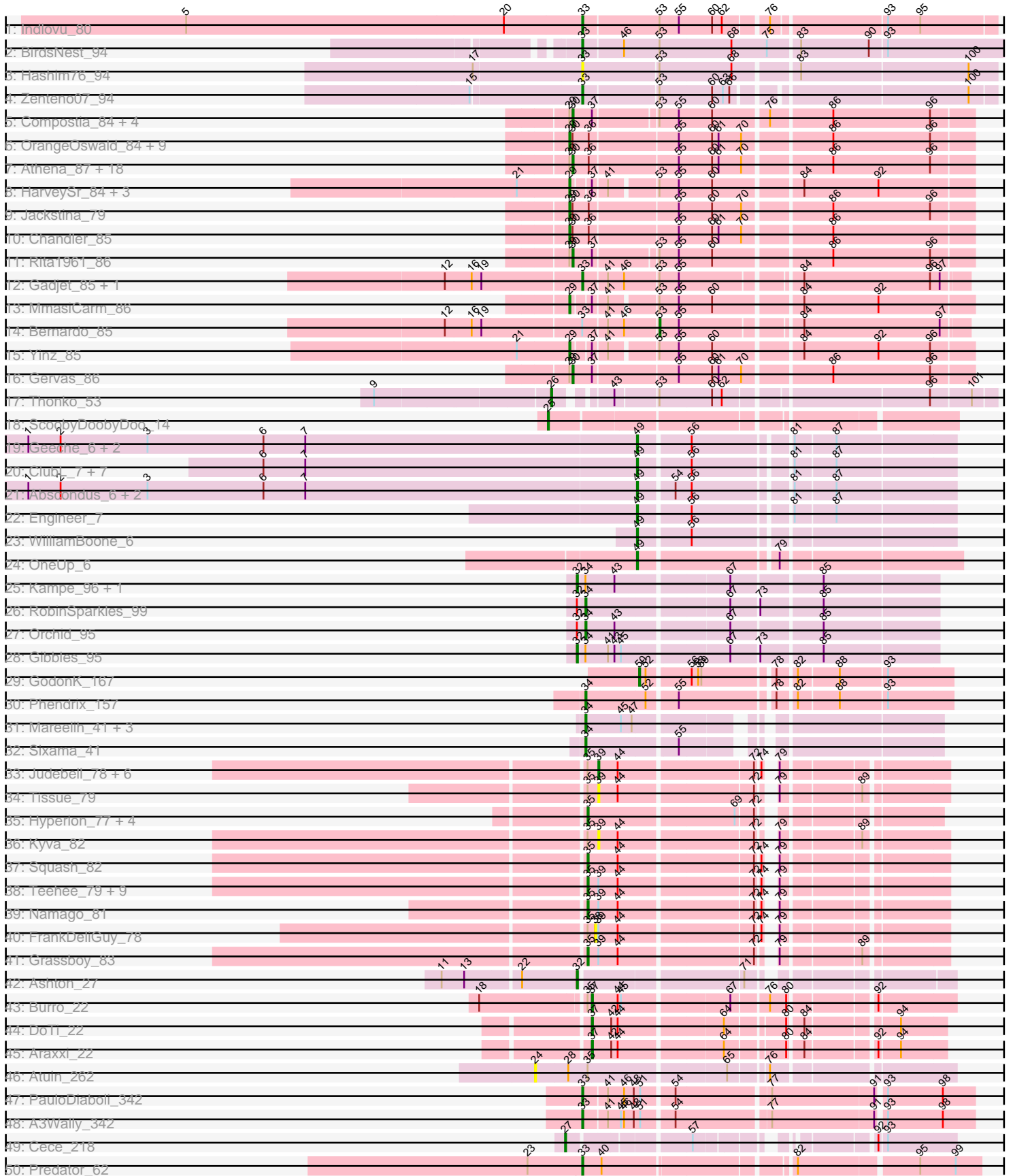


Pham 193840



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 193840 Report

This analysis was run 11/02/24 on database version 579.

Pham number 193840 has 125 members, 17 are drafts.

Phages represented in each track:

- Track 1 : Indlovu_80
- Track 2 : BirdsNest_94
- Track 3 : Hashim76_94
- Track 4 : Zenteno07_94
- Track 5 : Compostia_84, ChaChing_85, Philly_84, GlenHope_86, Halfpint_84
- Track 6 : OrangeOswald_84, Ben11_85, Kronus_85, Audrey_85, LestyG_83, Phayeta_88, Mortcellus_85, Baloo_84, Corofin_85, RomaT_85
- Track 7 : Athena_87, RagingRooster_84, Phlyer_85, Abinghost_85, Heathcliff_85, SynergyX_85, Akoma_85, Yahalom_83, SlippinJimmy_88, Nozo_85, Briakila_85, Devonte_83, Deenasa_85, Daisy_84, Phaedrus_80, Kamiyu_85, Casbah_85, Obutu_87, Tydolla_81
- Track 8 : HarveySr_84, Marley1013_86, Morty007_84, Neos5_85
- Track 9 : Jackstina_79
- Track 10 : Chandler_85
- Track 11 : Rita1961_86
- Track 12 : Gadget_85, Pipefish_86
- Track 13 : MmasiCarm_86
- Track 14 : Bernardo_85
- Track 15 : Yinz_85
- Track 16 : Gervas_86
- Track 17 : Thonko_53
- Track 18 : ScoobyDoobyDoo_14
- Track 19 : Geeche_6, Bachita_8, PhinkBoden_8
- Track 20 : ClubL_7, Toniann_7, Norvs_7, Aphelion_7, Miskis_8, Smoothie_7, Lozinak_7, Cucurbita_7
- Track 21 : Abscondus_6, Dusty_6, Culver_6
- Track 22 : Engineer_7
- Track 23 : WilliamBoone_6
- Track 24 : OneUp_6
- Track 25 : Kampe_96, PatrickStar_96
- Track 26 : RobinSparkles_99
- Track 27 : Orchid_95
- Track 28 : Gibbles_95
- Track 29 : GodonK_167
- Track 30 : Phendrix_157
- Track 31 : Mareelih_41, Boopy_43, Forza_42, BlueNGold_41
- Track 32 : Sixama_41

- Track 33 : Judebell_78, DonaldDuck_80, Wayne3_80, Rudy_76, BabyDotz_77, Zagie_80, Sillytadpoles_81
- Track 34 : Tissue_79
- Track 35 : Hyperion_77, Blab_75, Mashley_79, AluminumJesus_75, Gazebo_79
- Track 36 : Kyva_82
- Track 37 : Squash_82
- Track 38 : Teehee_79, Jehoshaphat_80, Casend_79, Viceroy_77, Phabia_78, StrawberryJamm_84, Lonelysoil_76, Llemily_80, Quammi_77, Wheelie_78
- Track 39 : Namago_81
- Track 40 : FrankDeliGuy_78
- Track 41 : Grassboy_83
- Track 42 : Ashton_27
- Track 43 : Burro_22
- Track 44 : DoTi_22
- Track 45 : Araxxi_22
- Track 46 : Atuin_262
- Track 47 : PauloDiaboli_342
- Track 48 : A3Wally_342
- Track 49 : Cece_218
- Track 50 : Predator_62
- Track 51 : Oaker_62
- Track 52 : AddiRose_74
- Track 53 : Serenabean_74
- Track 54 : Daddyjeff_75
- Track 55 : Aegeus_72, Baudelaire_72

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

The start number called the most often in the published annotations is 30, it was called in 25 of the 108 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abinghost_85, Akoma_85, Athena_87, Briakila_85, Casbah_85, ChaChing_85, Compostia_84, Daisy_84, Deenasa_85, Devonte_83, Gervas_86, GlenHope_86, Halfpint_84, Heathcliff_85, Kamiyu_85, Nozo_85, Obutu_87, Phaedrus_80, Philly_84, Phlyer_85, RagingRooster_84, Rita1961_86, SlippinJimmy_88, SynergyX_85, Tydolla_81, Yahalom_83,

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

- Audrey_85, Baloo_84, Ben11_85, Chandler_85, Corofin_85, Jackstina_79, Kronus_85, LestyG_83, Mortcellus_85, OrangeOswald_84, Phayeta_88, RomaT_85,

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

- A3Wally_342, Abscondus_6, AddiRose_74, Aegeus_72, AluminumJesus_75, Aphelion_7, Araxxi_22, Ashton_27, Atuin_262, BabyDotz_77, Bachita_8, Baudelaire_72, Bernardo_85, BirdsNest_94, Blab_75, BlueNGold_41, Boopy_43, Burro_22, Casend_79, Cece_218, ClubL_7, Cucurbita_7, Culver_6, Daddyjeff_75, DoTi_22, DonaldDuck_80, Dusty_6, Engineer_7, Forza_42, FrankDeliGuy_78, Gadget_85, Gazebo_79, Geeche_6, Gibbles_95, GodonK_167, Grassboy_83, HarveySr_84, Hashim76_94, Hyperion_77, Indlovu_80, Jehoshaphat_80,

Judebell_78, Kampe_96, Kyva_82, Llemily_80, Lonelysoil_76, Lozinak_7, Mareelih_41, Marley1013_86, Mashley_79, Miskis_8, MmasiCarm_86, Morty007_84, Namago_81, Neos5_85, Norvs_7, Oaker_62, OneUp_6, Orchid_95, PatrickStar_96, PauloDiaboli_342, Phabia_78, Phendrix_157, PhinkBoden_8, Pipefish_86, Predator_62, Quammi_77, RobinSparkles_99, Rudy_76, ScoobyDoobyDoo_14, Serenabean_74, Sillytadpoles_81, Sixama_41, Smoothie_7, Squash_82, StrawberryJamm_84, Teehee_79, Thonko_53, Tissue_79, Toniann_7, Viceroy_77, Wayne3_80, Wheelie_78, WilliamBoone_6, Yinz_85, Zagie_80, Zenteno07_94,

Summary by start number:

Start 24:

- Found in 1 of 125 (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: Atuin_262 (FC),

Start 25:

- Found in 1 of 125 (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: ScoobyDoobyDoo_14 (C2),

Start 26:

- Found in 1 of 125 (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: Thonko_53 (B8),

Start 27:

- Found in 1 of 125 (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: Cece_218 (GD3),

Start 29:

- Found in 44 of 125 (35.2%) of genes in pham
- Manual Annotations of this start: 17 of 108
- Called 40.9% of time when present
- Phage (with cluster) where this start called: Audrey_85 (B3), Baloo_84 (B3), Ben11_85 (B3), Chandler_85 (B3), Corofin_85 (B3), HarveySr_84 (B3), Jackstina_79 (B3), Kronus_85 (B3), LestyG_83 (B3), Marley1013_86 (B3), MmasiCarm_86 (B3), Mortcellus_85 (B3), Morty007_84 (B3), Neos5_85 (B3), OrangeOswald_84 (B3), Phayeta_88 (B3), RomaT_85 (B3), Yinz_85 (B3),

Start 30:

- Found in 38 of 125 (30.4%) of genes in pham
- Manual Annotations of this start: 25 of 108
- Called 68.4% of time when present
- Phage (with cluster) where this start called: Abinghost_85 (B3), Akoma_85 (B3), Athena_87 (B3), Briakila_85 (B3), Casbah_85 (B3), ChaChing_85 (B3), Compostia_84 (B3), Daisy_84 (B3), Deenasa_85 (B3), Devonte_83 (B3), Gervas_86 (B3), GlenHope_86 (B3), Halfpint_84 (B3), Heathcliff_85 (B3), Kamiyu_85 (B3),

Nozo_85 (B3), Obutu_87 (B3), Phaedrus_80 (B3), Philly_84 (B3), Phlyer_85 (B3), RagingRooster_84 (B3), Rita1961_86 (B3), SlippinJimmy_88 (B3), SynergyX_85 (B3), Tydolla_81 (B3), Yahalom_83 (B3),

Start 31:

- Found in 2 of 125 (1.6%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Daddyjeff_75 (JA), Serenabean_74 (JA),

Start 32:

- Found in 6 of 125 (4.8%) of genes in pham
- Manual Annotations of this start: 4 of 108
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Ashton_27 (EK2), Gibbles_95 (CX), Kampe_96 (CX), PatrickStar_96 (CX),

Start 33:

- Found in 11 of 125 (8.8%) of genes in pham
- Manual Annotations of this start: 9 of 108
- Called 90.9% of time when present
- Phage (with cluster) where this start called: A3Wally_342 (GD1), BirdsNest_94 (B13), Gadget_85 (B3), Hashim76_94 (B13), Indlovu_80 (B11), Oaker_62 (H1), PauloDiaboli_342 (GD1), Pipefish_86 (B3), Predator_62 (H1), Zenteno07_94 (B13),

Start 34:

- Found in 14 of 125 (11.2%) of genes in pham
- Manual Annotations of this start: 10 of 108
- Called 78.6% of time when present
- Phage (with cluster) where this start called: AddiRose_74 (JA), Aegeus_72 (L5), Baudelaire_72 (L5), BlueNGold_41 (DS), Boopy_43 (DS), Forza_42 (DS), Mareelih_41 (DS), Orchid_95 (CX), Phendrix_157 (DK), RobinSparkles_99 (CX), Sixama_41 (DS),

Start 35:

- Found in 30 of 125 (24.0%) of genes in pham
- Manual Annotations of this start: 17 of 108
- Called 60.0% of time when present
- Phage (with cluster) where this start called: AluminumJesus_75 (EG), Blab_75 (EG), Casend_79 (EG), Gazebo_79 (EG), Grassboy_83 (EG), Hyperion_77 (EG), Jehoshaphat_80 (EG), Llemily_80 (EG), Lonelysoil_76 (EG), Mashley_79 (EG), Namago_81 (EG), Phabia_78 (EG), Quammi_77 (EG), Squash_82 (EG), StrawberryJamm_84 (EG), Teehee_79 (EG), Viceroy_77 (EG), Wheelie_78 (EG),

Start 37:

- Found in 16 of 125 (12.8%) of genes in pham
- Manual Annotations of this start: 3 of 108
- Called 18.8% of time when present
- Phage (with cluster) where this start called: Araxxi_22 (EM1), Burro_22 (EM1), DoTi_22 (EM1),

Start 38:

- Found in 1 of 125 (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: FrankDeliGuy_78 (EG),

Start 39:

- Found in 22 of 125 (17.6%) of genes in pham
- Manual Annotations of this start: 5 of 108
- Called 40.9% of time when present
- Phage (with cluster) where this start called: BabyDotz_77 (EG), DonaldDuck_80 (EG), Judebell_78 (EG), Kyva_82 (EG), Rudy_76 (EG), Sillytadpoles_81 (EG), Tissue_79 (EG), Wayne3_80 (EG), Zagie_80 (EG),

Start 49:

- Found in 19 of 125 (15.2%) of genes in pham
- Manual Annotations of this start: 13 of 108
- Called 89.5% of time when present
- Phage (with cluster) where this start called: Abscondus_6 (CQ1), Aphelion_7 (CQ1), Bachita_8 (CQ1), ClubL_7 (CQ1), Cucurbita_7 (CQ1), Culver_6 (CQ1), Dusty_6 (CQ1), Engineer_7 (CQ1), Geeche_6 (CQ1), Lozinak_7 (CQ1), Miskis_8 (CQ1), Norvs_7 (CQ1), OneUp_6 (CQ2), PhinkBoden_8 (CQ1), Smoothie_7 (CQ1), Toniann_7 (CQ1), WilliamBoone_6 (CQ1),

Start 50:

- Found in 1 of 125 (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: GodonK_167 (DK),

Start 53:

- Found in 20 of 125 (16.0%) of genes in pham
- Manual Annotations of this start: 1 of 108
- Called 5.0% of time when present
- Phage (with cluster) where this start called: Bernardo_85 (B3),

Summary by clusters:

There are 19 clusters represented in this pham: GD1, GD3, CX, DK, C2, DS, EG, H1, JA, B11, L5, EM1, B13, B3, CQ2, CQ1, B8, EK2, FC,

Info for manual annotations of cluster B11:

- Start number 33 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B13:

- Start number 33 was manually annotated 2 times for cluster B13.

Info for manual annotations of cluster B3:

- Start number 29 was manually annotated 17 times for cluster B3.
- Start number 30 was manually annotated 25 times for cluster B3.
- Start number 33 was manually annotated 2 times for cluster B3.
- Start number 53 was manually annotated 1 time for cluster B3.

Info for manual annotations of cluster B8:

- Start number 26 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster C2:

- Start number 25 was manually annotated 1 time for cluster C2.

Info for manual annotations of cluster CQ1:

- Start number 49 was manually annotated 12 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 49 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster CX:

- Start number 32 was manually annotated 3 times for cluster CX.
- Start number 34 was manually annotated 2 times for cluster CX.

Info for manual annotations of cluster DK:

- Start number 34 was manually annotated 1 time for cluster DK.
- Start number 50 was manually annotated 1 time for cluster DK.

Info for manual annotations of cluster DS:

- Start number 34 was manually annotated 5 times for cluster DS.

Info for manual annotations of cluster EG:

- Start number 35 was manually annotated 17 times for cluster EG.
- Start number 39 was manually annotated 5 times for cluster EG.

Info for manual annotations of cluster EK2:

- Start number 32 was manually annotated 1 time for cluster EK2.

Info for manual annotations of cluster EM1:

- Start number 37 was manually annotated 3 times for cluster EM1.

Info for manual annotations of cluster GD1:

- Start number 33 was manually annotated 2 times for cluster GD1.

Info for manual annotations of cluster GD3:

- Start number 27 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster H1:

- Start number 33 was manually annotated 2 times for cluster H1.

Info for manual annotations of cluster L5:

- Start number 34 was manually annotated 2 times for cluster L5.

Gene Information:

Gene: A3Wally_342 Start: 176311, Stop: 176649, Start Num: 33

Candidate Starts for A3Wally_342:

(Start: 33 @176311 has 9 MA's), (41, 176332), (45, 176344), (46, 176347), (48, 176356), (51, 176362), (54, 176389), (77, 176470), (91, 176563), (93, 176569), (98, 176620),

Gene: Abinghost_85 Start: 62155, Stop: 61802, Start Num: 30

Candidate Starts for Abinghost_85:

(Start: 29 @62158 has 17 MA's), (Start: 30 @62155 has 25 MA's), (36, 62140), (55, 62062), (60, 62032), (61, 62026), (70, 62005), (86, 61930), (96, 61840),

Gene: Abscondus_6 Start: 1603, Stop: 1334, Start Num: 49

Candidate Starts for Abscondus_6:

(1, 2167), (2, 2137), (3, 2056), (6, 1948), (7, 1909), (Start: 49 @1603 has 13 MA's), (54, 1573), (56, 1558), (81, 1477), (87, 1441),

Gene: AddiRose_74 Start: 47344, Stop: 47628, Start Num: 34

Candidate Starts for AddiRose_74:

(10, 47176), (14, 47233), (Start: 34 @47344 has 10 MA's), (43, 47371),

Gene: Aegeus_72 Start: 46824, Stop: 47111, Start Num: 34

Candidate Starts for Aegeus_72:

(Start: 34 @46824 has 10 MA's), (Start: 49 @46863 has 13 MA's), (55, 46896), (93, 47061),

Gene: Akoma_85 Start: 62195, Stop: 61842, Start Num: 30

Candidate Starts for Akoma_85:

(Start: 29 @62198 has 17 MA's), (Start: 30 @62195 has 25 MA's), (36, 62180), (55, 62102), (60, 62072), (61, 62066), (70, 62045), (86, 61970), (96, 61880),

Gene: AluminumJesus_75 Start: 51316, Stop: 51035, Start Num: 35

Candidate Starts for AluminumJesus_75:

(Start: 35 @51316 has 17 MA's), (69, 51187), (72, 51172),

Gene: Aphelion_7 Start: 1779, Stop: 1510, Start Num: 49

Candidate Starts for Aphelion_7:

(6, 2124), (7, 2085), (Start: 49 @1779 has 13 MA's), (56, 1734), (81, 1653), (87, 1617),

Gene: Araxxi_22 Start: 16801, Stop: 16511, Start Num: 37

Candidate Starts for Araxxi_22:

(Start: 37 @16801 has 3 MA's), (42, 16783), (44, 16777), (64, 16687), (80, 16639), (84, 16627), (92, 16570), (94, 16552),

Gene: Ashton_27 Start: 15701, Stop: 15408, Start Num: 32

Candidate Starts for Ashton_27:

(11, 15821), (13, 15800), (22, 15752), (Start: 32 @15701 has 4 MA's), (71, 15563),

Gene: Athena_87 Start: 62930, Stop: 62577, Start Num: 30

Candidate Starts for Athena_87:

(Start: 29 @62933 has 17 MA's), (Start: 30 @62930 has 25 MA's), (36, 62915), (55, 62837), (60, 62807), (61, 62801), (70, 62780), (86, 62705), (96, 62615),

Gene: Atuin_262 Start: 161281, Stop: 161634, Start Num: 24

Candidate Starts for Atuin_262:

(24, 161281), (28, 161311), (Start: 35 @161329 has 17 MA's), (65, 161449), (76, 161479),

Gene: Audrey_85 Start: 62187, Stop: 61831, Start Num: 29

Candidate Starts for Audrey_85:

(Start: 29 @62187 has 17 MA's), (Start: 30 @62184 has 25 MA's), (36, 62169), (55, 62091), (60, 62061), (61, 62055), (70, 62034), (86, 61959), (96, 61869),

Gene: BabyDotz_77 Start: 52957, Stop: 52679, Start Num: 39

Candidate Starts for BabyDotz_77:

(Start: 35 @52966 has 17 MA's), (Start: 39 @52957 has 5 MA's), (44, 52939), (72, 52822), (74, 52819), (79, 52816),

Gene: Bachita_8 Start: 2279, Stop: 2010, Start Num: 49

Candidate Starts for Bachita_8:

(1, 2843), (2, 2813), (3, 2732), (6, 2624), (7, 2585), (Start: 49 @2279 has 13 MA's), (56, 2234), (81, 2153), (87, 2117),

Gene: Baloo_84 Start: 62039, Stop: 61683, Start Num: 29

Candidate Starts for Baloo_84:

(Start: 29 @62039 has 17 MA's), (Start: 30 @62036 has 25 MA's), (36, 62021), (55, 61943), (60, 61913), (61, 61907), (70, 61886), (86, 61811), (96, 61721),

Gene: Baudelaire_72 Start: 46824, Stop: 47111, Start Num: 34

Candidate Starts for Baudelaire_72:

(Start: 34 @46824 has 10 MA's), (Start: 49 @46863 has 13 MA's), (55, 46896), (93, 47061),

Gene: Ben11_85 Start: 62414, Stop: 62058, Start Num: 29

Candidate Starts for Ben11_85:

(Start: 29 @62414 has 17 MA's), (Start: 30 @62411 has 25 MA's), (36, 62396), (55, 62318), (60, 62288), (61, 62282), (70, 62261), (86, 62186), (96, 62096),

Gene: Bernardo_85 Start: 62136, Stop: 61870, Start Num: 53

Candidate Starts for Bernardo_85:

(12, 62325), (16, 62301), (19, 62292), (Start: 33 @62202 has 9 MA's), (41, 62181), (46, 62166), (Start: 53 @62136 has 1 MA's), (55, 62118), (84, 62019), (97, 61893),

Gene: BirdsNest_94 Start: 66955, Stop: 66563, Start Num: 33

Candidate Starts for BirdsNest_94:

(Start: 33 @66955 has 9 MA's), (46, 66919), (Start: 53 @66886 has 1 MA's), (68, 66820), (75, 66787), (83, 66760), (90, 66697), (93, 66682),

Gene: Blab_75 Start: 51607, Stop: 51326, Start Num: 35

Candidate Starts for Blab_75:

(Start: 35 @51607 has 17 MA's), (69, 51478), (72, 51463),

Gene: BlueNGold_41 Start: 14735, Stop: 14454, Start Num: 34

Candidate Starts for BlueNGold_41:

(Start: 34 @14735 has 10 MA's), (45, 14702), (47, 14693),

Gene: Boopy_43 Start: 14747, Stop: 14466, Start Num: 34

Candidate Starts for Boopy_43:

(Start: 34 @14747 has 10 MA's), (45, 14714), (47, 14705),

Gene: Briakila_85 Start: 62382, Stop: 62029, Start Num: 30

Candidate Starts for Briakila_85:

(Start: 29 @62385 has 17 MA's), (Start: 30 @62382 has 25 MA's), (36, 62367), (55, 62289), (60, 62259), (61, 62253), (70, 62232), (86, 62157), (96, 62067),

Gene: Burro_22 Start: 15917, Stop: 15615, Start Num: 37

Candidate Starts for Burro_22:

(18, 16013), (Start: 35 @15920 has 17 MA's), (Start: 37 @15917 has 3 MA's), (44, 15893), (45, 15890), (67, 15797), (76, 15767), (80, 15752), (92, 15683),

Gene: Casbah_85 Start: 62495, Stop: 62142, Start Num: 30

Candidate Starts for Casbah_85:

(Start: 29 @62498 has 17 MA's), (Start: 30 @62495 has 25 MA's), (36, 62480), (55, 62402), (60, 62372), (61, 62366), (70, 62345), (86, 62270), (96, 62180),

Gene: Casend_79 Start: 52248, Stop: 51961, Start Num: 35

Candidate Starts for Casend_79:

(Start: 35 @52248 has 17 MA's), (Start: 39 @52239 has 5 MA's), (44, 52221), (72, 52104), (74, 52101), (79, 52098),

Gene: Cece_218 Start: 133451, Stop: 133741, Start Num: 27

Candidate Starts for Cece_218:

(Start: 27 @133451 has 1 MA's), (57, 133550), (92, 133673), (93, 133679),

Gene: ChaChing_85 Start: 62197, Stop: 61847, Start Num: 30

Candidate Starts for ChaChing_85:

(Start: 29 @62200 has 17 MA's), (Start: 30 @62197 has 25 MA's), (Start: 37 @62179 has 3 MA's), (Start: 53 @62125 has 1 MA's), (55, 62107), (60, 62077), (76, 62029), (86, 61975), (96, 61885),

Gene: Chandler_85 Start: 62974, Stop: 62618, Start Num: 29

Candidate Starts for Chandler_85:

(Start: 29 @62974 has 17 MA's), (Start: 30 @62971 has 25 MA's), (36, 62956), (55, 62878), (60, 62848), (61, 62842), (70, 62821), (86, 62746),

Gene: ClubL_7 Start: 1779, Stop: 1510, Start Num: 49

Candidate Starts for ClubL_7:

(6, 2124), (7, 2085), (Start: 49 @1779 has 13 MA's), (56, 1734), (81, 1653), (87, 1617),

Gene: Compostia_84 Start: 62637, Stop: 62287, Start Num: 30

Candidate Starts for Compostia_84:

(Start: 29 @62640 has 17 MA's), (Start: 30 @62637 has 25 MA's), (Start: 37 @62619 has 3 MA's), (Start: 53 @62565 has 1 MA's), (55, 62547), (60, 62517), (76, 62469), (86, 62415), (96, 62325),

Gene: Corofin_85 Start: 62209, Stop: 61853, Start Num: 29

Candidate Starts for Corofin_85:

(Start: 29 @62209 has 17 MA's), (Start: 30 @62206 has 25 MA's), (36, 62191), (55, 62113), (60, 62083), (61, 62077), (70, 62056), (86, 61981), (96, 61891),

Gene: Cucurbita_7 Start: 1779, Stop: 1510, Start Num: 49

Candidate Starts for Cucurbita_7:

(6, 2124), (7, 2085), (Start: 49 @1779 has 13 MA's), (56, 1734), (81, 1653), (87, 1617),

Gene: Culver_6 Start: 1603, Stop: 1334, Start Num: 49

Candidate Starts for Culver_6:

(1, 2167), (2, 2137), (3, 2056), (6, 1948), (7, 1909), (Start: 49 @1603 has 13 MA's), (54, 1573), (56, 1558), (81, 1477), (87, 1441),

Gene: Daddyjeff_75 Start: 47745, Stop: 48029, Start Num: 31

Candidate Starts for Daddyjeff_75:

(10, 47595), (14, 47649), (31, 47745), (43, 47772), (71, 47880),

Gene: Daisy_84 Start: 61757, Stop: 61404, Start Num: 30

Candidate Starts for Daisy_84:

(Start: 29 @61760 has 17 MA's), (Start: 30 @61757 has 25 MA's), (36, 61742), (55, 61664), (60, 61634), (61, 61628), (70, 61607), (86, 61532), (96, 61442),

Gene: Deenasa_85 Start: 63106, Stop: 62753, Start Num: 30

Candidate Starts for Deenasa_85:

(Start: 29 @63109 has 17 MA's), (Start: 30 @63106 has 25 MA's), (36, 63091), (55, 63013), (60, 62983), (61, 62977), (70, 62956), (86, 62881), (96, 62791),

Gene: Devonte_83 Start: 61823, Stop: 61470, Start Num: 30

Candidate Starts for Devonte_83:

(Start: 29 @61826 has 17 MA's), (Start: 30 @61823 has 25 MA's), (36, 61808), (55, 61730), (60, 61700), (61, 61694), (70, 61673), (86, 61598), (96, 61508),

Gene: DoTi_22 Start: 16882, Stop: 16592, Start Num: 37

Candidate Starts for DoTi_22:

(Start: 37 @16882 has 3 MA's), (42, 16864), (44, 16858), (64, 16768), (80, 16720), (84, 16708), (94, 16633),

Gene: DonaldDuck_80 Start: 51591, Stop: 51313, Start Num: 39

Candidate Starts for DonaldDuck_80:

(Start: 35 @51600 has 17 MA's), (Start: 39 @51591 has 5 MA's), (44, 51573), (72, 51456), (74, 51453), (79, 51450),

Gene: Dusty_6 Start: 1603, Stop: 1334, Start Num: 49

Candidate Starts for Dusty_6:

(1, 2167), (2, 2137), (3, 2056), (6, 1948), (7, 1909), (Start: 49 @1603 has 13 MA's), (54, 1573), (56, 1558), (81, 1477), (87, 1441),

Gene: Engineer_7 Start: 1779, Stop: 1510, Start Num: 49

Candidate Starts for Engineer_7:

(Start: 49 @1779 has 13 MA's), (56, 1734), (81, 1653), (87, 1617),

Gene: Forza_42 Start: 14663, Stop: 14382, Start Num: 34

Candidate Starts for Forza_42:

(Start: 34 @14663 has 10 MA's), (45, 14630), (47, 14621),

Gene: FrankDeliGuy_78 Start: 51962, Stop: 51681, Start Num: 38

Candidate Starts for FrankDeliGuy_78:

(Start: 35 @51968 has 17 MA's), (38, 51962), (Start: 39 @51959 has 5 MA's), (44, 51941), (72, 51824), (74, 51821), (79, 51818),

Gene: Gadjet_85 Start: 62385, Stop: 62053, Start Num: 33

Candidate Starts for Gadjet_85:

(12, 62508), (16, 62484), (19, 62475), (Start: 33 @62385 has 9 MA's), (41, 62364), (46, 62349), (Start: 53 @62319 has 1 MA's), (55, 62301), (84, 62202), (96, 62085), (97, 62076),

Gene: Gazebo_79 Start: 52534, Stop: 52253, Start Num: 35

Candidate Starts for Gazebo_79:

(Start: 35 @52534 has 17 MA's), (69, 52405), (72, 52390),

Gene: Geeche_6 Start: 1598, Stop: 1329, Start Num: 49

Candidate Starts for Geeche_6:

(1, 2162), (2, 2132), (3, 2051), (6, 1943), (7, 1904), (Start: 49 @1598 has 13 MA's), (56, 1553), (81, 1472), (87, 1436),

Gene: Gervas_86 Start: 62651, Stop: 62298, Start Num: 30

Candidate Starts for Gervas_86:

(Start: 29 @62654 has 17 MA's), (Start: 30 @62651 has 25 MA's), (Start: 37 @62633 has 3 MA's), (55, 62558), (60, 62528), (61, 62522), (70, 62501), (86, 62426), (96, 62336),

Gene: Gibbles_95 Start: 69566, Stop: 69255, Start Num: 32

Candidate Starts for Gibbles_95:

(Start: 32 @69566 has 4 MA's), (Start: 34 @69560 has 10 MA's), (41, 69539), (43, 69533), (45, 69527), (67, 69437), (73, 69413), (85, 69359),

Gene: GlenHope_86 Start: 62227, Stop: 61877, Start Num: 30

Candidate Starts for GlenHope_86:

(Start: 29 @62230 has 17 MA's), (Start: 30 @62227 has 25 MA's), (Start: 37 @62209 has 3 MA's), (Start: 53 @62155 has 1 MA's), (55, 62137), (60, 62107), (76, 62059), (86, 62005), (96, 61915),

Gene: GodonK_167 Start: 85677, Stop: 85414, Start Num: 50

Candidate Starts for GodonK_167:

(Start: 50 @85677 has 1 MA's), (52, 85671), (56, 85635), (58, 85629), (59, 85626), (78, 85566), (82, 85551), (88, 85515), (93, 85473),

Gene: Grassboy_83 Start: 52649, Stop: 52362, Start Num: 35

Candidate Starts for Grassboy_83:

(Start: 35 @52649 has 17 MA's), (Start: 39 @52640 has 5 MA's), (44, 52622), (72, 52505), (79, 52499), (89, 52433),

Gene: Halfpint_84 Start: 61969, Stop: 61619, Start Num: 30

Candidate Starts for Halfpint_84:

(Start: 29 @61972 has 17 MA's), (Start: 30 @61969 has 25 MA's), (Start: 37 @61951 has 3 MA's), (Start: 53 @61897 has 1 MA's), (55, 61879), (60, 61849), (76, 61801), (86, 61747), (96, 61657),

Gene: HarveySr_84 Start: 61732, Stop: 61388, Start Num: 29

Candidate Starts for HarveySr_84:

(21, 61780), (Start: 29 @61732 has 17 MA's), (Start: 37 @61717 has 3 MA's), (41, 61705), (Start: 53 @61666 has 1 MA's), (55, 61648), (60, 61618), (84, 61543), (92, 61474),

Gene: Hashim76_94 Start: 66420, Stop: 66052, Start Num: 33

Candidate Starts for Hashim76_94:

(17, 66519), (Start: 33 @66420 has 9 MA's), (Start: 53 @66351 has 1 MA's), (68, 66285), (83, 66231), (100, 66078),

Gene: Heathcliff_85 Start: 62151, Stop: 61798, Start Num: 30

Candidate Starts for Heathcliff_85:

(Start: 29 @62154 has 17 MA's), (Start: 30 @62151 has 25 MA's), (36, 62136), (55, 62058), (60, 62028), (61, 62022), (70, 62001), (86, 61926), (96, 61836),

Gene: Hyperion_77 Start: 51797, Stop: 51516, Start Num: 35

Candidate Starts for Hyperion_77:

(Start: 35 @51797 has 17 MA's), (69, 51668), (72, 51653),

Gene: Indlovu_80 Start: 64701, Stop: 64342, Start Num: 33

Candidate Starts for Indlovu_80:

(5, 65067), (20, 64773), (Start: 33 @64701 has 9 MA's), (Start: 53 @64632 has 1 MA's), (55, 64614), (60, 64584), (62, 64575), (76, 64539), (93, 64440), (95, 64410),

Gene: Jackstina_79 Start: 62068, Stop: 61712, Start Num: 29

Candidate Starts for Jackstina_79:

(Start: 29 @62068 has 17 MA's), (Start: 30 @62065 has 25 MA's), (36, 62050), (55, 61972), (60, 61942), (70, 61915), (86, 61840), (96, 61750),

Gene: Jehoshaphat_80 Start: 52516, Stop: 52229, Start Num: 35

Candidate Starts for Jehoshaphat_80:

(Start: 35 @52516 has 17 MA's), (Start: 39 @52507 has 5 MA's), (44, 52489), (72, 52372), (74, 52369), (79, 52366),

Gene: Judebell_78 Start: 51731, Stop: 51453, Start Num: 39

Candidate Starts for Judebell_78:

(Start: 35 @51740 has 17 MA's), (Start: 39 @51731 has 5 MA's), (44, 51713), (72, 51596), (74, 51593), (79, 51590),

Gene: Kamiyu_85 Start: 62154, Stop: 61801, Start Num: 30

Candidate Starts for Kamiyu_85:

(Start: 29 @62157 has 17 MA's), (Start: 30 @62154 has 25 MA's), (36, 62139), (55, 62061), (60, 62031), (61, 62025), (70, 62004), (86, 61929), (96, 61839),

Gene: Kampe_96 Start: 69516, Stop: 69205, Start Num: 32

Candidate Starts for Kampe_96:

(Start: 32 @69516 has 4 MA's), (Start: 34 @69510 has 10 MA's), (43, 69483), (67, 69387), (85, 69309),

Gene: Kronus_85 Start: 63241, Stop: 62885, Start Num: 29

Candidate Starts for Kronus_85:

(Start: 29 @63241 has 17 MA's), (Start: 30 @63238 has 25 MA's), (36, 63223), (55, 63145), (60, 63115), (61, 63109), (70, 63088), (86, 63013), (96, 62923),

Gene: Kyva_82 Start: 52664, Stop: 52386, Start Num: 39

Candidate Starts for Kyva_82:

(Start: 35 @52673 has 17 MA's), (Start: 39 @52664 has 5 MA's), (44, 52646), (72, 52529), (79, 52523), (89, 52457),

Gene: LestyG_83 Start: 61727, Stop: 61371, Start Num: 29

Candidate Starts for LestyG_83:

(Start: 29 @61727 has 17 MA's), (Start: 30 @61724 has 25 MA's), (36, 61709), (55, 61631), (60, 61601), (61, 61595), (70, 61574), (86, 61499), (96, 61409),

Gene: Llemily_80 Start: 51295, Stop: 51008, Start Num: 35
Candidate Starts for Llemily_80:
(Start: 35 @51295 has 17 MA's), (Start: 39 @51286 has 5 MA's), (44, 51268), (72, 51151), (74, 51148), (79, 51145),

Gene: Lonelysoil_76 Start: 51052, Stop: 50765, Start Num: 35
Candidate Starts for Lonelysoil_76:
(Start: 35 @51052 has 17 MA's), (Start: 39 @51043 has 5 MA's), (44, 51025), (72, 50908), (74, 50905), (79, 50902),

Gene: Lozinak_7 Start: 1779, Stop: 1510, Start Num: 49
Candidate Starts for Lozinak_7:
(6, 2124), (7, 2085), (Start: 49 @1779 has 13 MA's), (56, 1734), (81, 1653), (87, 1617),

Gene: Mareelih_41 Start: 14165, Stop: 13884, Start Num: 34
Candidate Starts for Mareelih_41:
(Start: 34 @14165 has 10 MA's), (45, 14132), (47, 14123),

Gene: Marley1013_86 Start: 63081, Stop: 62737, Start Num: 29
Candidate Starts for Marley1013_86:
(21, 63129), (Start: 29 @63081 has 17 MA's), (Start: 37 @63066 has 3 MA's), (41, 63054), (Start: 53 @63015 has 1 MA's), (55, 62997), (60, 62967), (84, 62892), (92, 62823),

Gene: Mashley_79 Start: 52319, Stop: 52038, Start Num: 35
Candidate Starts for Mashley_79:
(Start: 35 @52319 has 17 MA's), (69, 52190), (72, 52175),

Gene: Miskis_8 Start: 1779, Stop: 1510, Start Num: 49
Candidate Starts for Miskis_8:
(6, 2124), (7, 2085), (Start: 49 @1779 has 13 MA's), (56, 1734), (81, 1653), (87, 1617),

Gene: MmasiCarm_86 Start: 62584, Stop: 62240, Start Num: 29
Candidate Starts for MmasiCarm_86:
(Start: 29 @62584 has 17 MA's), (Start: 37 @62569 has 3 MA's), (41, 62557), (Start: 53 @62518 has 1 MA's), (55, 62500), (60, 62470), (84, 62395), (92, 62326),

Gene: Mortcellus_85 Start: 63322, Stop: 62966, Start Num: 29
Candidate Starts for Mortcellus_85:
(Start: 29 @63322 has 17 MA's), (Start: 30 @63319 has 25 MA's), (36, 63304), (55, 63226), (60, 63196), (61, 63190), (70, 63169), (86, 63094), (96, 63004),

Gene: Morty007_84 Start: 63081, Stop: 62737, Start Num: 29
Candidate Starts for Morty007_84:
(21, 63129), (Start: 29 @63081 has 17 MA's), (Start: 37 @63066 has 3 MA's), (41, 63054), (Start: 53 @63015 has 1 MA's), (55, 62997), (60, 62967), (84, 62892), (92, 62823),

Gene: Namago_81 Start: 52020, Stop: 51733, Start Num: 35
Candidate Starts for Namago_81:
(Start: 35 @52020 has 17 MA's), (Start: 39 @52011 has 5 MA's), (44, 51993), (72, 51876), (74, 51873), (79, 51870),

Gene: Neos5_85 Start: 62543, Stop: 62199, Start Num: 29
Candidate Starts for Neos5_85:

(21, 62591), (Start: 29 @62543 has 17 MA's), (Start: 37 @62528 has 3 MA's), (41, 62516), (Start: 53 @62477 has 1 MA's), (55, 62459), (60, 62429), (84, 62354), (92, 62285),

Gene: Norvs_7 Start: 1779, Stop: 1510, Start Num: 49

Candidate Starts for Norvs_7:

(6, 2124), (7, 2085), (Start: 49 @1779 has 13 MA's), (56, 1734), (81, 1653), (87, 1617),

Gene: Nozo_85 Start: 62961, Stop: 62608, Start Num: 30

Candidate Starts for Nozo_85:

(Start: 29 @62964 has 17 MA's), (Start: 30 @62961 has 25 MA's), (36, 62946), (55, 62868), (60, 62838), (61, 62832), (70, 62811), (86, 62736), (96, 62646),

Gene: Oaker_62 Start: 48655, Stop: 48993, Start Num: 33

Candidate Starts for Oaker_62:

(4, 48274), (8, 48409), (Start: 33 @48655 has 9 MA's), (40, 48673), (61, 48775), (75, 48811), (93, 48907),

Gene: Obutu_87 Start: 62764, Stop: 62411, Start Num: 30

Candidate Starts for Obutu_87:

(Start: 29 @62767 has 17 MA's), (Start: 30 @62764 has 25 MA's), (36, 62749), (55, 62671), (60, 62641), (61, 62635), (70, 62614), (86, 62539), (96, 62449),

Gene: OneUp_6 Start: 1509, Stop: 1234, Start Num: 49

Candidate Starts for OneUp_6:

(Start: 49 @1509 has 13 MA's), (79, 1392),

Gene: OrangeOswald_84 Start: 62199, Stop: 61843, Start Num: 29

Candidate Starts for OrangeOswald_84:

(Start: 29 @62199 has 17 MA's), (Start: 30 @62196 has 25 MA's), (36, 62181), (55, 62103), (60, 62073), (61, 62067), (70, 62046), (86, 61971), (96, 61881),

Gene: Orchid_95 Start: 69511, Stop: 69206, Start Num: 34

Candidate Starts for Orchid_95:

(Start: 32 @69517 has 4 MA's), (Start: 34 @69511 has 10 MA's), (43, 69484), (67, 69388), (85, 69310),

Gene: PatrickStar_96 Start: 69516, Stop: 69205, Start Num: 32

Candidate Starts for PatrickStar_96:

(Start: 32 @69516 has 4 MA's), (Start: 34 @69510 has 10 MA's), (43, 69483), (67, 69387), (85, 69309),

Gene: PauloDiaboli_342 Start: 173467, Stop: 173805, Start Num: 33

Candidate Starts for PauloDiaboli_342:

(Start: 33 @173467 has 9 MA's), (41, 173488), (46, 173503), (48, 173512), (51, 173518), (54, 173545), (77, 173626), (91, 173719), (93, 173725), (98, 173776),

Gene: Phabia_78 Start: 51707, Stop: 51420, Start Num: 35

Candidate Starts for Phabia_78:

(Start: 35 @51707 has 17 MA's), (Start: 39 @51698 has 5 MA's), (44, 51680), (72, 51563), (74, 51560), (79, 51557),

Gene: Phaedrus_80 Start: 61612, Stop: 61259, Start Num: 30

Candidate Starts for Phaedrus_80:

(Start: 29 @61615 has 17 MA's), (Start: 30 @61612 has 25 MA's), (36, 61597), (55, 61519), (60, 61489), (61, 61483), (70, 61462), (86, 61387), (96, 61297),

Gene: Phayeta_88 Start: 62684, Stop: 62328, Start Num: 29

Candidate Starts for Phayeta_88:

(Start: 29 @62684 has 17 MA's), (Start: 30 @62681 has 25 MA's), (36, 62666), (55, 62588), (60, 62558), (61, 62552), (70, 62531), (86, 62456), (96, 62366),

Gene: Phendrix_157 Start: 84630, Stop: 84319, Start Num: 34

Candidate Starts for Phendrix_157:

(Start: 34 @84630 has 10 MA's), (52, 84576), (55, 84552), (78, 84471), (82, 84456), (88, 84420), (93, 84378),

Gene: Philly_84 Start: 62041, Stop: 61691, Start Num: 30

Candidate Starts for Philly_84:

(Start: 29 @62044 has 17 MA's), (Start: 30 @62041 has 25 MA's), (Start: 37 @62023 has 3 MA's), (Start: 53 @61969 has 1 MA's), (55, 61951), (60, 61921), (76, 61873), (86, 61819), (96, 61729),

Gene: PhinkBoden_8 Start: 2279, Stop: 2010, Start Num: 49

Candidate Starts for PhinkBoden_8:

(1, 2843), (2, 2813), (3, 2732), (6, 2624), (7, 2585), (Start: 49 @2279 has 13 MA's), (56, 2234), (81, 2153), (87, 2117),

Gene: Phlyer_85 Start: 62907, Stop: 62554, Start Num: 30

Candidate Starts for Phlyer_85:

(Start: 29 @62910 has 17 MA's), (Start: 30 @62907 has 25 MA's), (36, 62892), (55, 62814), (60, 62784), (61, 62778), (70, 62757), (86, 62682), (96, 62592),

Gene: Pipefish_86 Start: 63131, Stop: 62799, Start Num: 33

Candidate Starts for Pipefish_86:

(12, 63254), (16, 63230), (19, 63221), (Start: 33 @63131 has 9 MA's), (41, 63110), (46, 63095), (Start: 53 @63065 has 1 MA's), (55, 63047), (84, 62948), (96, 62831), (97, 62822),

Gene: Predator_62 Start: 46573, Stop: 46911, Start Num: 33

Candidate Starts for Predator_62:

(23, 46528), (Start: 33 @46573 has 9 MA's), (40, 46591), (82, 46750), (95, 46855), (99, 46888),

Gene: Quammi_77 Start: 51407, Stop: 51120, Start Num: 35

Candidate Starts for Quammi_77:

(Start: 35 @51407 has 17 MA's), (Start: 39 @51398 has 5 MA's), (44, 51380), (72, 51263), (74, 51260), (79, 51257),

Gene: RagingRooster_84 Start: 61887, Stop: 61534, Start Num: 30

Candidate Starts for RagingRooster_84:

(Start: 29 @61890 has 17 MA's), (Start: 30 @61887 has 25 MA's), (36, 61872), (55, 61794), (60, 61764), (61, 61758), (70, 61737), (86, 61662), (96, 61572),

Gene: Rita1961_86 Start: 62538, Stop: 62188, Start Num: 30

Candidate Starts for Rita1961_86:

(Start: 29 @62541 has 17 MA's), (Start: 30 @62538 has 25 MA's), (Start: 37 @62520 has 3 MA's), (Start: 53 @62466 has 1 MA's), (55, 62448), (60, 62418), (86, 62316), (96, 62226),

Gene: RobinSparkles_99 Start: 69573, Stop: 69268, Start Num: 34

Candidate Starts for RobinSparkles_99:

(Start: 32 @69579 has 4 MA's), (Start: 34 @69573 has 10 MA's), (67, 69450), (73, 69426), (85, 69372),

Gene: RomaT_85 Start: 62764, Stop: 62408, Start Num: 29

Candidate Starts for RomaT_85:

(Start: 29 @62764 has 17 MA's), (Start: 30 @62761 has 25 MA's), (36, 62746), (55, 62668), (60, 62638), (61, 62632), (70, 62611), (86, 62536), (96, 62446),

Gene: Rudy_76 Start: 51434, Stop: 51156, Start Num: 39

Candidate Starts for Rudy_76:

(Start: 35 @51443 has 17 MA's), (Start: 39 @51434 has 5 MA's), (44, 51416), (72, 51299), (74, 51296), (79, 51293),

Gene: ScoobyDoobyDoo_14 Start: 4522, Stop: 4866, Start Num: 25

Candidate Starts for ScoobyDoobyDoo_14:

(Start: 25 @4522 has 1 MA's),

Gene: Serenabean_74 Start: 47658, Stop: 47942, Start Num: 31

Candidate Starts for Serenabean_74:

(10, 47508), (14, 47562), (31, 47658), (43, 47685), (71, 47793),

Gene: Sillytadpoles_81 Start: 51274, Stop: 50996, Start Num: 39

Candidate Starts for Sillytadpoles_81:

(Start: 35 @51283 has 17 MA's), (Start: 39 @51274 has 5 MA's), (44, 51256), (72, 51139), (74, 51136), (79, 51133),

Gene: Sixama_41 Start: 13852, Stop: 13571, Start Num: 34

Candidate Starts for Sixama_41:

(Start: 34 @13852 has 10 MA's), (55, 13774),

Gene: SlippinJimmy_88 Start: 63571, Stop: 63218, Start Num: 30

Candidate Starts for SlippinJimmy_88:

(Start: 29 @63574 has 17 MA's), (Start: 30 @63571 has 25 MA's), (36, 63556), (55, 63478), (60, 63448), (61, 63442), (70, 63421), (86, 63346), (96, 63256),

Gene: Smoothie_7 Start: 1779, Stop: 1510, Start Num: 49

Candidate Starts for Smoothie_7:

(6, 2124), (7, 2085), (Start: 49 @1779 has 13 MA's), (56, 1734), (81, 1653), (87, 1617),

Gene: Squash_82 Start: 52656, Stop: 52369, Start Num: 35

Candidate Starts for Squash_82:

(Start: 35 @52656 has 17 MA's), (44, 52629), (72, 52512), (74, 52509), (79, 52506),

Gene: StrawberryJamm_84 Start: 51823, Stop: 51536, Start Num: 35

Candidate Starts for StrawberryJamm_84:

(Start: 35 @51823 has 17 MA's), (Start: 39 @51814 has 5 MA's), (44, 51796), (72, 51679), (74, 51676), (79, 51673),

Gene: SynergyX_85 Start: 62198, Stop: 61845, Start Num: 30

Candidate Starts for SynergyX_85:

(Start: 29 @62201 has 17 MA's), (Start: 30 @62198 has 25 MA's), (36, 62183), (55, 62105), (60, 62075), (61, 62069), (70, 62048), (86, 61973), (96, 61883),

Gene: Teehee_79 Start: 52513, Stop: 52226, Start Num: 35

Candidate Starts for Teehee_79:

(Start: 35 @52513 has 17 MA's), (Start: 39 @52504 has 5 MA's), (44, 52486), (72, 52369), (74, 52366), (79, 52363),

Gene: Thonko_53 Start: 44732, Stop: 44370, Start Num: 26

Candidate Starts for Thonko_53:

(9, 44885), (Start: 26 @44732 has 1 MA's), (43, 44693), (Start: 53 @44657 has 1 MA's), (60, 44609), (62, 44600), (96, 44426), (101, 44390),

Gene: Tissue_79 Start: 52271, Stop: 51993, Start Num: 39

Candidate Starts for Tissue_79:

(Start: 35 @52280 has 17 MA's), (Start: 39 @52271 has 5 MA's), (44, 52253), (72, 52136), (79, 52130), (89, 52064),

Gene: Toniann_7 Start: 1779, Stop: 1510, Start Num: 49

Candidate Starts for Toniann_7:

(6, 2124), (7, 2085), (Start: 49 @1779 has 13 MA's), (56, 1734), (81, 1653), (87, 1617),

Gene: Tydolla_81 Start: 62177, Stop: 61824, Start Num: 30

Candidate Starts for Tydolla_81:

(Start: 29 @62180 has 17 MA's), (Start: 30 @62177 has 25 MA's), (36, 62162), (55, 62084), (60, 62054), (61, 62048), (70, 62027), (86, 61952), (96, 61862),

Gene: Viceroy_77 Start: 51416, Stop: 51129, Start Num: 35

Candidate Starts for Viceroy_77:

(Start: 35 @51416 has 17 MA's), (Start: 39 @51407 has 5 MA's), (44, 51389), (72, 51272), (74, 51269), (79, 51266),

Gene: Wayne3_80 Start: 52267, Stop: 51989, Start Num: 39

Candidate Starts for Wayne3_80:

(Start: 35 @52276 has 17 MA's), (Start: 39 @52267 has 5 MA's), (44, 52249), (72, 52132), (74, 52129), (79, 52126),

Gene: Wheelie_78 Start: 51597, Stop: 51310, Start Num: 35

Candidate Starts for Wheelie_78:

(Start: 35 @51597 has 17 MA's), (Start: 39 @51588 has 5 MA's), (44, 51570), (72, 51453), (74, 51450), (79, 51447),

Gene: WilliamBoone_6 Start: 1630, Stop: 1361, Start Num: 49

Candidate Starts for WilliamBoone_6:

(Start: 49 @1630 has 13 MA's), (56, 1585),

Gene: Yahalom_83 Start: 62004, Stop: 61651, Start Num: 30

Candidate Starts for Yahalom_83:

(Start: 29 @62007 has 17 MA's), (Start: 30 @62004 has 25 MA's), (36, 61989), (55, 61911), (60, 61881), (61, 61875), (70, 61854), (86, 61779), (96, 61689),

Gene: Yinz_85 Start: 62060, Stop: 61716, Start Num: 29

Candidate Starts for Yinz_85:

(21, 62108), (Start: 29 @62060 has 17 MA's), (Start: 37 @62045 has 3 MA's), (41, 62033), (Start: 53 @61994 has 1 MA's), (55, 61976), (60, 61946), (84, 61871), (92, 61802), (96, 61754),

Gene: Zagie_80 Start: 52091, Stop: 51813, Start Num: 39

Candidate Starts for Zagie_80:

(Start: 35 @52100 has 17 MA's), (Start: 39 @52091 has 5 MA's), (44, 52073), (72, 51956), (74, 51953), (79, 51950),

Gene: Zenteno07_94 Start: 66543, Stop: 66193, Start Num: 33

Candidate Starts for Zenteno07_94:

(15, 66642), (Start: 33 @66543 has 9 MA's), (Start: 53 @66477 has 1 MA's), (60, 66429), (63, 66420), (66, 66414), (100, 66216),