Start: 44433, Stop: 44672, Start Num: 33

Candidate Starts for Zavala_70:

(4, 44223), (5, 44232), (24, 44382), (Start: 33 @44433 has 55 MA's), (43, 44457), (Start: 53 @44478 has 1 MA's), (65, 44505), (66, 44508), (89, 44607), (90, 44613),

Gene: ZhongYanYuan_86 Start: 57300, Stop: 57479, Start Num: 41

Candidate Starts for ZhongYanYuan_86:

(Start: 39 @57294 has 1 MA's), (Start: 41 @57300 has 18 MA's), (Start: 61 @57339 has 1 MA's), (62, 57342), (72, 57378), (83, 57405),

Gene: Ziko_14 Start: 3153, Stop: 2950, Start Num: 57

Candidate Starts for Ziko_14:

(Start: 57 @3153 has 5 MA's), (63, 3141), (67, 3129), (69, 3111), (71, 3105), (80, 3066),