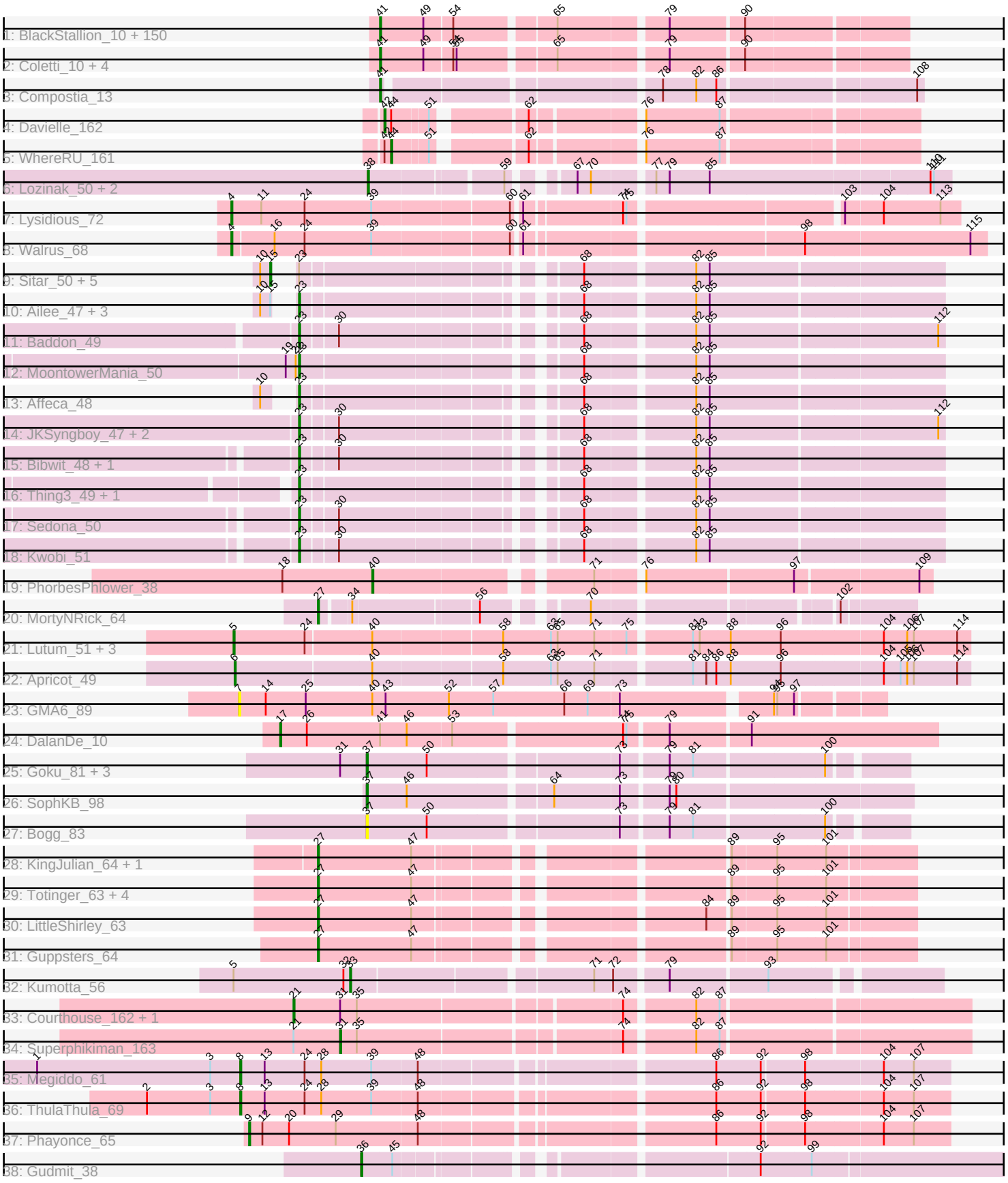
Pham 347252


1: BlackStallion_10 + 150
2: Coletti_10 + 4
3: Compostia_13
4: Davielle_162
5: WhereRU_161
6: Lozinak_50 + 2
7: Lysidious_72
8: Walrus_68
9: Sitar_50 + 5
10: Ailee_47 + 3
11: Baddon_49
12: MoontowerMania_50
13: Affeca_48
14: JKSyngboy_47 + 2
15: Bibwit_48 + 1
16: Thing3_49 + 1
17: Sedona_50
18: Kwobi_51
19: PhorbesPhlower_38
20: MortyNRick_64
21: Lutum_51 + 3
22: Apricot_49
23: GMA6_89
24: DalanDe_10
25: Goku_81 + 3
26: SophKB_98
27: Bogg_83
28: KingJulian_64 + 1
29: Totinger_63 + 4
30: LittleShirley_63
31: Guppsters_64
32: Kumotta_56
33: Courthouse_162 + 1
34: Superphikiman_163
35: Megiddo_61
36: ThulaThula_69
37: Phayonce_65
38: Gudmit_38

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 347252 Report

This analysis was run 11/14/26 on database version 672.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 347252 has 218 members, 3 are drafts.

Phages represented in each track:
• Track 1 : BlackStallion_10, Pops_10, SDcharge11_10, Durga_10, Sigman_10, Chunky_10, Chipette_11, Riggan_10, Soto_10, Inchworm_10, HSavage_10, Puhltonio_10, Lego3393_10, Zaider_11, CampRoach_10, Fang_10, Gyarad_0010, Swish_10, Dingo_10, Slatt_10, Magic8_10, Fringe_10, Gwennie1_10, Haimas_10, TomBombadil_10, Oosterbaan_10, Quisquiliae_10, DirtJuice_10, PhatLouie_10, Phunky_10, Anderson_10, Roliet_10, JacAttac_10, Phipps_10, Harvey_10, Pherdinand_10, Craff_10, Phamished_10, OliverWalter_10, Tomlarah_10, Andre_10, Waterdiva_10, Riverton_10, Matalotodo_10, Scoot17C_10, FluffyNinja_10, Gwilliam_10, PhrodoBaggins_105, JangoPhett_10, Surely_10, Nicole21_10, Chah_10, LeeLot_10, Hetaeria_10, Inverness_10, Etaye_10, Basato_11, Hertubise_10, AltPhacts_10, Vivaldi_10, Boehler_10, Zelda_10, Plmatters_10, Buckeye_10, EmpTee_10, Melc17_10, Mesh1_10, Newman_10, KLucky39_10, Kikipoo_10, Badfish_10, Podrick_10, CamL_10, Frankicide_10, Cannibal_10, FriarPreacher_10, Adriana_10, Nacho_0010, Lasso_10, Thora_10, Valjean_10, CheetO_10, Hartsy_10, Spartan300_10, Sheila_10, LasagnaCat_10, Virapocalypse_10, Pipsqueak_10, Samaymay_10, Morty_10, GeneCoco_10, Eremos_10, Roscoe_11, Tooj_10, Katniss_10, Daka_10, ProfessorX_10, Weher20_10, ABU_10, KlimbOn_10, BlueHusk_10, Serpentine_0010, Hamish_10, Prickles_10, Olive_10, Suffolk_10, ShadowBud_10, AngelCake_10, IsaacEli_10, Mikota_10, Orion_10, Kloppinator_10, OSmaximus_10, Lulwa_10, Colbert_10, UAch1_10, Trypo_10, Vista_10, MiniBoss_10, Gophee_10, Emiris_10, ThreeOh3D2_10, Kailash_10, Charles1_10, Horchata_10, TooFast2Furius_11, Megatron_10, RedRaider89_11, Skippy_10, Usavi_10, QueenBeane_10, Swiphy_10, Omniscient_10, Zonia_10, Yoshand_10, FleetyMac_10, YouGoGlencoco_10, PG1_10, Eugenia_10, ShiVal_10, Murdoc_10, Aonishiki_10, KingVeVeVe_10, Iridoclysis_10, DoesntMatter_10, Nathan_10, ElvisPhasley_10, PhatCats2014_10, Numberten_10, Cobra_10, Serendipity_10
• Track 2 : Coletti_10, Flake_10, Chute_10, Chuni_10, Keitherie_10
• Track 3 : Compostia_13
• Track 4 : Davielle_162
• Track 5 : WhereRU_161
• Track 6 : Lozinak_50, Engineer_51, Smoothie_51
• Track 7 : Lysidious_72

• Track 8 : Walrus_68
• Track 9 : Sitar_50, Vivi2_54, Keitabear_50, Lennon_50, McCrothy_51, Angelicage_48
• Track 10 : Ailee_47, Kewpiedoll_51, Love_55, Shivanishola_50
• Track 11 : Baddon_49
• Track 12 : MoontowerMania_50
• Track 13 : Affeca_48
• Track 14 : JKSyngboy_47, Saronaya_49, Gustavo_49
• Track 15 : Bibwit_48, YorkOnyx_50
• Track 16 : Thing3_49, Kamashten_49
• Track 17 : Sedona_50
• Track 18 : Kwobi_51
• Track 19 : PhorbesPhlower_38
• Track 20 : MortyNRick_64
• Track 21 : Lutum_51, Kenna_50, Getalong_54, BENtherdunthat_51
• Track 22 : Apricot_49
• Track 23 : GMA6_89
• Track 24 : DalanDe_10
• Track 25 : Goku_81, Eureka_81, BaboJay_80, Manda_84
• Track 26 : SophKB_98
• Track 27 : Bogg_83
• Track 28 : KingJulian_64, Byougenkin_63
• Track 29 : Totinger_63, Emmaloid_65, Peridot_62, Slim_65, Plumbus_66
• Track 30 : LittleShirley_63
• Track 31 : Guppsters_64
• Track 32 : Kumotta_56
• Track 33 : Courthouse_162, Ariel_165
• Track 34 : Superphikiman_163
• Track 35 : Megiddo_61
• Track 36 : ThulaThula_69
• Track 37 : Phayonce_65
• Track 38 : Gudmit_38

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

The start number called the most often in the published annotations is 41, it was called in 157 of the 215 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ABU_10, Adriana_10, AltPhacts_10, Anderson_10, Andre_10, AngelCake_10, Aonishiki_10, Badfish_10, Basato_11, BlackStallion_10, BlueHusk_10, Boehler_10, Buckeye_10, CamL_10, CampRoach_10, Cannibal_10, Chah_10, Charles1_10, CheetO_10, Chipette_11, Chuni_10, Chunky_10, Chute_10, Cobra_10, Colbert_10, Coletti_10, Compostia_13, Craff_10, Daka_10, Dingo_10, DirtJuice_10, DoesntMatter_10, Durga_10, ElvisPhasley_10, Emiris_10, EmpTee_10, Eremos_10, Etaye_10, Eugenia_10, Fang_10, Flake_10, FleetyMac_10, FluffyNinja_10, Frankicide_10, FriarPreacher_10, Fringe_10, GeneCoco_10, Gophee_10, Gwennie1_10, Gwilliam_10, Gyarad_0010, HSavage_10, Haimas_10, Hamish_10, Hartsy_10, Harvey_10, Hertubise_10, Hetaeria_10, Horchata_10, Inchworm_10, Inverness_10, Iridoclysis_10, IsaacEli_10, JacAttac_10, JangoPhett_10,

KLucky39_10, Kailash_10, Katniss_10, Keitherie_10, Kikipoo_10, KingVeVeVe_10, KlimbOn_10, Kloppinator_10, LasagnaCat_10, Lasso_10, LeeLot_10, Lego3393_10, Lulwa_10, Magic8_10, Matalotodo_10, Megatron_10, Melc17_10, Mesh1_10, Mikota_10, MiniBoss_10, Morty_10, Murdoc_10, Nacho_0010, Nathan_10, Newman_10, Nicole21_10, Numberten_10, OSmaximus_10, Olive_10, OliverWalter_10, Omniscient_10, Oosterbaan_10, Orion_10, PG1_10, Phamished_10, PhatCats2014_10, PhatLouie_10, Pherdinand_10, Phipps_10, PhrodoBaggins_105, Phunky_10, Pipsqueak_10, Plmatters_10, Podrick_10, Pops_10, Prickles_10, ProfessorX_10, Puhltonio_10, QueenBeane_10, Quisquiliae_10, RedRaider89_11, Riggan_10, Riverton_10, Roliet_10, Roscoe_11, SDcharge11_10, Samaymay_10, Scoot17C_10, Serendipity_10, Serpentine_0010, ShadowBud_10, Sheila_10, ShiVal_10, Sigman_10, Skippy_10, Slatt_10, Soto_10, Spartan300_10, Suffolk_10, Surely_10, Swiphy_10, Swish_10, Thora_10, ThreeOh3D2_10, TomBombadil_10, Tomlarah_10, TooFast2Furius_11, Tooj_10, Trypo_10, UAch1_10, Usavi_10, Valjean_10, Virapocalypse_10, Vista_10, Vivaldi_10, Waterdiva_10, Weher20_10, Yoshand_10, YouGoGlencoco_10, Zaider_11, Zelda_10, Zonia_10,

Genes that have the "Most Annotated" start but do not call it:
• DalanDe_10,

Genes that do not have the "Most Annotated" start:
• Affeca_48, Ailee_47, Angelicage_48, Apricot_49, Ariel_165, BENtherdunthat_51, BaboJay_80, Baddon_49, Bibwit_48, Bogg_83, Byougenkin_63, Courthouse_162, Davielle_162, Emmaloid_65, Engineer_51, Eureka_81, GMA6_89, Getalong_54, Goku_81, Gudmit_38, Guppsters_64, Gustavo_49, JKSyngboy_47, Kamashten_49, Keitabear_50, Kenna_50, Kewpiedoll_51, KingJulian_64, Kumotta_56, Kwobi_51, Lennon_50, LittleShirley_63, Love_55, Lozinak_50, Lutum_51, Lysidious_72, Manda_84, McCrothy_51, Megiddo_61, MoontowerMania_50, MortyNRick_64, Peridot_62, Phayonce_65, PhorbesPhlower_38, Plumbus_66, Saronaya_49, Sedona_50, Shivanishola_50, Sitar_50, Slim_65, Smoothie_51, SophKB_98, Superphikiman_163, Thing3_49, ThulaThula_69, Totinger_63, Vivi2_54, Walrus_68, WhereRU_161, YorkOnyx_50,

Summary by start number:

Start 4:
• Found in 2 of 218 (0.9%) of genes in pham
• Manual Annotations of this start: 2 of 215
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Lysidious_72 (CV), Walrus_68 (CV),

Start 5:
• Found in 5 of 218 (2.3%) of genes in pham
• Manual Annotations of this start: 4 of 215
• Called 80.0% of time when present
• Phage (with cluster) where this start called: BENtherdunthat_51 (DN1), Getalong_54 (DN1), Kenna_50 (DN1), Lutum_51 (DN1),

Start 6:
• Found in 1 of 218 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 215
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Apricot_49 (DN3),

Start 7:
• Found in 1 of 218 (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: GMA6_89 (DQ),

Start 8:
• Found in 2 of 218 (0.9%) of genes in pham
• Manual Annotations of this start: 2 of 215
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Megiddo_61 (P1), ThulaThula_69 (P5),

Start 9:
• Found in 1 of 218 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 215
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Phayonce_65 (P5),

Start 15:
• Found in 10 of 218 (4.6%) of genes in pham
• Manual Annotations of this start: 5 of 215
• Called 60.0% of time when present
• Phage (with cluster) where this start called: Angelicage_48 (DE1), Keitabear_50 (DE1), Lennon_50 (DE1), McCrothy_51 (DE1), Sitar_50 (DE1), Vivi2_54 (DE1),

Start 17:
• Found in 1 of 218 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 215
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DalanDe_10 (DQ),

Start 21:
• Found in 3 of 218 (1.4%) of genes in pham
• Manual Annotations of this start: 2 of 215
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Ariel_165 (J), Courthouse_162 (J),

Start 23:
• Found in 22 of 218 (10.1%) of genes in pham
• Manual Annotations of this start: 16 of 215
• Called 72.7% of time when present
• Phage (with cluster) where this start called: Affeca_48 (DE1), Ailee_47 (DE1), Baddon_49 (DE1), Bibwit_48 (DE1), Gustavo_49 (DE1), JKSyngboy_47 (DE1), Kamashten_49 (DE1), Kewpiedoll_51 (DE1), Kwobi_51 (DE1), Love_55 (DE1), MoontowerMania_50 (DE1), Saronaya_49 (DE1), Sedona_50 (DE1), Shivanishola_50 (DE1), Thing3_49 (DE1), YorkOnyx_50 (DE1),

Start 27:
• Found in 10 of 218 (4.6%) of genes in pham
• Manual Annotations of this start: 10 of 215
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Byougenkin_63 (F1), Emmaloid_65 (F1), Guppsters_64 (F1), KingJulian_64 (F1), LittleShirley_63 (F1), MortyNRick_64 (DN), Peridot_62 (F1), Plumbus_66 (F1), Slim_65 (F1), Totinger_63 (F1),

Start 31:
• Found in 7 of 218 (3.2%) of genes in pham
• Manual Annotations of this start: 1 of 215
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Superphikiman_163 (J),

Start 33:
• Found in 1 of 218 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 215
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kumotta_56 (FB),

Start 36:
• Found in 1 of 218 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 215
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gudmit_38 (singleton),

Start 37:
• Found in 6 of 218 (2.8%) of genes in pham
• Manual Annotations of this start: 5 of 215
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BaboJay_80 (E), Bogg_83 (E), Eureka_81 (E), Goku_81 (E), Manda_84 (E), SophKB_98 (E),

Start 38:
• Found in 3 of 218 (1.4%) of genes in pham
• Manual Annotations of this start: 3 of 215
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Engineer_51 (CQ1), Lozinak_50 (CQ1), Smoothie_51 (CQ1),

Start 40:
• Found in 7 of 218 (3.2%) of genes in pham
• Manual Annotations of this start: 1 of 215
• Called 14.3% of time when present
• Phage (with cluster) where this start called: PhorbesPhlower_38 (DH),

Start 41:
• Found in 158 of 218 (72.5%) of genes in pham
• Manual Annotations of this start: 157 of 215
• Called 99.4% of time when present
• Phage (with cluster) where this start called: ABU_10 (B1), Adriana_10 (B1), AltPhacts_10 (B1), Anderson_10 (B1), Andre_10 (B1), AngelCake_10 (B1), Aonishiki_10 (B1), Badfish_10 (B1), Basato_11 (B1), BlackStallion_10 (B1), BlueHusk_10 (B1), Boehler_10 (B1), Buckeye_10 (B1), CamL_10 (B1), CampRoach_10 (B1), Cannibal_10 (B1), Chah_10 (B1), Charles1_10 (B1), CheetO_10 (B1), Chipette_11 (B1), Chuni_10 (B1), Chunky_10 (B1), Chute_10 (B1), Cobra_10 (B1), Colbert_10 (B1), Coletti_10 (B1), Compostia_13 (B3), Craff_10 (B1),

Daka_10 (B1), Dingo_10 (B1), DirtJuice_10 (B1), DoesntMatter_10 (B1), Durga_10 (B1), ElvisPhasley_10 (B1), Emiris_10 (B1), EmpTee_10 (B1), Eremos_10 (B1), Etaye_10 (B1), Eugenia_10 (B1), Fang_10 (B1), Flake_10 (B1), FleetyMac_10 (B1), FluffyNinja_10 (B1), Frankicide_10 (B1), FriarPreacher_10 (B1), Fringe_10 (B1), GeneCoco_10 (B1), Gophee_10 (B1), Gwennie1_10 (B1), Gwilliam_10 (B1), Gyarad_0010 (B1), HSavage_10 (B1), Haimas_10 (B1), Hamish_10 (B1), Hartsy_10 (B1), Harvey_10 (B1), Hertubise_10 (B1), Hetaeria_10 (B1), Horchata_10 (B1), Inchworm_10 (B1), Inverness_10 (B1), Iridoclysis_10 (B1), IsaacEli_10 (B1), JacAttac_10 (B1), JangoPhett_10 (B1), KLucky39_10 (B1), Kailash_10 (B1), Katniss_10 (B1), Keitherie_10 (B1), Kikipoo_10 (B1), KingVeVeVe_10 (B1), KlimbOn_10 (B1), Kloppinator_10 (B1), LasagnaCat_10 (B1), Lasso_10 (B1), LeeLot_10 (B1), Lego3393_10 (B1), Lulwa_10 (B1), Magic8_10 (B1), Matalotodo_10 (B1), Megatron_10 (B1), Melc17_10 (B1), Mesh1_10 (B1), Mikota_10 (B1), MiniBoss_10 (B1), Morty_10 (B1), Murdoc_10 (B1), Nacho_0010 (B1), Nathan_10 (B1), Newman_10 (B1), Nicole21_10 (B1), Numberten_10 (B1), OSmaximus_10 (B1), Olive_10 (B1), OliverWalter_10 (B1), Omniscient_10 (B1), Oosterbaan_10 (B1), Orion_10 (B1), PG1_10 (B1), Phamished_10 (B1), PhatCats2014_10 (B1), PhatLouie_10 (B1), Pherdinand_10 (B1), Phipps_10 (B1), PhrodoBaggins_105 (B1), Phunky_10 (B1), Pipsqueak_10 (B1), Plmatters_10 (B1), Podrick_10 (B1), Pops_10 (B1), Prickles_10 (B1), ProfessorX_10 (B1), Puhltonio_10 (B1), QueenBeane_10 (B1), Quisquiliae_10 (B1), RedRaider89_11 (B1), Riggan_10 (B1), Riverton_10 (B1), Roliet_10 (B1), Roscoe_11 (B1), SDcharge11_10 (B1), Samaymay_10 (B1), Scoot17C_10 (B1), Serendipity_10 (B1), Serpentine_0010 (B1), ShadowBud_10 (B1), Sheila_10 (B1), ShiVal_10 (B1), Sigman_10 (B1), Skippy_10 (B1), Slatt_10 (B1), Soto_10 (B1), Spartan300_10 (B1), Suffolk_10 (B1), Surely_10 (B1), Swiphy_10 (B1), Swish_10 (B1), Thora_10 (B1), ThreeOh3D2_10 (B1), TomBombadil_10 (B1), Tomlarah_10 (B1), TooFast2Furius_11 (B1), Tooj_10 (B1), Trypo_10 (B1), UAch1_10 (B1), Usavi_10 (B1), Valjean_10 (B1), Virapocalypse_10 (B1), Vista_10 (B1), Vivaldi_10 (B1), Waterdiva_10 (B1), Weher20_10 (B1), Yoshand_10 (B1), YouGoGlencoco_10 (B1), Zaider_11 (B1), Zelda_10 (B1), Zonia_10 (B1),

Start 42:
• Found in 2 of 218 (0.9%) of genes in pham
• Manual Annotations of this start: 1 of 215
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Davielle_162 (BE1),

Start 44:
• Found in 2 of 218 (0.9%) of genes in pham
• Manual Annotations of this start: 1 of 215
• Called 50.0% of time when present
• Phage (with cluster) where this start called: WhereRU_161 (BE1),

Summary by clusters:

There are 18 clusters represented in this pham: DN, F1, singleton, P1, E, DH, P5, DE1, J, FB, DN1, B1, DN3, B3, CQ1, BE1, CV, DQ,

Info for manual annotations of cluster B1:
•Start number 41 was manually annotated 156 times for cluster B1.

Info for manual annotations of cluster B3:
•Start number 41 was manually annotated 1 time for cluster B3.

Info for manual annotations of cluster BE1:
•Start number 42 was manually annotated 1 time for cluster BE1.
•Start number 44 was manually annotated 1 time for cluster BE1.

Info for manual annotations of cluster CQ1:
•Start number 38 was manually annotated 3 times for cluster CQ1.

Info for manual annotations of cluster CV:
•Start number 4 was manually annotated 2 times for cluster CV.

Info for manual annotations of cluster DE1:
•Start number 15 was manually annotated 5 times for cluster DE1.
•Start number 23 was manually annotated 16 times for cluster DE1.

Info for manual annotations of cluster DH:
•Start number 40 was manually annotated 1 time for cluster DH.

Info for manual annotations of cluster DN:
•Start number 27 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN1:
•Start number 5 was manually annotated 4 times for cluster DN1.

Info for manual annotations of cluster DN3:
•Start number 6 was manually annotated 1 time for cluster DN3.

Info for manual annotations of cluster DQ:
•Start number 17 was manually annotated 1 time for cluster DQ.

Info for manual annotations of cluster E:
•Start number 37 was manually annotated 5 times for cluster E.

Info for manual annotations of cluster F1:
•Start number 27 was manually annotated 9 times for cluster F1.

Info for manual annotations of cluster FB:
•Start number 33 was manually annotated 1 time for cluster FB.

Info for manual annotations of cluster J:
•Start number 21 was manually annotated 2 times for cluster J.
•Start number 31 was manually annotated 1 time for cluster J.

Info for manual annotations of cluster P1:
•Start number 8 was manually annotated 1 time for cluster P1.

Info for manual annotations of cluster P5:
•Start number 8 was manually annotated 1 time for cluster P5.
•Start number 9 was manually annotated 1 time for cluster P5.

Gene Information:

Gene: ABU_10 Start: 8941, Stop: 9375, Start Num: 41
Candidate Starts for ABU_10:
(Start: 41 @8941 has 157 MA's), (49, 8980), (54, 9004), (65, 9085), (79, 9175), (90, 9238),

Gene: Adriana_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Adriana_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Affeca_48 Start: 42397, Stop: 42915, Start Num: 23
Candidate Starts for Affeca_48:
(10, 42385), (Start: 23 @42397 has 16 MA's), (68, 42613), (82, 42703), (85, 42715),

Gene: Ailee_47 Start: 42002, Stop: 42520, Start Num: 23
Candidate Starts for Ailee_47:
(10, 41990), (Start: 15 @41999 has 5 MA's), (Start: 23 @42002 has 16 MA's), (68, 42218), (82, 42308), (85, 42320),

Gene: AltPhacts_10 Start: 8944, Stop: 9378, Start Num: 41
Candidate Starts for AltPhacts_10:
(Start: 41 @8944 has 157 MA's), (49, 8983), (54, 9007), (65, 9088), (79, 9178), (90, 9241),

Gene: Anderson_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Anderson_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Andre_10 Start: 8944, Stop: 9378, Start Num: 41
Candidate Starts for Andre_10:
(Start: 41 @8944 has 157 MA's), (49, 8983), (54, 9007), (65, 9088), (79, 9178), (90, 9241),

Gene: AngelCake_10 Start: 8940, Stop: 9374, Start Num: 41
Candidate Starts for AngelCake_10:
(Start: 41 @8940 has 157 MA's), (49, 8979), (54, 9003), (65, 9084), (79, 9174), (90, 9237),

Gene: Angelicage_48 Start: 42812, Stop: 43333, Start Num: 15
Candidate Starts for Angelicage_48:
(10, 42803), (Start: 15 @42812 has 5 MA's), (Start: 23 @42815 has 16 MA's), (68, 43031), (82, 43121), (85, 43133),

Gene: Aonishiki_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Aonishiki_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Apricot_49 Start: 33085, Stop: 32453, Start Num: 6
Candidate Starts for Apricot_49:
(Start: 6 @33085 has 1 MA's), (Start: 40 @32965 has 1 MA's), (58, 32854), (63, 32812), (65, 32806), (71, 32773), (81, 32695), (84, 32683), (86, 32674), (88, 32662), (96, 32617), (104, 32530), (105, 32515), (106, 32509), (107, 32503), (114, 32464),

Gene: Ariel_165 Start: 84168, Stop: 84737, Start Num: 21
Candidate Starts for Ariel_165:
(Start: 21 @84168 has 2 MA's), (Start: 31 @84210 has 1 MA's), (35, 84225), (74, 84447), (82, 84504), (87, 84525),

Gene: BENtherdunthat_51 Start: 33462, Stop: 32830, Start Num: 5
Candidate Starts for BENtherdunthat_51:
(Start: 5 @33462 has 4 MA's), (24, 33399), (Start: 40 @33342 has 1 MA's), (58, 33231), (63, 33189), (65, 33183), (71, 33150), (75, 33123), (81, 33072), (83, 33066), (88, 33039), (96, 32994), (104, 32907), (106, 32886), (107, 32880), (114, 32841),

Gene: BaboJay_80 Start: 51126, Stop: 51572, Start Num: 37
Candidate Starts for BaboJay_80:
(Start: 31 @51102 has 1 MA's), (Start: 37 @51126 has 5 MA's), (50, 51180), (73, 51339), (79, 51378), (81, 51399), (100, 51510),

Gene: Baddon_49 Start: 43084, Stop: 43602, Start Num: 23
Candidate Starts for Baddon_49:
(Start: 23 @43084 has 16 MA's), (30, 43114), (68, 43300), (82, 43390), (85, 43402), (112, 43597),

Gene: Badfish_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Badfish_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Basato_11 Start: 9177, Stop: 9611, Start Num: 41
Candidate Starts for Basato_11:
(Start: 41 @9177 has 157 MA's), (49, 9216), (54, 9240), (65, 9321), (79, 9411), (90, 9474),

Gene: Bibwit_48 Start: 41643, Stop: 42161, Start Num: 23
Candidate Starts for Bibwit_48:
(Start: 23 @41643 has 16 MA's), (30, 41673), (68, 41859), (82, 41949), (85, 41961),

Gene: BlackStallion_10 Start: 8941, Stop: 9375, Start Num: 41
Candidate Starts for BlackStallion_10:
(Start: 41 @8941 has 157 MA's), (49, 8980), (54, 9004), (65, 9085), (79, 9175), (90, 9238),

Gene: BlueHusk_10 Start: 8940, Stop: 9374, Start Num: 41
Candidate Starts for BlueHusk_10:
(Start: 41 @8940 has 157 MA's), (49, 8979), (54, 9003), (65, 9084), (79, 9174), (90, 9237),

Gene: Boehler_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Boehler_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Bogg_83 Start: 50869, Stop: 51315, Start Num: 37
Candidate Starts for Bogg_83:
(Start: 37 @50869 has 5 MA's), (50, 50923), (73, 51082), (79, 51121), (81, 51142), (100, 51253),

Gene: Buckeye_10 Start: 8945, Stop: 9379, Start Num: 41
Candidate Starts for Buckeye_10:
(Start: 41 @8945 has 157 MA's), (49, 8984), (54, 9008), (65, 9089), (79, 9179), (90, 9242),

Gene: Byougenkin_63 Start: 41134, Stop: 41616, Start Num: 27
Candidate Starts for Byougenkin_63:
(Start: 27 @41134 has 10 MA's), (47, 41218), (89, 41461), (95, 41500), (101, 41542),

Gene: CamL_10 Start: 8940, Stop: 9374, Start Num: 41
Candidate Starts for CamL_10:

(Start: 41 @8940 has 157 MA's), (49, 8979), (54, 9003), (65, 9084), (79, 9174), (90, 9237),

Gene: CampRoach_10 Start: 8940, Stop: 9374, Start Num: 41
Candidate Starts for CampRoach_10:
(Start: 41 @8940 has 157 MA's), (49, 8979), (54, 9003), (65, 9084), (79, 9174), (90, 9237),

Gene: Cannibal_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Cannibal_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Chah_10 Start: 8941, Stop: 9375, Start Num: 41
Candidate Starts for Chah_10:
(Start: 41 @8941 has 157 MA's), (49, 8980), (54, 9004), (65, 9085), (79, 9175), (90, 9238),

Gene: Charles1_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Charles1_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: CheetO_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for CheetO_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Chipette_11 Start: 9178, Stop: 9612, Start Num: 41
Candidate Starts for Chipette_11:
(Start: 41 @9178 has 157 MA's), (49, 9217), (54, 9241), (65, 9322), (79, 9412), (90, 9475),

Gene: Chuni_10 Start: 8959, Stop: 9393, Start Num: 41
Candidate Starts for Chuni_10:
(Start: 41 @8959 has 157 MA's), (49, 8998), (54, 9022), (55, 9025), (65, 9103), (79, 9193), (90, 9256),

Gene: Chunky_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Chunky_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Chute_10 Start: 8958, Stop: 9392, Start Num: 41
Candidate Starts for Chute_10:
(Start: 41 @8958 has 157 MA's), (49, 8997), (54, 9021), (55, 9024), (65, 9102), (79, 9192), (90, 9255),

Gene: Cobra_10 Start: 8940, Stop: 9374, Start Num: 41
Candidate Starts for Cobra_10:
(Start: 41 @8940 has 157 MA's), (49, 8979), (54, 9003), (65, 9084), (79, 9174), (90, 9237),

Gene: Colbert_10 Start: 8940, Stop: 9374, Start Num: 41
Candidate Starts for Colbert_10:
(Start: 41 @8940 has 157 MA's), (49, 8979), (54, 9003), (65, 9084), (79, 9174), (90, 9237),

Gene: Coletti_10 Start: 8958, Stop: 9392, Start Num: 41
Candidate Starts for Coletti_10:
(Start: 41 @8958 has 157 MA's), (49, 8997), (54, 9021), (55, 9024), (65, 9102), (79, 9192), (90, 9255),

Gene: Compostia_13 Start: 10667, Stop: 11107, Start Num: 41
Candidate Starts for Compostia_13:
(Start: 41 @10667 has 157 MA's), (78, 10889), (82, 10919), (86, 10937), (108, 11102),

Gene: Courthouse_162 Start: 84612, Stop: 85181, Start Num: 21
Candidate Starts for Courthouse_162:
(Start: 21 @84612 has 2 MA's), (Start: 31 @84654 has 1 MA's), (35, 84669), (74, 84891), (82, 84948), (87, 84969),

Gene: Craff_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Craff_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Daka_10 Start: 8946, Stop: 9380, Start Num: 41
Candidate Starts for Daka_10:
(Start: 41 @8946 has 157 MA's), (49, 8985), (54, 9009), (65, 9090), (79, 9180), (90, 9243),

Gene: DalanDe_10 Start: 6059, Stop: 6628, Start Num: 17
Candidate Starts for DalanDe_10:
(Start: 17 @6059 has 1 MA's), (26, 6083), (Start: 41 @6149 has 157 MA's), (46, 6173), (53, 6212), (74, 6356), (75, 6359), (79, 6392), (91, 6461),

Gene: Davielle_162 Start: 91589, Stop: 92011, Start Num: 42
Candidate Starts for Davielle_162:
(Start: 42 @91589 has 1 MA's), (Start: 44 @91595 has 1 MA's), (51, 91625), (62, 91694), (76, 91781), (87, 91847),

Gene: Dingo_10 Start: 8940, Stop: 9374, Start Num: 41
Candidate Starts for Dingo_10:
(Start: 41 @8940 has 157 MA's), (49, 8979), (54, 9003), (65, 9084), (79, 9174), (90, 9237),

Gene: DirtJuice_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for DirtJuice_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: DoesntMatter_10 Start: 8940, Stop: 9374, Start Num: 41
Candidate Starts for DoesntMatter_10:
(Start: 41 @8940 has 157 MA's), (49, 8979), (54, 9003), (65, 9084), (79, 9174), (90, 9237),

Gene: Durga_10 Start: 8957, Stop: 9391, Start Num: 41
Candidate Starts for Durga_10:
(Start: 41 @8957 has 157 MA's), (49, 8996), (54, 9020), (65, 9101), (79, 9191), (90, 9254),

Gene: ElvisPhasley_10 Start: 8944, Stop: 9378, Start Num: 41
Candidate Starts for ElvisPhasley_10:
(Start: 41 @8944 has 157 MA's), (49, 8983), (54, 9007), (65, 9088), (79, 9178), (90, 9241),

Gene: Emiris_10 Start: 8944, Stop: 9378, Start Num: 41
Candidate Starts for Emiris_10:
(Start: 41 @8944 has 157 MA's), (49, 8983), (54, 9007), (65, 9088), (79, 9178), (90, 9241),

Gene: Emmaloid_65 Start: 42008, Stop: 42490, Start Num: 27
Candidate Starts for Emmaloid_65:
(Start: 27 @42008 has 10 MA's), (47, 42092), (89, 42335), (95, 42374), (101, 42416),

Gene: EmpTee_10 Start: 8944, Stop: 9378, Start Num: 41

Candidate Starts for EmpTee_10:
(Start: 41 @8944 has 157 MA's), (49, 8983), (54, 9007), (65, 9088), (79, 9178), (90, 9241),

Gene: Engineer_51 Start: 31923, Stop: 32384, Start Num: 38
Candidate Starts for Engineer_51:
(Start: 38 @31923 has 3 MA's), (59, 32031), (67, 32070), (70, 32082), (77, 32130), (79, 32142), (85, 32178), (110, 32367), (111, 32370),

Gene: Eremos_10 Start: 8937, Stop: 9371, Start Num: 41
Candidate Starts for Eremos_10:
(Start: 41 @8937 has 157 MA's), (49, 8976), (54, 9000), (65, 9081), (79, 9171), (90, 9234),

Gene: Etaye_10 Start: 8940, Stop: 9374, Start Num: 41
Candidate Starts for Etaye_10:
(Start: 41 @8940 has 157 MA's), (49, 8979), (54, 9003), (65, 9084), (79, 9174), (90, 9237),

Gene: Eugenia_10 Start: 8944, Stop: 9378, Start Num: 41
Candidate Starts for Eugenia_10:
(Start: 41 @8944 has 157 MA's), (49, 8983), (54, 9007), (65, 9088), (79, 9178), (90, 9241),

Gene: Eureka_81 Start: 51417, Stop: 51863, Start Num: 37
Candidate Starts for Eureka_81:
(Start: 31 @51393 has 1 MA's), (Start: 37 @51417 has 5 MA's), (50, 51471), (73, 51630), (79, 51669), (81, 51690), (100, 51801),

Gene: Fang_10 Start: 8944, Stop: 9378, Start Num: 41
Candidate Starts for Fang_10:
(Start: 41 @8944 has 157 MA's), (49, 8983), (54, 9007), (65, 9088), (79, 9178), (90, 9241),

Gene: Flake_10 Start: 8960, Stop: 9394, Start Num: 41
Candidate Starts for Flake_10:
(Start: 41 @8960 has 157 MA's), (49, 8999), (54, 9023), (55, 9026), (65, 9104), (79, 9194), (90, 9257),

Gene: FleetyMac_10 Start: 8941, Stop: 9375, Start Num: 41
Candidate Starts for FleetyMac_10:
(Start: 41 @8941 has 157 MA's), (49, 8980), (54, 9004), (65, 9085), (79, 9175), (90, 9238),

Gene: FluffyNinja_10 Start: 8941, Stop: 9375, Start Num: 41
Candidate Starts for FluffyNinja_10:
(Start: 41 @8941 has 157 MA's), (49, 8980), (54, 9004), (65, 9085), (79, 9175), (90, 9238),

Gene: Frankicide_10 Start: 8945, Stop: 9379, Start Num: 41
Candidate Starts for Frankicide_10:
(Start: 41 @8945 has 157 MA's), (49, 8984), (54, 9008), (65, 9089), (79, 9179), (90, 9242),

Gene: FriarPreacher_10 Start: 8946, Stop: 9380, Start Num: 41
Candidate Starts for FriarPreacher_10:
(Start: 41 @8946 has 157 MA's), (49, 8985), (54, 9009), (65, 9090), (79, 9180), (90, 9243),

Gene: Fringe_10 Start: 8941, Stop: 9375, Start Num: 41
Candidate Starts for Fringe_10:
(Start: 41 @8941 has 157 MA's), (49, 8980), (54, 9004), (65, 9085), (79, 9175), (90, 9238),

Gene: GMA6_89 Start: 67162, Stop: 67716, Start Num: 7
Candidate Starts for GMA6_89:
(7, 67162), (14, 67186), (25, 67222), (Start: 40 @67282 has 1 MA's), (43, 67294), (52, 67351), (57, 67390), (66, 67453), (69, 67474), (73, 67501), (94, 67627), (95, 67630), (97, 67645),

Gene: GeneCoco_10 Start: 8949, Stop: 9383, Start Num: 41
Candidate Starts for GeneCoco_10:
(Start: 41 @8949 has 157 MA's), (49, 8988), (54, 9012), (65, 9093), (79, 9183), (90, 9246),

Gene: Getalong_54 Start: 36463, Stop: 35831, Start Num: 5
Candidate Starts for Getalong_54:
(Start: 5 @36463 has 4 MA's), (24, 36400), (Start: 40 @36343 has 1 MA's), (58, 36232), (63, 36190), (65, 36184), (71, 36151), (75, 36124), (81, 36073), (83, 36067), (88, 36040), (96, 35995), (104, 35908), (106, 35887), (107, 35881), (114, 35842),

Gene: Goku_81 Start: 51146, Stop: 51592, Start Num: 37
Candidate Starts for Goku_81:
(Start: 31 @51122 has 1 MA's), (Start: 37 @51146 has 5 MA's), (50, 51200), (73, 51359), (79, 51398), (81, 51419), (100, 51530),

Gene: Gophee_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Gophee_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Gudmit_38 Start: 27363, Stop: 27896, Start Num: 36
Candidate Starts for Gudmit_38:
(Start: 36 @27363 has 1 MA's), (45, 27390), (92, 27666), (99, 27711),

Gene: Guppsters_64 Start: 40923, Stop: 41405, Start Num: 27
Candidate Starts for Guppsters_64:
(Start: 27 @40923 has 10 MA's), (47, 41007), (89, 41250), (95, 41289), (101, 41331),

Gene: Gustavo_49 Start: 42016, Stop: 42534, Start Num: 23
Candidate Starts for Gustavo_49:
(Start: 23 @42016 has 16 MA's), (30, 42046), (68, 42232), (82, 42322), (85, 42334), (112, 42529),

Gene: Gwennie1_10 Start: 8961, Stop: 9395, Start Num: 41
Candidate Starts for Gwennie1_10:
(Start: 41 @8961 has 157 MA's), (49, 9000), (54, 9024), (65, 9105), (79, 9195), (90, 9258),

Gene: Gwilliam_10 Start: 8940, Stop: 9374, Start Num: 41
Candidate Starts for Gwilliam_10:
(Start: 41 @8940 has 157 MA's), (49, 8979), (54, 9003), (65, 9084), (79, 9174), (90, 9237),

Gene: Gyarad_0010 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Gyarad_0010:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: HSavage_10 Start: 8945, Stop: 9379, Start Num: 41
Candidate Starts for HSavage_10:
(Start: 41 @8945 has 157 MA's), (49, 8984), (54, 9008), (65, 9089), (79, 9179), (90, 9242),

Gene: Haimas_10 Start: 8943, Stop: 9377, Start Num: 41

Candidate Starts for Haimas_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Hamish_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Hamish_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Hartsy_10 Start: 8940, Stop: 9374, Start Num: 41
Candidate Starts for Hartsy_10:
(Start: 41 @8940 has 157 MA's), (49, 8979), (54, 9003), (65, 9084), (79, 9174), (90, 9237),

Gene: Harvey_10 Start: 8944, Stop: 9378, Start Num: 41
Candidate Starts for Harvey_10:
(Start: 41 @8944 has 157 MA's), (49, 8983), (54, 9007), (65, 9088), (79, 9178), (90, 9241),

Gene: Hertubise_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Hertubise_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Hetaeria_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Hetaeria_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Horchata_10 Start: 8942, Stop: 9376, Start Num: 41
Candidate Starts for Horchata_10:
(Start: 41 @8942 has 157 MA's), (49, 8981), (54, 9005), (65, 9086), (79, 9176), (90, 9239),

Gene: Inchworm_10 Start: 8940, Stop: 9374, Start Num: 41
Candidate Starts for Inchworm_10:
(Start: 41 @8940 has 157 MA's), (49, 8979), (54, 9003), (65, 9084), (79, 9174), (90, 9237),

Gene: Inverness_10 Start: 8945, Stop: 9379, Start Num: 41
Candidate Starts for Inverness_10:
(Start: 41 @8945 has 157 MA's), (49, 8984), (54, 9008), (65, 9089), (79, 9179), (90, 9242),

Gene: Iridoclysis_10 Start: 8947, Stop: 9381, Start Num: 41
Candidate Starts for Iridoclysis_10:
(Start: 41 @8947 has 157 MA's), (49, 8986), (54, 9010), (65, 9091), (79, 9181), (90, 9244),

Gene: IsaacEli_10 Start: 8940, Stop: 9374, Start Num: 41
Candidate Starts for IsaacEli_10:
(Start: 41 @8940 has 157 MA's), (49, 8979), (54, 9003), (65, 9084), (79, 9174), (90, 9237),

Gene: JKSyngboy_47 Start: 42615, Stop: 43133, Start Num: 23
Candidate Starts for JKSyngboy_47:
(Start: 23 @42615 has 16 MA's), (30, 42645), (68, 42831), (82, 42921), (85, 42933), (112, 43128),

Gene: JacAttac_10 Start: 8940, Stop: 9374, Start Num: 41
Candidate Starts for JacAttac_10:
(Start: 41 @8940 has 157 MA's), (49, 8979), (54, 9003), (65, 9084), (79, 9174), (90, 9237),

Gene: JangoPhett_10 Start: 8941, Stop: 9375, Start Num: 41
Candidate Starts for JangoPhett_10:

(Start: 41 @8941 has 157 MA's), (49, 8980), (54, 9004), (65, 9085), (79, 9175), (90, 9238),

Gene: KLucky39_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for KLucky39_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Kailash_10 Start: 8952, Stop: 9386, Start Num: 41
Candidate Starts for Kailash_10:
(Start: 41 @8952 has 157 MA's), (49, 8991), (54, 9015), (65, 9096), (79, 9186), (90, 9249),

Gene: Kamashten_49 Start: 42108, Stop: 42626, Start Num: 23
Candidate Starts for Kamashten_49:
(Start: 23 @42108 has 16 MA's), (68, 42324), (82, 42414), (85, 42426),

Gene: Katniss_10 Start: 8944, Stop: 9378, Start Num: 41
Candidate Starts for Katniss_10:
(Start: 41 @8944 has 157 MA's), (49, 8983), (54, 9007), (65, 9088), (79, 9178), (90, 9241),

Gene: Keitabear_50 Start: 43627, Stop: 44148, Start Num: 15
Candidate Starts for Keitabear_50:
(10, 43618), (Start: 15 @43627 has 5 MA's), (Start: 23 @43630 has 16 MA's), (68, 43846), (82, 43936), (85, 43948),

Gene: Keitherie_10 Start: 8957, Stop: 9391, Start Num: 41
Candidate Starts for Keitherie_10:
(Start: 41 @8957 has 157 MA's), (49, 8996), (54, 9020), (55, 9023), (65, 9101), (79, 9191), (90, 9254),

Gene: Kenna_50 Start: 34206, Stop: 33574, Start Num: 5
Candidate Starts for Kenna_50:
(Start: 5 @34206 has 4 MA's), (24, 34143), (Start: 40 @34086 has 1 MA's), (58, 33975), (63, 33933), (65, 33927), (71, 33894), (75, 33867), (81, 33816), (83, 33810), (88, 33783), (96, 33738), (104, 33651), (106, 33630), (107, 33624), (114, 33585),

Gene: Kewpiedoll_51 Start: 43059, Stop: 43577, Start Num: 23
Candidate Starts for Kewpiedoll_51:
(10, 43047), (Start: 15 @43056 has 5 MA's), (Start: 23 @43059 has 16 MA's), (68, 43275), (82, 43365), (85, 43377),

Gene: Kikipoo_10 Start: 8940, Stop: 9374, Start Num: 41
Candidate Starts for Kikipoo_10:
(Start: 41 @8940 has 157 MA's), (49, 8979), (54, 9003), (65, 9084), (79, 9174), (90, 9237),

Gene: KingJulian_64 Start: 40426, Stop: 40908, Start Num: 27
Candidate Starts for KingJulian_64:
(Start: 27 @40426 has 10 MA's), (47, 40510), (89, 40753), (95, 40792), (101, 40834),

Gene: KingVeVeVe_10 Start: 8944, Stop: 9378, Start Num: 41
Candidate Starts for KingVeVeVe_10:
(Start: 41 @8944 has 157 MA's), (49, 8983), (54, 9007), (65, 9088), (79, 9178), (90, 9241),

Gene: KlimbOn_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for KlimbOn_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Kloppinator_10 Start: 8941, Stop: 9375, Start Num: 41
Candidate Starts for Kloppinator_10:
(Start: 41 @8941 has 157 MA's), (49, 8980), (54, 9004), (65, 9085), (79, 9175), (90, 9238),

Gene: Kumotta_56 Start: 32485, Stop: 32964, Start Num: 33
Candidate Starts for Kumotta_56:
(Start: 5 @32380 has 4 MA's), (32, 32479), (Start: 33 @32485 has 1 MA's), (71, 32686), (72, 32701), (79, 32743), (93, 32827),

Gene: Kwobi_51 Start: 42725, Stop: 43243, Start Num: 23
Candidate Starts for Kwobi_51:
(Start: 23 @42725 has 16 MA's), (30, 42755), (68, 42941), (82, 43031), (85, 43043),

Gene: LasagnaCat_10 Start: 8952, Stop: 9386, Start Num: 41
Candidate Starts for LasagnaCat_10:
(Start: 41 @8952 has 157 MA's), (49, 8991), (54, 9015), (65, 9096), (79, 9186), (90, 9249),

Gene: Lasso_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Lasso_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: LeeLot_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for LeeLot_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Lego3393_10 Start: 8941, Stop: 9375, Start Num: 41
Candidate Starts for Lego3393_10:
(Start: 41 @8941 has 157 MA's), (49, 8980), (54, 9004), (65, 9085), (79, 9175), (90, 9238),

Gene: Lennon_50 Start: 43707, Stop: 44228, Start Num: 15
Candidate Starts for Lennon_50:
(10, 43698), (Start: 15 @43707 has 5 MA's), (Start: 23 @43710 has 16 MA's), (68, 43926), (82, 44016), (85, 44028),

Gene: LittleShirley_63 Start: 41739, Stop: 42221, Start Num: 27
Candidate Starts for LittleShirley_63:
(Start: 27 @41739 has 10 MA's), (47, 41823), (84, 42048), (89, 42066), (95, 42105), (101, 42147),

Gene: Love_55 Start: 44334, Stop: 44852, Start Num: 23
Candidate Starts for Love_55:
(10, 44322), (Start: 15 @44331 has 5 MA's), (Start: 23 @44334 has 16 MA's), (68, 44550), (82, 44640), (85, 44652),

Gene: Lozinak_50 Start: 31978, Stop: 32439, Start Num: 38
Candidate Starts for Lozinak_50:
(Start: 38 @31978 has 3 MA's), (59, 32086), (67, 32125), (70, 32137), (77, 32185), (79, 32197), (85, 32233), (110, 32422), (111, 32425),

Gene: Lulwa_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Lulwa_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Lutum_51 Start: 34206, Stop: 33574, Start Num: 5
Candidate Starts for Lutum_51:
(Start: 5 @34206 has 4 MA's), (24, 34143), (Start: 40 @34086 has 1 MA's), (58, 33975), (63, 33933), (65, 33927), (71, 33894), (75, 33867), (81, 33816), (83, 33810), (88, 33783), (96, 33738), (104, 33651), (106, 33630), (107, 33624), (114, 33585),

Gene: Lysidious_72 Start: 45013, Stop: 45621, Start Num: 4
Candidate Starts for Lysidious_72:
(Start: 4 @45013 has 2 MA's), (11, 45040), (24, 45079), (39, 45139), (60, 45256), (61, 45262), (74, 45343), (75, 45346), (103, 45520), (104, 45553), (113, 45604),

Gene: Magic8_10 Start: 8940, Stop: 9374, Start Num: 41
Candidate Starts for Magic8_10:
(Start: 41 @8940 has 157 MA's), (49, 8979), (54, 9003), (65, 9084), (79, 9174), (90, 9237),

Gene: Manda_84 Start: 52535, Stop: 52981, Start Num: 37
Candidate Starts for Manda_84:
(Start: 31 @52511 has 1 MA's), (Start: 37 @52535 has 5 MA's), (50, 52589), (73, 52748), (79, 52787), (81, 52808), (100, 52919),

Gene: Matalotodo_10 Start: 8944, Stop: 9378, Start Num: 41
Candidate Starts for Matalotodo_10:
(Start: 41 @8944 has 157 MA's), (49, 8983), (54, 9007), (65, 9088), (79, 9178), (90, 9241),

Gene: McCrothy_51 Start: 43461, Stop: 43982, Start Num: 15
Candidate Starts for McCrothy_51:
(10, 43452), (Start: 15 @43461 has 5 MA's), (Start: 23 @43464 has 16 MA's), (68, 43680), (82, 43770), (85, 43782),

Gene: Megatron_10 Start: 8940, Stop: 9374, Start Num: 41
Candidate Starts for Megatron_10:
(Start: 41 @8940 has 157 MA's), (49, 8979), (54, 9003), (65, 9084), (79, 9174), (90, 9237),

Gene: Megiddo_61 Start: 41199, Stop: 41795, Start Num: 8
Candidate Starts for Megiddo_61:
(1, 41016), (3, 41172), (Start: 8 @41199 has 2 MA's), (13, 41220), (24, 41256), (28, 41271), (39, 41316), (48, 41355), (86, 41595), (92, 41634), (98, 41670), (104, 41736), (107, 41763),

Gene: Melc17_10 Start: 8940, Stop: 9374, Start Num: 41
Candidate Starts for Melc17_10:
(Start: 41 @8940 has 157 MA's), (49, 8979), (54, 9003), (65, 9084), (79, 9174), (90, 9237),

Gene: Mesh1_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Mesh1_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Mikota_10 Start: 8941, Stop: 9375, Start Num: 41
Candidate Starts for Mikota_10:
(Start: 41 @8941 has 157 MA's), (49, 8980), (54, 9004), (65, 9085), (79, 9175), (90, 9238),

Gene: MiniBoss_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for MiniBoss_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: MoontowerMania_50 Start: 43336, Stop: 43860, Start Num: 23
Candidate Starts for MoontowerMania_50:
(19, 43324), (22, 43333), (Start: 23 @43336 has 16 MA's), (68, 43558), (82, 43648), (85, 43660),

Gene: Morty_10 Start: 8940, Stop: 9374, Start Num: 41
Candidate Starts for Morty_10:
(Start: 41 @8940 has 157 MA's), (49, 8979), (54, 9003), (65, 9084), (79, 9174), (90, 9237),

Gene: MortyNRick_64 Start: 42082, Stop: 42537, Start Num: 27
Candidate Starts for MortyNRick_64:
(Start: 27 @42082 has 10 MA's), (34, 42106), (56, 42211), (70, 42283), (102, 42475),

Gene: Murdoc_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Murdoc_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Nacho_0010 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Nacho_0010:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Nathan_10 Start: 8941, Stop: 9375, Start Num: 41
Candidate Starts for Nathan_10:
(Start: 41 @8941 has 157 MA's), (49, 8980), (54, 9004), (65, 9085), (79, 9175), (90, 9238),

Gene: Newman_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Newman_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Nicole21_10 Start: 8941, Stop: 9375, Start Num: 41
Candidate Starts for Nicole21_10:
(Start: 41 @8941 has 157 MA's), (49, 8980), (54, 9004), (65, 9085), (79, 9175), (90, 9238),

Gene: Numberten_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Numberten_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: OSmaximus_10 Start: 8941, Stop: 9375, Start Num: 41
Candidate Starts for OSmaximus_10:
(Start: 41 @8941 has 157 MA's), (49, 8980), (54, 9004), (65, 9085), (79, 9175), (90, 9238),

Gene: Olive_10 Start: 8940, Stop: 9374, Start Num: 41
Candidate Starts for Olive_10:
(Start: 41 @8940 has 157 MA's), (49, 8979), (54, 9003), (65, 9084), (79, 9174), (90, 9237),

Gene: OliverWalter_10 Start: 8939, Stop: 9373, Start Num: 41
Candidate Starts for OliverWalter_10:
(Start: 41 @8939 has 157 MA's), (49, 8978), (54, 9002), (65, 9083), (79, 9173), (90, 9236),

Gene: Omniscient_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Omniscient_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Oosterbaan_10 Start: 8944, Stop: 9378, Start Num: 41
Candidate Starts for Oosterbaan_10:
(Start: 41 @8944 has 157 MA's), (49, 8983), (54, 9007), (65, 9088), (79, 9178), (90, 9241),

Gene: Orion_10 Start: 8941, Stop: 9375, Start Num: 41
Candidate Starts for Orion_10:
(Start: 41 @8941 has 157 MA's), (49, 8980), (54, 9004), (65, 9085), (79, 9175), (90, 9238),

Gene: PG1_10 Start: 8941, Stop: 9375, Start Num: 41
Candidate Starts for PG1_10:
(Start: 41 @8941 has 157 MA's), (49, 8980), (54, 9004), (65, 9085), (79, 9175), (90, 9238),

Gene: Peridot_62 Start: 40658, Stop: 41140, Start Num: 27
Candidate Starts for Peridot_62:
(Start: 27 @40658 has 10 MA's), (47, 40742), (89, 40985), (95, 41024), (101, 41066),

Gene: Phamished_10 Start: 8940, Stop: 9374, Start Num: 41
Candidate Starts for Phamished_10:
(Start: 41 @8940 has 157 MA's), (49, 8979), (54, 9003), (65, 9084), (79, 9174), (90, 9237),

Gene: PhatCats2014_10 Start: 8944, Stop: 9378, Start Num: 41
Candidate Starts for PhatCats2014_10:
(Start: 41 @8944 has 157 MA's), (49, 8983), (54, 9007), (65, 9088), (79, 9178), (90, 9241),

Gene: PhatLouie_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for PhatLouie_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Phayonce_65 Start: 43286, Stop: 43876, Start Num: 9
Candidate Starts for Phayonce_65:
(Start: 9 @43286 has 1 MA's), (12, 43298), (20, 43322), (29, 43364), (48, 43436), (86, 43676), (92, 43715), (98, 43751), (104, 43817), (107, 43844),

Gene: Pherdinand_10 Start: 8941, Stop: 9375, Start Num: 41
Candidate Starts for Pherdinand_10:
(Start: 41 @8941 has 157 MA's), (49, 8980), (54, 9004), (65, 9085), (79, 9175), (90, 9238),

Gene: Phipps_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Phipps_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: PhorbesPhlower_38 Start: 28562, Stop: 29011, Start Num: 40
Candidate Starts for PhorbesPhlower_38:
(18, 28481), (Start: 40 @28562 has 1 MA's), (71, 28730), (76, 28766), (97, 28895), (109, 29000),

Gene: PhrodoBaggins_105 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for PhrodoBaggins_105:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Phunky_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Phunky_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Pipsqueak_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Pipsqueak_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Plmatters_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Plmatters_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Plumbus_66 Start: 41519, Stop: 42001, Start Num: 27
Candidate Starts for Plumbus_66:
(Start: 27 @41519 has 10 MA's), (47, 41603), (89, 41846), (95, 41885), (101, 41927),

Gene: Podrick_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Podrick_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Pops_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Pops_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Prickles_10 Start: 8949, Stop: 9383, Start Num: 41
Candidate Starts for Prickles_10:
(Start: 41 @8949 has 157 MA's), (49, 8988), (54, 9012), (65, 9093), (79, 9183), (90, 9246),

Gene: ProfessorX_10 Start: 8941, Stop: 9375, Start Num: 41
Candidate Starts for ProfessorX_10:
(Start: 41 @8941 has 157 MA's), (49, 8980), (54, 9004), (65, 9085), (79, 9175), (90, 9238),

Gene: Puhltonio_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Puhltonio_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: QueenBeane_10 Start: 8940, Stop: 9374, Start Num: 41
Candidate Starts for QueenBeane_10:
(Start: 41 @8940 has 157 MA's), (49, 8979), (54, 9003), (65, 9084), (79, 9174), (90, 9237),

Gene: Quisquiliae_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Quisquiliae_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: RedRaider89_11 Start: 9175, Stop: 9609, Start Num: 41
Candidate Starts for RedRaider89_11:
(Start: 41 @9175 has 157 MA's), (49, 9214), (54, 9238), (65, 9319), (79, 9409), (90, 9472),

Gene: Riggan_10 Start: 8947, Stop: 9381, Start Num: 41
Candidate Starts for Riggan_10:
(Start: 41 @8947 has 157 MA's), (49, 8986), (54, 9010), (65, 9091), (79, 9181), (90, 9244),

Gene: Riverton_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Riverton_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Roliet_10 Start: 8943, Stop: 9377, Start Num: 41

Candidate Starts for Roliet_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Roscoe_11 Start: 9178, Stop: 9612, Start Num: 41
Candidate Starts for Roscoe_11:
(Start: 41 @9178 has 157 MA's), (49, 9217), (54, 9241), (65, 9322), (79, 9412), (90, 9475),

Gene: SDcharge11_10 Start: 8936, Stop: 9370, Start Num: 41
Candidate Starts for SDcharge11_10:
(Start: 41 @8936 has 157 MA's), (49, 8975), (54, 8999), (65, 9080), (79, 9170), (90, 9233),

Gene: Samaymay_10 Start: 8940, Stop: 9374, Start Num: 41
Candidate Starts for Samaymay_10:
(Start: 41 @8940 has 157 MA's), (49, 8979), (54, 9003), (65, 9084), (79, 9174), (90, 9237),

Gene: Saronaya_49 Start: 42016, Stop: 42534, Start Num: 23
Candidate Starts for Saronaya_49:
(Start: 23 @42016 has 16 MA's), (30, 42046), (68, 42232), (82, 42322), (85, 42334), (112, 42529),

Gene: Scoot17C_10 Start: 8944, Stop: 9378, Start Num: 41
Candidate Starts for Scoot17C_10:
(Start: 41 @8944 has 157 MA's), (49, 8983), (54, 9007), (65, 9088), (79, 9178), (90, 9241),

Gene: Sedona_50 Start: 43310, Stop: 43828, Start Num: 23
Candidate Starts for Sedona_50:
(Start: 23 @43310 has 16 MA's), (30, 43340), (68, 43526), (82, 43616), (85, 43628),

Gene: Serendipity_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Serendipity_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Serpentine_0010 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Serpentine_0010:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: ShadowBud_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for ShadowBud_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Sheila_10 Start: 8941, Stop: 9375, Start Num: 41
Candidate Starts for Sheila_10:
(Start: 41 @8941 has 157 MA's), (49, 8980), (54, 9004), (65, 9085), (79, 9175), (90, 9238),

Gene: ShiVal_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for ShiVal_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Shivanishola_50 Start: 42031, Stop: 42549, Start Num: 23
Candidate Starts for Shivanishola_50:
(10, 42019), (Start: 15 @42028 has 5 MA's), (Start: 23 @42031 has 16 MA's), (68, 42247), (82, 42337), (85, 42349),

Gene: Sigman_10 Start: 8940, Stop: 9374, Start Num: 41

Candidate Starts for Sigman_10:
(Start: 41 @8940 has 157 MA's), (49, 8979), (54, 9003), (65, 9084), (79, 9174), (90, 9237),

Gene: Sitar_50 Start: 43707, Stop: 44228, Start Num: 15
Candidate Starts for Sitar_50:
(10, 43698), (Start: 15 @43707 has 5 MA's), (Start: 23 @43710 has 16 MA's), (68, 43926), (82, 44016), (85, 44028),

Gene: Skippy_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Skippy_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Slatt_10 Start: 8945, Stop: 9379, Start Num: 41
Candidate Starts for Slatt_10:
(Start: 41 @8945 has 157 MA's), (49, 8984), (54, 9008), (65, 9089), (79, 9179), (90, 9242),

Gene: Slim_65 Start: 41999, Stop: 42481, Start Num: 27
Candidate Starts for Slim_65:
(Start: 27 @41999 has 10 MA's), (47, 42083), (89, 42326), (95, 42365), (101, 42407),

Gene: Smoothie_51 Start: 31978, Stop: 32439, Start Num: 38
Candidate Starts for Smoothie_51:
(Start: 38 @31978 has 3 MA's), (59, 32086), (67, 32125), (70, 32137), (77, 32185), (79, 32197), (85, 32233), (110, 32422), (111, 32425),

Gene: SophKB_98 Start: 59438, Stop: 59899, Start Num: 37
Candidate Starts for SophKB_98:
(Start: 37 @59438 has 5 MA's), (46, 59474), (64, 59594), (73, 59651), (79, 59690), (80, 59696),

Gene: Soto_10 Start: 8940, Stop: 9374, Start Num: 41
Candidate Starts for Soto_10:
(Start: 41 @8940 has 157 MA's), (49, 8979), (54, 9003), (65, 9084), (79, 9174), (90, 9237),

Gene: Spartan300_10 Start: 8940, Stop: 9374, Start Num: 41
Candidate Starts for Spartan300_10:
(Start: 41 @8940 has 157 MA's), (49, 8979), (54, 9003), (65, 9084), (79, 9174), (90, 9237),

Gene: Suffolk_10 Start: 8942, Stop: 9376, Start Num: 41
Candidate Starts for Suffolk_10:
(Start: 41 @8942 has 157 MA's), (49, 8981), (54, 9005), (65, 9086), (79, 9176), (90, 9239),

Gene: Superphikiman_163 Start: 84350, Stop: 84877, Start Num: 31
Candidate Starts for Superphikiman_163:
(Start: 21 @84308 has 2 MA's), (Start: 31 @84350 has 1 MA's), (35, 84365), (74, 84587), (82, 84644), (87, 84665),

Gene: Surely_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Surely_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Swiphy_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Swiphy_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Swish_10 Start: 8944, Stop: 9378, Start Num: 41
Candidate Starts for Swish_10:
(Start: 41 @8944 has 157 MA's), (49, 8983), (54, 9007), (65, 9088), (79, 9178), (90, 9241),

Gene: Thing3_49 Start: 42108, Stop: 42626, Start Num: 23
Candidate Starts for Thing3_49:
(Start: 23 @42108 has 16 MA's), (68, 42324), (82, 42414), (85, 42426),

Gene: Thora_10 Start: 8940, Stop: 9374, Start Num: 41
Candidate Starts for Thora_10:
(Start: 41 @8940 has 157 MA's), (49, 8979), (54, 9003), (65, 9084), (79, 9174), (90, 9237),

Gene: ThreeOh3D2_10 Start: 8941, Stop: 9375, Start Num: 41
Candidate Starts for ThreeOh3D2_10:
(Start: 41 @8941 has 157 MA's), (49, 8980), (54, 9004), (65, 9085), (79, 9175), (90, 9238),

Gene: ThulaThula_69 Start: 44706, Stop: 45302, Start Num: 8
Candidate Starts for ThulaThula_69:
(2, 44622), (3, 44679), (Start: 8 @44706 has 2 MA's), (13, 44727), (24, 44763), (28, 44778), (39, 44823), (48, 44862), (86, 45102), (92, 45141), (98, 45177), (104, 45243), (107, 45270),

Gene: TomBombadil_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for TomBombadil_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Tomlarah_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Tomlarah_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: TooFast2Furius_11 Start: 9178, Stop: 9612, Start Num: 41
Candidate Starts for TooFast2Furius_11:
(Start: 41 @9178 has 157 MA's), (49, 9217), (54, 9241), (65, 9322), (79, 9412), (90, 9475),

Gene: Tooj_10 Start: 8941, Stop: 9375, Start Num: 41
Candidate Starts for Tooj_10:
(Start: 41 @8941 has 157 MA's), (49, 8980), (54, 9004), (65, 9085), (79, 9175), (90, 9238),

Gene: Totinger_63 Start: 40465, Stop: 40947, Start Num: 27
Candidate Starts for Totinger_63:
(Start: 27 @40465 has 10 MA's), (47, 40549), (89, 40792), (95, 40831), (101, 40873),

Gene: Trypo_10 Start: 8940, Stop: 9374, Start Num: 41
Candidate Starts for Trypo_10:
(Start: 41 @8940 has 157 MA's), (49, 8979), (54, 9003), (65, 9084), (79, 9174), (90, 9237),

Gene: UAch1_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for UAch1_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Usavi_10 Start: 8940, Stop: 9374, Start Num: 41
Candidate Starts for Usavi_10:
(Start: 41 @8940 has 157 MA's), (49, 8979), (54, 9003), (65, 9084), (79, 9174), (90, 9237),

Gene: Valjean_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Valjean_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Virapocalypse_10 Start: 8941, Stop: 9375, Start Num: 41
Candidate Starts for Virapocalypse_10:
(Start: 41 @8941 has 157 MA's), (49, 8980), (54, 9004), (65, 9085), (79, 9175), (90, 9238),

Gene: Vista_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Vista_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Vivaldi_10 Start: 8941, Stop: 9375, Start Num: 41
Candidate Starts for Vivaldi_10:
(Start: 41 @8941 has 157 MA's), (49, 8980), (54, 9004), (65, 9085), (79, 9175), (90, 9238),

Gene: Vivi2_54 Start: 43935, Stop: 44456, Start Num: 15
Candidate Starts for Vivi2_54:
(10, 43926), (Start: 15 @43935 has 5 MA's), (Start: 23 @43938 has 16 MA's), (68, 44154), (82, 44244), (85, 44256),

Gene: Walrus_68 Start: 43422, Stop: 44057, Start Num: 4
Candidate Starts for Walrus_68:
(Start: 4 @43422 has 2 MA's), (16, 43458), (24, 43485), (39, 43545), (60, 43662), (61, 43668), (98, 43899), (115, 44043),

Gene: Waterdiva_10 Start: 8944, Stop: 9378, Start Num: 41
Candidate Starts for Waterdiva_10:
(Start: 41 @8944 has 157 MA's), (49, 8983), (54, 9007), (65, 9088), (79, 9178), (90, 9241),

Gene: Weher20_10 Start: 8940, Stop: 9374, Start Num: 41
Candidate Starts for Weher20_10:
(Start: 41 @8940 has 157 MA's), (49, 8979), (54, 9003), (65, 9084), (79, 9174), (90, 9237),

Gene: WhereRU_161 Start: 91595, Stop: 92011, Start Num: 44
Candidate Starts for WhereRU_161:
(Start: 42 @91589 has 1 MA's), (Start: 44 @91595 has 1 MA's), (51, 91625), (62, 91694), (76, 91781), (87, 91847),

Gene: YorkOnyx_50 Start: 42214, Stop: 42732, Start Num: 23
Candidate Starts for YorkOnyx_50:
(Start: 23 @42214 has 16 MA's), (30, 42244), (68, 42430), (82, 42520), (85, 42532),

Gene: Yoshand_10 Start: 8941, Stop: 9375, Start Num: 41
Candidate Starts for Yoshand_10:
(Start: 41 @8941 has 157 MA's), (49, 8980), (54, 9004), (65, 9085), (79, 9175), (90, 9238),

Gene: YouGoGlencoco_10 Start: 8940, Stop: 9374, Start Num: 41
Candidate Starts for YouGoGlencoco_10:
(Start: 41 @8940 has 157 MA's), (49, 8979), (54, 9003), (65, 9084), (79, 9174), (90, 9237),

Gene: Zaider_11 Start: 9173, Stop: 9607, Start Num: 41

Candidate Starts for Zaider_11:
(Start: 41 @9173 has 157 MA's), (49, 9212), (54, 9236), (65, 9317), (79, 9407), (90, 9470),

Gene: Zelda_10 Start: 8943, Stop: 9377, Start Num: 41
Candidate Starts for Zelda_10:
(Start: 41 @8943 has 157 MA's), (49, 8982), (54, 9006), (65, 9087), (79, 9177), (90, 9240),

Gene: Zonia_10 Start: 8957, Stop: 9391, Start Num: 41
Candidate Starts for Zonia_10:
(Start: 41 @8957 has 157 MA's), (49, 8996), (54, 9020), (65, 9101), (79, 9191), (90, 9254),