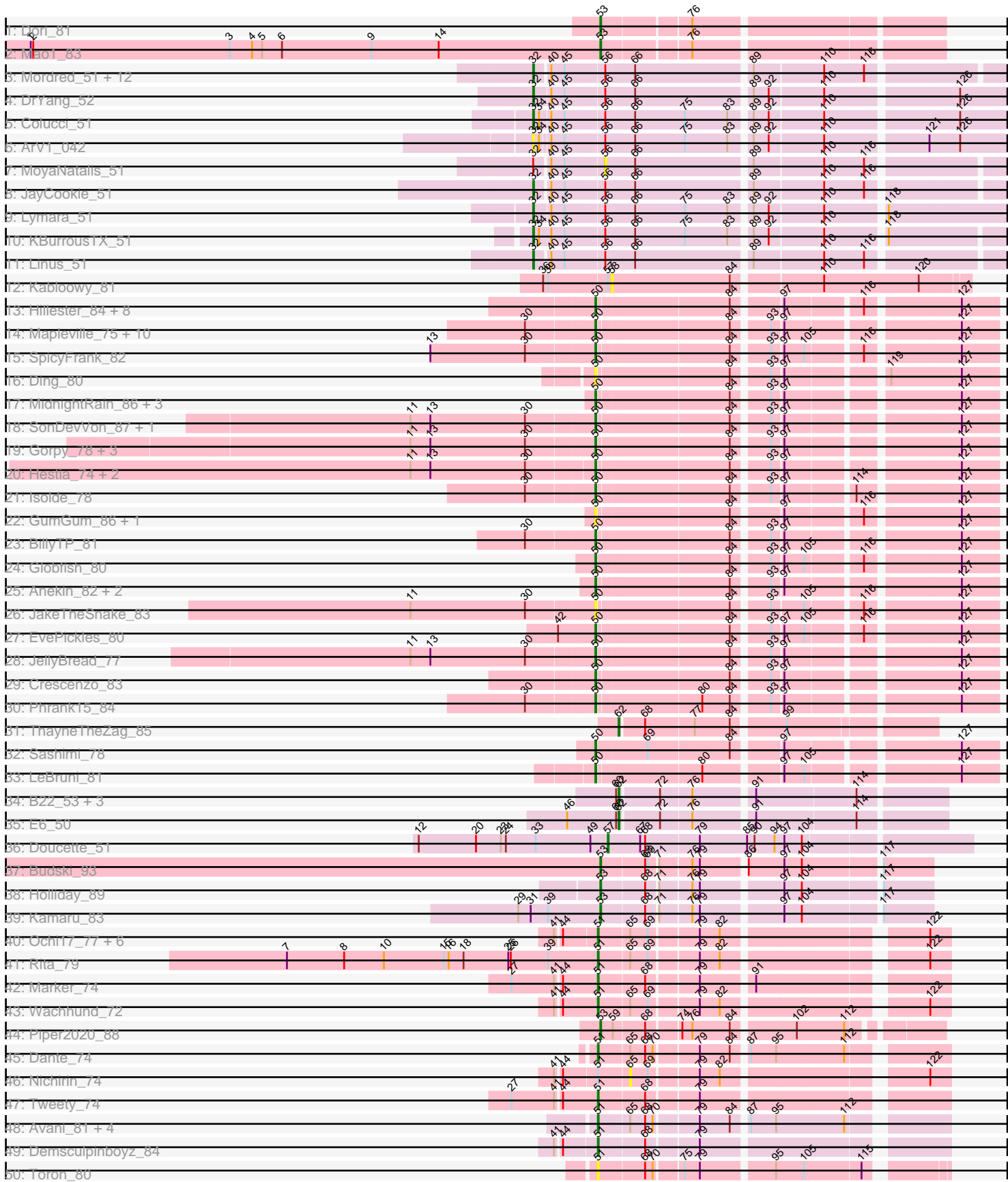
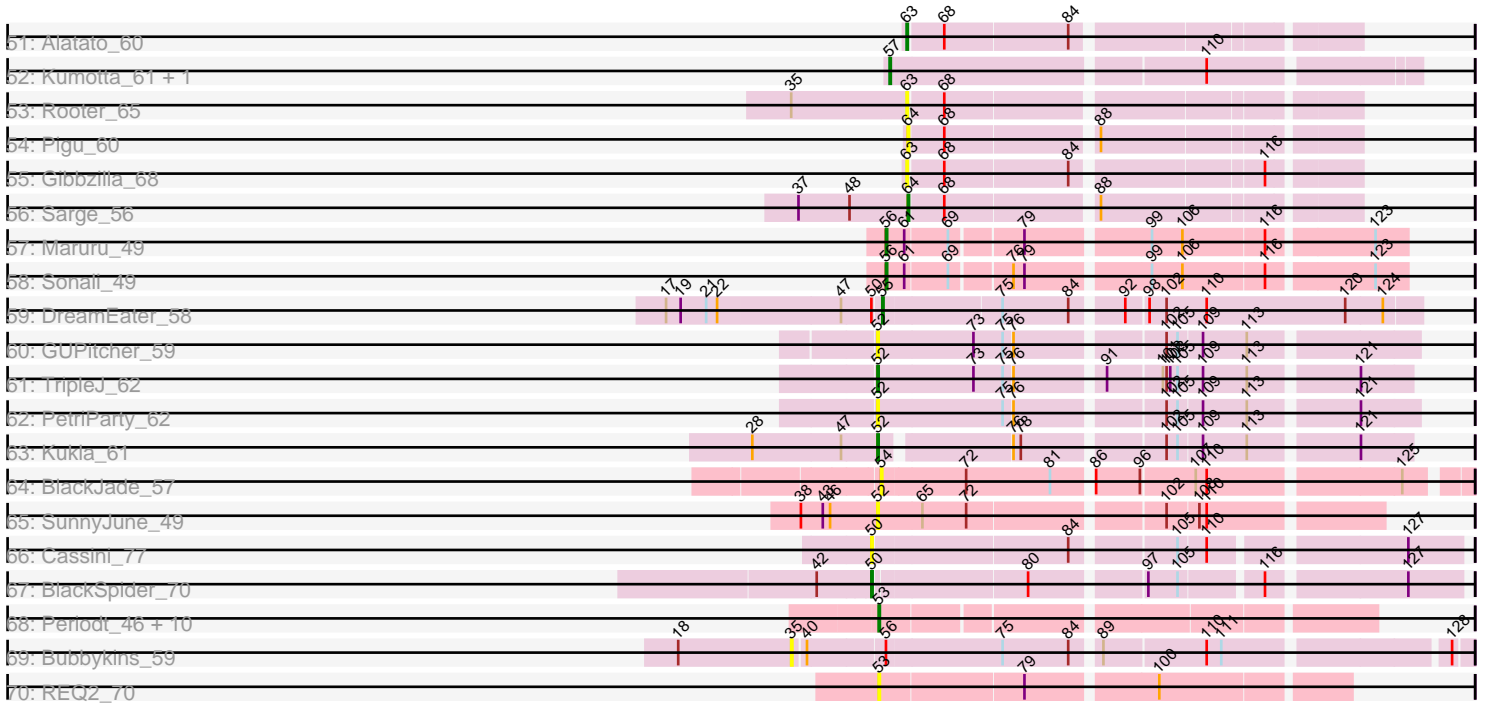


Pham 304797



Pham 304797



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 304797 Report

This analysis was run 06/08/26 on database version 649.

Pham number 304797 has 136 members, 33 are drafts.

Phages represented in each track:

- Track 1 : Dori_81
- Track 2 : Mao1_83
- Track 3 : Mordred_51, RosiePosie_51, Conboy_51, Chipper1996_510, JaNo_51, PrincessTrina_51, Tophat_51, EdgarPoe_51, Kabreeze_51, Scavito_51, Chubster_51, Chocolat_51, HumptyDumpty_51
- Track 4 : DrYang_52
- Track 5 : Colucci_51
- Track 6 : ArV1_042
- Track 7 : MoyaNatalis_51
- Track 8 : JayCookie_51
- Track 9 : Lymara_51
- Track 10 : KBurrousTX_51
- Track 11 : Linus_51
- Track 12 : Kabloowy_81
- Track 13 : Hillester_84, DarwinJr_84, Satrap_80, BenchScraper_80, RadFad_85, BasketStar_80, Seahorse_88, Bhageatrice_84, Auxilium_78
- Track 14 : Mapleville_75, YoungHarleezy_80, MaterMagnus_80, BlueShadow_78, MUWow_83, Raqqa_78, Raphaella_81, CookieBear_79, Lawnathon_82, Aikyam_79, Windest_84
- Track 15 : SpicyFrank_82
- Track 16 : Ding_80
- Track 17 : MidnightRain_86, CosmicBrownie_78, AdaS_76, Lasker_83
- Track 18 : SonDevVon_87, Richie_83
- Track 19 : Gorpy_78, Sakai_77, NewKitty_82, Sporco_82
- Track 20 : Hestia_74, Faja_83, Vopal_82
- Track 21 : Isolde_78
- Track 22 : GumGum_86, MurphyJoseph_77
- Track 23 : BillyTP_81
- Track 24 : Globfish_80
- Track 25 : Anekin_82, Tiff81_76, Nyilah_84
- Track 26 : JakeTheSnake_83
- Track 27 : EvePickles_80
- Track 28 : JellyBread_77
- Track 29 : Crescenzo_83
- Track 30 : Phrank15_84
- Track 31 : ThayneTheZag_85
- Track 32 : Sashimi_78

- Track 33 : LeBruni_81
- Track 34 : B22_53, Anatole_45, E1_45, B3_47
- Track 35 : E6_50
- Track 36 : Doucette_51
- Track 37 : Budski_93
- Track 38 : Holliday_89
- Track 39 : Kamaru_83
- Track 40 : Ochi17_77, Llama_78, AlpineSix_78, Jinglebell_78, OfUltron_79, Sebastian_79, Modragons_76
- Track 41 : Rita_79
- Track 42 : Marker_74
- Track 43 : Wachhund_72
- Track 44 : Piper2020_88
- Track 45 : Dante_74
- Track 46 : Nichirin_74
- Track 47 : Tweety_74
- Track 48 : Avani_81, Ardmore_60, Chuckly_71, Jant_75, ThetaBob_78
- Track 49 : Demsculpinboyz_84
- Track 50 : Toron_80
- Track 51 : Alatato_60
- Track 52 : Kumotta_61, MargaretKali_57
- Track 53 : Rooter_65
- Track 54 : Pigu_60
- Track 55 : Gibbzilla_68
- Track 56 : Sarge_56
- Track 57 : Maruru_49
- Track 58 : Sonali_49
- Track 59 : DreamEater_58
- Track 60 : GUPitcher_59
- Track 61 : TripleJ_62
- Track 62 : PetriParty_62
- Track 63 : Kukla_61
- Track 64 : BlackJade_57
- Track 65 : SunnyJune_49
- Track 66 : Cassini_77
- Track 67 : BlackSpider_70
- Track 68 : Periodt_46, Barkley26_46, Terror_45, Sneeze_47, Liefie_45, Rattrick_46, Grizzly_46, DNAIII_0044, Jolene_46, Taheera_45, Rabbs_48
- Track 69 : Bubbykins_59
- Track 70 : REQ2_70

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

The start number called the most often in the published annotations is 50, it was called in 36 of the 103 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AdaS_76, Aikyam_79, Anekin_82, Auxilium_78, BasketStar_80, BenchScraper_80, Bhageatrice_84, BillyTP_81, BlackSpider_70, BlueShadow_78, Cassini_77, CookieBear_79, CosmicBrownie_78, Crescenzo_83, DarwinJr_84, Ding_80,

EvePickles_80, Faja_83, Globfish_80, Gorpy_78, GumGum_86, Hestia_74, Hillester_84, Isolde_78, JakeTheSnake_83, JellyBread_77, Lasker_83, Lawnathon_82, LeBruni_81, MUWow_83, Mapleville_75, MaterMagnus_80, MidnightRain_86, MurphyJoseph_77, NewKitty_82, Nyilah_84, Phrank15_84, RadFad_85, Raphaella_81, Raqqa_78, Richie_83, Sakai_77, Sashimi_78, Satrap_80, Seahorse_88, SonDevVon_87, SpicyFrank_82, Sporco_82, Tiff81_76, Vopal_82, Windest_84, YoungHarleezy_80,

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

- DreamEater_58,

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

- Alatato_60, AlpineSix_78, Anatole_45, ArV1_042, Ardmore_60, Avani_81, B22_53, B3_47, Barkley26_46, BlackJade_57, Bubbykins_59, Budski_93, Chipper1996_510, Chocolat_51, Chubster_51, Chuckly_71, Colucci_51, Conboy_51, DNAIII_0044, Dante_74, Demsculpinboyz_84, Dori_81, Doucette_51, DrYang_52, E1_45, E6_50, EdgarPoe_51, GUPitcher_59, Gibbzilla_68, Grizzly_46, Holliday_89, HumptyDumpty_51, JaNo_51, Jant_75, JayCookie_51, Jinglebell_78, Jolene_46, KBurrousTX_51, Kabloowy_81, Kabreeze_51, Kamaru_83, Kukla_61, Kumotta_61, Liefie_45, Linus_51, Llama_78, Lymara_51, Mao1_83, MargaretKali_57, Marker_74, Maruru_49, Modragons_76, Mordred_51, MoyaNatalis_51, Nichirin_74, Ochi17_77, OfUltron_79, Periodt_46, PetriParty_62, Pigu_60, Piper2020_88, PrincessTrina_51, REQ2_70, Rabbs_48, Rattrick_46, Rita_79, Rooter_65, RosiePosie_51, Sarge_56, Scavito_51, Seabastian_79, Sneeze_47, Sonali_49, SunnyJune_49, Taheera_45, Terror_45, ThayneTheZag_85, ThetaBob_78, Tophat_51, Toron_80, TripleJ_62, Tweety_74, Wachhund_72,

Summary by start number:

Start 32:

- Found in 21 of 136 (15.4%) of genes in pham
- Manual Annotations of this start: 19 of 103
- Called 95.2% of time when present
- Phage (with cluster) where this start called: ArV1_042 (AR), Chipper1996_510 (AR), Chocolat_51 (AR), Chubster_51 (AR), Colucci_51 (AR), Conboy_51 (AR), DrYang_52 (AR), EdgarPoe_51 (AR), HumptyDumpty_51 (AR), JaNo_51 (AR), JayCookie_51 (AR), KBurrousTX_51 (AR), Kabreeze_51 (AR), Linus_51 (AR), Lymara_51 (AR), Mordred_51 (AR), PrincessTrina_51 (AR), RosiePosie_51 (AR), Scavito_51 (AR), Tophat_51 (AR),

Start 35:

- Found in 2 of 136 (1.5%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Bubbykins_59 (UNK),

Start 50:

- Found in 53 of 136 (39.0%) of genes in pham
- Manual Annotations of this start: 36 of 103
- Called 98.1% of time when present
- Phage (with cluster) where this start called: AdaS_76 (AY), Aikyam_79 (AY), Anekin_82 (AY), Auxilium_78 (AY), BasketStar_80 (AY), BenchScraper_80 (AY), Bhageatrice_84 (AY), BillyTP_81 (AY), BlackSpider_70 (FN), BlueShadow_78 (AY),

Cassini_77 (FN), CookieBear_79 (AY), CosmicBrownie_78 (AY), Crescenzo_83 (AY), DarwinJr_84 (AY), Ding_80 (AY), EvePickles_80 (AY), Faja_83 (AY), Globfish_80 (AY), Gorpy_78 (AY), GumGum_86 (AY), Hestia_74 (AY), Hillester_84 (AY), Isolde_78 (AY), JakeTheSnake_83 (AY), JellyBread_77 (AY), Lasker_83 (AY), Lawnathon_82 (AY), LeBruni_81 (AY), MUWow_83 (AY), Mapleville_75 (AY), MaterMagnus_80 (AY), MidnightRain_86 (AY), MurphyJoseph_77 (AY), NewKitty_82 (AY), Nyilah_84 (AY), Phrank15_84 (AY), RadFad_85 (AY), Raphaella_81 (AY), Raqqa_78 (AY), Richie_83 (AY), Sakai_77 (AY), Sashimi_78 (AY), Satrap_80 (AY), Seahorse_88 (AY), SonDevVon_87 (AY), SpicyFrank_82 (AY), Sporco_82 (AY), Tiff81_76 (AY), Vopal_82 (AY), Windest_84 (AY), YoungHarleezy_80 (AY),

Start 51:

- Found in 20 of 136 (14.7%) of genes in pham
- Manual Annotations of this start: 16 of 103
- Called 95.0% of time when present
- Phage (with cluster) where this start called: AlpineSix_78 (F1), Ardmore_60 (F1), Avani_81 (F2), Chuckly_71 (F1), Dante_74 (F1), Demsculpinboyz_84 (F2), Jant_75 (F1), Jinglebell_78 (F1), Llama_78 (F1), Marker_74 (F1), Modragons_76 (F1), Ochi17_77 (F1), OfUltron_79 (F1), Rita_79 (F1), Seabastian_79 (F1), ThetaBob_78 (F4), Toron_80 (F6), Tweety_74 (F1), Wachhund_72 (F1),

Start 52:

- Found in 5 of 136 (3.7%) of genes in pham
- Manual Annotations of this start: 2 of 103
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GUPitcher_59 (FJ), Kukla_61 (FJ), PetriParty_62 (FJ), SunnyJune_49 (FL), TripleJ_62 (FJ),

Start 53:

- Found in 18 of 136 (13.2%) of genes in pham
- Manual Annotations of this start: 16 of 103
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Barkley26_46 (G1), Budski_93 (DN), DNAll_0044 (G1), Dori_81 (AD), Grizzly_46 (G1), Holliday_89 (DN1), Jolene_46 (G1), Kamaru_83 (DN1), Liefie_45 (G1), Mao1_83 (AD), Periodt_46 (G1), Piper2020_88 (F1), REQ2_70 (singleton), Rabbs_48 (G1), Rattrick_46 (G1), Sneeze_47 (G1), Taheera_45 (G1), Terror_45 (G1),

Start 54:

- Found in 1 of 136 (0.7%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BlackJade_57 (FL),

Start 55:

- Found in 1 of 136 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 103
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DreamEater_58 (FJ),

Start 56:

- Found in 24 of 136 (17.6%) of genes in pham
- Manual Annotations of this start: 2 of 103

- Called 12.5% of time when present
- Phage (with cluster) where this start called: Maruru_49 (FG), MoyaNatalis_51 (AR), Sonali_49 (FG),

Start 57:

- Found in 4 of 136 (2.9%) of genes in pham
- Manual Annotations of this start: 3 of 103
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Doucette_51 (BW), Kumotta_61 (FB), MargaretKali_57 (FB),

Start 58:

- Found in 1 of 136 (0.7%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kabloowy_81 (AY),

Start 62:

- Found in 6 of 136 (4.4%) of genes in pham
- Manual Annotations of this start: 6 of 103
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anatole_45 (BV), B22_53 (BW), B3_47 (BV), E1_45 (BV), E6_50 (BW), ThayneTheZag_85 (AY),

Start 63:

- Found in 3 of 136 (2.2%) of genes in pham
- Manual Annotations of this start: 1 of 103
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alatato_60 (FB), Gibbzilla_68 (FB), Rooter_65 (FB),

Start 64:

- Found in 2 of 136 (1.5%) of genes in pham
- Manual Annotations of this start: 1 of 103
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pigu_60 (FB), Sarge_56 (FB),

Start 65:

- Found in 17 of 136 (12.5%) of genes in pham
- No Manual Annotations of this start.
- Called 5.9% of time when present
- Phage (with cluster) where this start called: Nichirin_74 (F1),

Summary by clusters:

There are 19 clusters represented in this pham: DN, F1, F2, F4, AD, G1, F6, BV, singleton, BW, FB, AR, DN1, FG, AY, FJ, UNK, FL, FN,

Info for manual annotations of cluster AD:

- Start number 53 was manually annotated 2 times for cluster AD.

Info for manual annotations of cluster AR:

- Start number 32 was manually annotated 19 times for cluster AR.

Info for manual annotations of cluster AY:

- Start number 50 was manually annotated 35 times for cluster AY.
- Start number 62 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster BV:

- Start number 62 was manually annotated 3 times for cluster BV.

Info for manual annotations of cluster BW:

- Start number 57 was manually annotated 1 time for cluster BW.
- Start number 62 was manually annotated 2 times for cluster BW.

Info for manual annotations of cluster DN:

- Start number 53 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 53 was manually annotated 2 times for cluster DN1.

Info for manual annotations of cluster F1:

- Start number 51 was manually annotated 13 times for cluster F1.
- Start number 53 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster F2:

- Start number 51 was manually annotated 2 times for cluster F2.

Info for manual annotations of cluster F4:

- Start number 51 was manually annotated 1 time for cluster F4.

Info for manual annotations of cluster FB:

- Start number 57 was manually annotated 2 times for cluster FB.
- Start number 63 was manually annotated 1 time for cluster FB.
- Start number 64 was manually annotated 1 time for cluster FB.

Info for manual annotations of cluster FG:

- Start number 56 was manually annotated 2 times for cluster FG.

Info for manual annotations of cluster FJ:

- Start number 52 was manually annotated 2 times for cluster FJ.
- Start number 55 was manually annotated 1 time for cluster FJ.

Info for manual annotations of cluster FN:

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

Info for manual annotations of cluster G1:

- Start number 53 was manually annotated 10 times for cluster G1.

Gene Information:

Gene: AdaS_76 Start: 43281, Stop: 43715, Start Num: 50
Candidate Starts for AdaS_76:
(Start: 50 @43281 has 36 MA's), (84, 43431), (93, 43470), (97, 43482), (127, 43671),

Gene: Aikyam_79 Start: 43854, Stop: 44288, Start Num: 50
Candidate Starts for Aikyam_79:
(30, 43776), (Start: 50 @43854 has 36 MA's), (84, 44004), (93, 44043), (97, 44055), (127, 44244),

Gene: Alatato_60 Start: 34727, Stop: 35062, Start Num: 63
Candidate Starts for Alatato_60:
(Start: 63 @34727 has 1 MA's), (68, 34754), (84, 34853),

Gene: AlpineSix_78 Start: 47298, Stop: 47669, Start Num: 51
Candidate Starts for AlpineSix_78:
(41, 47253), (44, 47259), (Start: 51 @47298 has 16 MA's), (65, 47334), (69, 47355), (79, 47409), (82, 47433), (122, 47646),

Gene: Anatole_45 Start: 30233, Stop: 30598, Start Num: 62
Candidate Starts for Anatole_45:
(60, 30230), (Start: 62 @30233 has 6 MA's), (72, 30278), (76, 30314), (91, 30380), (114, 30497),

Gene: Anekin_82 Start: 46598, Stop: 47032, Start Num: 50
Candidate Starts for Anekin_82:
(Start: 50 @46598 has 36 MA's), (84, 46748), (93, 46787), (97, 46799), (127, 46988),

Gene: ArV1_042 Start: 37634, Stop: 38161, Start Num: 32
Candidate Starts for ArV1_042:
(Start: 32 @37634 has 19 MA's), (34, 37640), (40, 37649), (45, 37664), (Start: 56 @37709 has 2 MA's), (66, 37742), (75, 37802), (83, 37853), (89, 37874), (92, 37892), (110, 37955), (121, 38069), (126, 38105),

Gene: Ardmore_60 Start: 41615, Stop: 41989, Start Num: 51
Candidate Starts for Ardmore_60:
(Start: 51 @41615 has 16 MA's), (65, 41651), (68, 41669), (70, 41678), (79, 41726), (84, 41762), (87, 41777), (95, 41807), (112, 41885),

Gene: Auxilium_78 Start: 43540, Stop: 43974, Start Num: 50
Candidate Starts for Auxilium_78:
(Start: 50 @43540 has 36 MA's), (84, 43690), (97, 43741), (116, 43825), (127, 43930),

Gene: Avani_81 Start: 44848, Stop: 45222, Start Num: 51
Candidate Starts for Avani_81:
(Start: 51 @44848 has 16 MA's), (65, 44884), (68, 44902), (70, 44911), (79, 44959), (84, 44995), (87, 45010), (95, 45040), (112, 45118),

Gene: B22_53 Start: 33661, Stop: 34026, Start Num: 62
Candidate Starts for B22_53:
(60, 33658), (Start: 62 @33661 has 6 MA's), (72, 33706), (76, 33742), (91, 33808), (114, 33925),

Gene: B3_47 Start: 30896, Stop: 31261, Start Num: 62
Candidate Starts for B3_47:
(60, 30893), (Start: 62 @30896 has 6 MA's), (72, 30941), (76, 30977), (91, 31043), (114, 31160),

Gene: Barkley26_46 Start: 35142, Stop: 35513, Start Num: 53

Candidate Starts for Barkley26_46:

(Start: 53 @35142 has 16 MA's),

Gene: BasketStar_80 Start: 46212, Stop: 46646, Start Num: 50

Candidate Starts for BasketStar_80:

(Start: 50 @46212 has 36 MA's), (84, 46362), (97, 46413), (116, 46497), (127, 46602),

Gene: BenchScraper_80 Start: 44453, Stop: 44887, Start Num: 50

Candidate Starts for BenchScraper_80:

(Start: 50 @44453 has 36 MA's), (84, 44603), (97, 44654), (116, 44738), (127, 44843),

Gene: Bhageatrice_84 Start: 48381, Stop: 48815, Start Num: 50

Candidate Starts for Bhageatrice_84:

(Start: 50 @48381 has 36 MA's), (84, 48531), (97, 48582), (116, 48666), (127, 48771),

Gene: BillyTP_81 Start: 46444, Stop: 46878, Start Num: 50

Candidate Starts for BillyTP_81:

(30, 46366), (Start: 50 @46444 has 36 MA's), (84, 46594), (93, 46633), (97, 46645), (127, 46834),

Gene: BlackJade_57 Start: 36087, Stop: 36527, Start Num: 54

Candidate Starts for BlackJade_57:

(54, 36087), (72, 36153), (81, 36222), (86, 36249), (96, 36285), (107, 36327), (110, 36336), (125, 36483),

Gene: BlackSpider_70 Start: 43372, Stop: 43806, Start Num: 50

Candidate Starts for BlackSpider_70:

(42, 43330), (Start: 50 @43372 has 36 MA's), (80, 43489), (97, 43573), (105, 43597), (116, 43657), (127, 43762),

Gene: BlueShadow_78 Start: 45699, Stop: 46133, Start Num: 50

Candidate Starts for BlueShadow_78:

(30, 45621), (Start: 50 @45699 has 36 MA's), (84, 45849), (93, 45888), (97, 45900), (127, 46089),

Gene: Bubbykins_59 Start: 44007, Stop: 44516, Start Num: 35

Candidate Starts for Bubbykins_59:

(18, 43914), (35, 44007), (40, 44016), (Start: 56 @44076 has 2 MA's), (75, 44169), (84, 44223), (89, 44241), (110, 44322), (111, 44334), (128, 44502),

Gene: Budski_93 Start: 50931, Stop: 51293, Start Num: 53

Candidate Starts for Budski_93:

(Start: 53 @50931 has 16 MA's), (68, 50982), (69, 50985), (71, 50994), (76, 51030), (79, 51039), (86, 51087), (97, 51129), (104, 51150), (117, 51234),

Gene: Cassini_77 Start: 45232, Stop: 45669, Start Num: 50

Candidate Starts for Cassini_77:

(Start: 50 @45232 has 36 MA's), (84, 45385), (105, 45460), (110, 45481), (127, 45625),

Gene: Chipper1996_510 Start: 39219, Stop: 39737, Start Num: 32

Candidate Starts for Chipper1996_510:

(Start: 32 @39219 has 19 MA's), (40, 39234), (45, 39249), (Start: 56 @39294 has 2 MA's), (66, 39327), (89, 39459), (110, 39540), (116, 39588),

Gene: Chocolat_51 Start: 39199, Stop: 39717, Start Num: 32

Candidate Starts for Chocolat_51:

(Start: 32 @39199 has 19 MA's), (40, 39214), (45, 39229), (Start: 56 @39274 has 2 MA's), (66, 39307), (89, 39439), (110, 39520), (116, 39568),

Gene: Chubster_51 Start: 39119, Stop: 39637, Start Num: 32

Candidate Starts for Chubster_51:

(Start: 32 @39119 has 19 MA's), (40, 39134), (45, 39149), (Start: 56 @39194 has 2 MA's), (66, 39227), (89, 39359), (110, 39440), (116, 39488),

Gene: Chuckly_71 Start: 44186, Stop: 44560, Start Num: 51

Candidate Starts for Chuckly_71:

(Start: 51 @44186 has 16 MA's), (65, 44222), (68, 44240), (70, 44249), (79, 44297), (84, 44333), (87, 44348), (95, 44378), (112, 44456),

Gene: Colucci_51 Start: 38917, Stop: 39447, Start Num: 32

Candidate Starts for Colucci_51:

(Start: 32 @38917 has 19 MA's), (34, 38923), (40, 38935), (45, 38950), (Start: 56 @38995 has 2 MA's), (66, 39028), (75, 39088), (83, 39139), (89, 39160), (92, 39178), (110, 39241), (126, 39391),

Gene: Conboy_51 Start: 39347, Stop: 39865, Start Num: 32

Candidate Starts for Conboy_51:

(Start: 32 @39347 has 19 MA's), (40, 39362), (45, 39377), (Start: 56 @39422 has 2 MA's), (66, 39455), (89, 39587), (110, 39668), (116, 39716),

Gene: CookieBear_79 Start: 44928, Stop: 45362, Start Num: 50

Candidate Starts for CookieBear_79:

(30, 44850), (Start: 50 @44928 has 36 MA's), (84, 45078), (93, 45117), (97, 45129), (127, 45318),

Gene: CosmicBrownie_78 Start: 44683, Stop: 45117, Start Num: 50

Candidate Starts for CosmicBrownie_78:

(Start: 50 @44683 has 36 MA's), (84, 44833), (93, 44872), (97, 44884), (127, 45073),

Gene: Crescenzo_83 Start: 47866, Stop: 48300, Start Num: 50

Candidate Starts for Crescenzo_83:

(Start: 50 @47866 has 36 MA's), (84, 48016), (93, 48055), (97, 48067), (127, 48256),

Gene: DNAIII_0044 Start: 33784, Stop: 34155, Start Num: 53

Candidate Starts for DNAIII_0044:

(Start: 53 @33784 has 16 MA's),

Gene: Dante_74 Start: 48875, Stop: 49249, Start Num: 51

Candidate Starts for Dante_74:

(Start: 51 @48875 has 16 MA's), (65, 48911), (68, 48929), (70, 48938), (79, 48986), (84, 49022), (87, 49037), (95, 49067), (112, 49145),

Gene: DarwinJr_84 Start: 47821, Stop: 48255, Start Num: 50

Candidate Starts for DarwinJr_84:

(Start: 50 @47821 has 36 MA's), (84, 47971), (97, 48022), (116, 48106), (127, 48211),

Gene: Demsculpinboyz_84 Start: 44357, Stop: 44731, Start Num: 51

Candidate Starts for Demsculpinboyz_84:

(41, 44312), (44, 44318), (Start: 51 @44357 has 16 MA's), (68, 44411), (79, 44468),

Gene: Ding_80 Start: 45228, Stop: 45662, Start Num: 50

Candidate Starts for Ding_80:

(Start: 50 @45228 has 36 MA's), (84, 45378), (93, 45417), (97, 45429), (119, 45534), (127, 45618),

Gene: Dori_81 Start: 57732, Stop: 58109, Start Num: 53

Candidate Starts for Dori_81:

(Start: 53 @57732 has 16 MA's), (76, 57831),

Gene: Doucette_51 Start: 33311, Stop: 33733, Start Num: 57

Candidate Starts for Doucette_51:

(12, 33083), (20, 33152), (23, 33182), (24, 33188), (33, 33224), (49, 33290), (Start: 57 @33311 has 3 MA's), (67, 33350), (68, 33356), (79, 33419), (85, 33476), (90, 33485), (94, 33509), (97, 33521), (104, 33542),

Gene: DrYang_52 Start: 41254, Stop: 41784, Start Num: 32

Candidate Starts for DrYang_52:

(Start: 32 @41254 has 19 MA's), (40, 41272), (45, 41287), (Start: 56 @41332 has 2 MA's), (66, 41365), (89, 41497), (92, 41515), (110, 41578), (126, 41728),

Gene: DreamEater_58 Start: 37911, Stop: 38327, Start Num: 55

Candidate Starts for DreamEater_58:

(17, 37740), (19, 37752), (21, 37773), (22, 37782), (47, 37881), (Start: 50 @37905 has 36 MA's), (Start: 55 @37911 has 1 MA's), (75, 38004), (84, 38058), (92, 38094), (98, 38109), (102, 38121), (110, 38154), (120, 38268), (124, 38298),

Gene: E1_45 Start: 30233, Stop: 30598, Start Num: 62

Candidate Starts for E1_45:

(60, 30230), (Start: 62 @30233 has 6 MA's), (72, 30278), (76, 30314), (91, 30380), (114, 30497),

Gene: E6_50 Start: 33161, Stop: 33526, Start Num: 62

Candidate Starts for E6_50:

(46, 33101), (60, 33158), (Start: 62 @33161 has 6 MA's), (72, 33206), (76, 33242), (91, 33308), (114, 33425),

Gene: EdgarPoe_51 Start: 39347, Stop: 39865, Start Num: 32

Candidate Starts for EdgarPoe_51:

(Start: 32 @39347 has 19 MA's), (40, 39362), (45, 39377), (Start: 56 @39422 has 2 MA's), (66, 39455), (89, 39587), (110, 39668), (116, 39716),

Gene: EvePickles_80 Start: 46710, Stop: 47144, Start Num: 50

Candidate Starts for EvePickles_80:

(42, 46668), (Start: 50 @46710 has 36 MA's), (84, 46860), (93, 46899), (97, 46911), (105, 46935), (116, 46995), (127, 47100),

Gene: Faja_83 Start: 46967, Stop: 47401, Start Num: 50

Candidate Starts for Faja_83:

(11, 46754), (13, 46778), (30, 46892), (Start: 50 @46967 has 36 MA's), (84, 47117), (93, 47156), (97, 47168), (127, 47357),

Gene: GUPitcher_59 Start: 38018, Stop: 38428, Start Num: 52

Candidate Starts for GUPitcher_59:

(Start: 52 @38018 has 2 MA's), (73, 38096), (75, 38120), (76, 38126), (102, 38237), (105, 38246), (109, 38264), (113, 38300),

Gene: Gibbzilla_68 Start: 35366, Stop: 35701, Start Num: 63

Candidate Starts for Gibbzilla_68:

(Start: 63 @35366 has 1 MA's), (68, 35393), (84, 35492), (116, 35633),

Gene: Globfish_80 Start: 44618, Stop: 45055, Start Num: 50

Candidate Starts for Globfish_80:

(Start: 50 @44618 has 36 MA's), (84, 44771), (93, 44810), (97, 44822), (105, 44846), (116, 44906), (127, 45011),

Gene: Gorpy_78 Start: 46271, Stop: 46705, Start Num: 50

Candidate Starts for Gorpy_78:

(11, 46055), (13, 46079), (30, 46193), (Start: 50 @46271 has 36 MA's), (84, 46421), (93, 46460), (97, 46472), (127, 46661),

Gene: Grizzly_46 Start: 35126, Stop: 35497, Start Num: 53

Candidate Starts for Grizzly_46:

(Start: 53 @35126 has 16 MA's),

Gene: GumGum_86 Start: 46484, Stop: 46918, Start Num: 50

Candidate Starts for GumGum_86:

(Start: 50 @46484 has 36 MA's), (84, 46634), (97, 46685), (116, 46769), (127, 46874),

Gene: Hestia_74 Start: 43190, Stop: 43624, Start Num: 50

Candidate Starts for Hestia_74:

(11, 42977), (13, 43001), (30, 43115), (Start: 50 @43190 has 36 MA's), (84, 43340), (93, 43379), (97, 43391), (127, 43580),

Gene: Hillester_84 Start: 46339, Stop: 46773, Start Num: 50

Candidate Starts for Hillester_84:

(Start: 50 @46339 has 36 MA's), (84, 46489), (97, 46540), (116, 46624), (127, 46729),

Gene: Holliday_89 Start: 51444, Stop: 51806, Start Num: 53

Candidate Starts for Holliday_89:

(Start: 53 @51444 has 16 MA's), (68, 51495), (71, 51507), (76, 51543), (79, 51552), (97, 51642), (104, 51663), (117, 51747),

Gene: HumptyDumpty_51 Start: 39217, Stop: 39735, Start Num: 32

Candidate Starts for HumptyDumpty_51:

(Start: 32 @39217 has 19 MA's), (40, 39232), (45, 39247), (Start: 56 @39292 has 2 MA's), (66, 39325), (89, 39457), (110, 39538), (116, 39586),

Gene: Isolde_78 Start: 45144, Stop: 45578, Start Num: 50

Candidate Starts for Isolde_78:

(30, 45066), (Start: 50 @45144 has 36 MA's), (84, 45294), (93, 45333), (97, 45345), (114, 45420), (127, 45534),

Gene: JaNo_51 Start: 39217, Stop: 39735, Start Num: 32

Candidate Starts for JaNo_51:

(Start: 32 @39217 has 19 MA's), (40, 39232), (45, 39247), (Start: 56 @39292 has 2 MA's), (66, 39325), (89, 39457), (110, 39538), (116, 39586),

Gene: JakeTheSnake_83 Start: 48002, Stop: 48436, Start Num: 50
Candidate Starts for JakeTheSnake_83:
(11, 47786), (30, 47924), (Start: 50 @48002 has 36 MA's), (84, 48152), (93, 48191), (105, 48227),
(116, 48287), (127, 48392),

Gene: Jant_75 Start: 45698, Stop: 46072, Start Num: 51
Candidate Starts for Jant_75:
(Start: 51 @45698 has 16 MA's), (65, 45734), (68, 45752), (70, 45761), (79, 45809), (84, 45845), (87,
45860), (95, 45890), (112, 45968),

Gene: JayCookie_51 Start: 39354, Stop: 39872, Start Num: 32
Candidate Starts for JayCookie_51:
(Start: 32 @39354 has 19 MA's), (40, 39369), (45, 39384), (Start: 56 @39429 has 2 MA's), (66, 39462),
(89, 39594), (110, 39675), (116, 39723),

Gene: JellyBread_77 Start: 45355, Stop: 45789, Start Num: 50
Candidate Starts for JellyBread_77:
(11, 45139), (13, 45163), (30, 45277), (Start: 50 @45355 has 36 MA's), (84, 45505), (93, 45544), (97,
45556), (127, 45745),

Gene: Jinglebell_78 Start: 47297, Stop: 47668, Start Num: 51
Candidate Starts for Jinglebell_78:
(41, 47252), (44, 47258), (Start: 51 @47297 has 16 MA's), (65, 47333), (69, 47354), (79, 47408), (82,
47432), (122, 47645),

Gene: Jolene_46 Start: 35150, Stop: 35521, Start Num: 53
Candidate Starts for Jolene_46:
(Start: 53 @35150 has 16 MA's),

Gene: KBurrousTX_51 Start: 40442, Stop: 40966, Start Num: 32
Candidate Starts for KBurrousTX_51:
(Start: 32 @40442 has 19 MA's), (34, 40448), (40, 40463), (45, 40478), (Start: 56 @40523 has 2 MA's),
(66, 40556), (75, 40616), (83, 40667), (89, 40688), (92, 40706), (110, 40769), (118, 40835),

Gene: Kabloowy_81 Start: 46747, Stop: 47157, Start Num: 58
Candidate Starts for Kabloowy_81:
(36, 46672), (39, 46678), (Start: 57 @46744 has 3 MA's), (58, 46747), (84, 46888), (110, 46987), (120,
47101),

Gene: Kabreeze_51 Start: 39217, Stop: 39735, Start Num: 32
Candidate Starts for Kabreeze_51:
(Start: 32 @39217 has 19 MA's), (40, 39232), (45, 39247), (Start: 56 @39292 has 2 MA's), (66, 39325),
(89, 39457), (110, 39538), (116, 39586),

Gene: Kamaru_83 Start: 47388, Stop: 47750, Start Num: 53
Candidate Starts for Kamaru_83:
(29, 47289), (31, 47304), (39, 47325), (Start: 53 @47388 has 16 MA's), (68, 47439), (71, 47451), (76,
47487), (79, 47496), (97, 47586), (104, 47607), (117, 47691),

Gene: Kukla_61 Start: 37872, Stop: 38264, Start Num: 52
Candidate Starts for Kukla_61:

(28, 37773), (47, 37845), (Start: 52 @37872 has 2 MA's), (76, 37968), (78, 37974), (102, 38079), (105, 38088), (109, 38106), (113, 38142), (121, 38223),

Gene: Kumotta_61 Start: 34491, Stop: 34892, Start Num: 57

Candidate Starts for Kumotta_61:

(Start: 57 @34491 has 3 MA's), (110, 34734),

Gene: Lasker_83 Start: 46923, Stop: 47357, Start Num: 50

Candidate Starts for Lasker_83:

(Start: 50 @46923 has 36 MA's), (84, 47073), (93, 47112), (97, 47124), (127, 47313),

Gene: Lawnathon_82 Start: 45556, Stop: 45990, Start Num: 50

Candidate Starts for Lawnathon_82:

(30, 45478), (Start: 50 @45556 has 36 MA's), (84, 45706), (93, 45745), (97, 45757), (127, 45946),

Gene: LeBruni_81 Start: 45351, Stop: 45785, Start Num: 50

Candidate Starts for LeBruni_81:

(Start: 50 @45351 has 36 MA's), (80, 45468), (97, 45552), (105, 45576), (127, 45741),

Gene: Liefie_45 Start: 35148, Stop: 35519, Start Num: 53

Candidate Starts for Liefie_45:

(Start: 53 @35148 has 16 MA's),

Gene: Linus_51 Start: 39340, Stop: 39858, Start Num: 32

Candidate Starts for Linus_51:

(Start: 32 @39340 has 19 MA's), (40, 39355), (45, 39370), (Start: 56 @39415 has 2 MA's), (66, 39448), (89, 39580), (110, 39661), (116, 39709),

Gene: Llama_78 Start: 47152, Stop: 47523, Start Num: 51

Candidate Starts for Llama_78:

(41, 47107), (44, 47113), (Start: 51 @47152 has 16 MA's), (65, 47188), (69, 47209), (79, 47263), (82, 47287), (122, 47500),

Gene: Lymara_51 Start: 39161, Stop: 39691, Start Num: 32

Candidate Starts for Lymara_51:

(Start: 32 @39161 has 19 MA's), (40, 39179), (45, 39194), (Start: 56 @39239 has 2 MA's), (66, 39272), (75, 39332), (83, 39383), (89, 39404), (92, 39422), (110, 39485), (118, 39551),

Gene: MUWow_83 Start: 47292, Stop: 47726, Start Num: 50

Candidate Starts for MUWow_83:

(30, 47214), (Start: 50 @47292 has 36 MA's), (84, 47442), (93, 47481), (97, 47493), (127, 47682),

Gene: Mao1_83 Start: 56621, Stop: 56998, Start Num: 53

Candidate Starts for Mao1_83:

(1, 55934), (2, 55937), (3, 56174), (4, 56201), (5, 56213), (6, 56237), (9, 56345), (14, 56426), (Start: 53 @56621 has 16 MA's), (76, 56720),

Gene: Mapleville_75 Start: 44872, Stop: 45306, Start Num: 50

Candidate Starts for Mapleville_75:

(30, 44794), (Start: 50 @44872 has 36 MA's), (84, 45022), (93, 45061), (97, 45073), (127, 45262),

Gene: MargaretKali_57 Start: 33109, Stop: 33510, Start Num: 57

Candidate Starts for MargaretKali_57:

(Start: 57 @33109 has 3 MA's), (110, 33352),

Gene: Marker_74 Start: 45543, Stop: 45917, Start Num: 51

Candidate Starts for Marker_74:

(27, 45444), (41, 45495), (44, 45501), (Start: 51 @45543 has 16 MA's), (68, 45597), (79, 45654), (91, 45711),

Gene: Maruru_49 Start: 38776, Stop: 39165, Start Num: 56

Candidate Starts for Maruru_49:

(Start: 56 @38776 has 2 MA's), (61, 38791), (69, 38824), (79, 38878), (99, 38971), (106, 38995), (116, 39058), (123, 39139),

Gene: MaterMagnus_80 Start: 46026, Stop: 46460, Start Num: 50

Candidate Starts for MaterMagnus_80:

(30, 45948), (Start: 50 @46026 has 36 MA's), (84, 46176), (93, 46215), (97, 46227), (127, 46416),

Gene: MidnightRain_86 Start: 47232, Stop: 47666, Start Num: 50

Candidate Starts for MidnightRain_86:

(Start: 50 @47232 has 36 MA's), (84, 47382), (93, 47421), (97, 47433), (127, 47622),

Gene: Modragons_76 Start: 47141, Stop: 47512, Start Num: 51

Candidate Starts for Modragons_76:

(41, 47096), (44, 47102), (Start: 51 @47141 has 16 MA's), (65, 47177), (69, 47198), (79, 47252), (82, 47276), (122, 47489),

Gene: Mordred_51 Start: 39217, Stop: 39735, Start Num: 32

Candidate Starts for Mordred_51:

(Start: 32 @39217 has 19 MA's), (40, 39232), (45, 39247), (Start: 56 @39292 has 2 MA's), (66, 39325), (89, 39457), (110, 39538), (116, 39586),

Gene: MoyaNatalis_51 Start: 39273, Stop: 39716, Start Num: 56

Candidate Starts for MoyaNatalis_51:

(Start: 32 @39198 has 19 MA's), (40, 39213), (45, 39228), (Start: 56 @39273 has 2 MA's), (66, 39306), (89, 39438), (110, 39519), (116, 39567),

Gene: MurphyJoseph_77 Start: 44408, Stop: 44842, Start Num: 50

Candidate Starts for MurphyJoseph_77:

(Start: 50 @44408 has 36 MA's), (84, 44558), (97, 44609), (116, 44693), (127, 44798),

Gene: NewKitty_82 Start: 47134, Stop: 47568, Start Num: 50

Candidate Starts for NewKitty_82:

(11, 46921), (13, 46945), (30, 47059), (Start: 50 @47134 has 36 MA's), (84, 47284), (93, 47323), (97, 47335), (127, 47524),

Gene: Nichirin_74 Start: 46551, Stop: 46886, Start Num: 65

Candidate Starts for Nichirin_74:

(41, 46470), (44, 46476), (Start: 51 @46515 has 16 MA's), (65, 46551), (69, 46572), (79, 46626), (82, 46650), (122, 46863),

Gene: Nyilah_84 Start: 45704, Stop: 46138, Start Num: 50

Candidate Starts for Nyilah_84:

(Start: 50 @45704 has 36 MA's), (84, 45854), (93, 45893), (97, 45905), (127, 46094),

Gene: Ochi17_77 Start: 46748, Stop: 47119, Start Num: 51

Candidate Starts for Ochi17_77:

(41, 46703), (44, 46709), (Start: 51 @46748 has 16 MA's), (65, 46784), (69, 46805), (79, 46859), (82, 46883), (122, 47096),

Gene: OfUltron_79 Start: 47297, Stop: 47668, Start Num: 51

Candidate Starts for OfUltron_79:

(41, 47252), (44, 47258), (Start: 51 @47297 has 16 MA's), (65, 47333), (69, 47354), (79, 47408), (82, 47432), (122, 47645),

Gene: Periodt_46 Start: 35141, Stop: 35512, Start Num: 53

Candidate Starts for Periodt_46:

(Start: 53 @35141 has 16 MA's),

Gene: PetriParty_62 Start: 37816, Stop: 38226, Start Num: 52

Candidate Starts for PetriParty_62:

(Start: 52 @37816 has 2 MA's), (75, 37918), (76, 37924), (102, 38035), (105, 38044), (109, 38062), (113, 38098), (121, 38179),

Gene: Phrank15_84 Start: 46287, Stop: 46721, Start Num: 50

Candidate Starts for Phrank15_84:

(30, 46209), (Start: 50 @46287 has 36 MA's), (80, 46404), (84, 46437), (93, 46476), (97, 46488), (127, 46677),

Gene: Pigu_60 Start: 32856, Stop: 33191, Start Num: 64

Candidate Starts for Pigu_60:

(Start: 64 @32856 has 1 MA's), (68, 32883), (88, 32997),

Gene: Piper2020_88 Start: 52279, Stop: 52644, Start Num: 53

Candidate Starts for Piper2020_88:

(Start: 53 @52279 has 16 MA's), (59, 52294), (68, 52330), (74, 52366), (76, 52378), (84, 52423), (102, 52492), (112, 52546),

Gene: PrincessTrina_51 Start: 39341, Stop: 39859, Start Num: 32

Candidate Starts for PrincessTrina_51:

(Start: 32 @39341 has 19 MA's), (40, 39356), (45, 39371), (Start: 56 @39416 has 2 MA's), (66, 39449), (89, 39581), (110, 39662), (116, 39710),

Gene: REQ2_70 Start: 43365, Stop: 43724, Start Num: 53

Candidate Starts for REQ2_70:

(Start: 53 @43365 has 16 MA's), (79, 43479), (100, 43578),

Gene: Rabbs_48 Start: 35478, Stop: 35849, Start Num: 53

Candidate Starts for Rabbs_48:

(Start: 53 @35478 has 16 MA's),

Gene: RadFad_85 Start: 46339, Stop: 46773, Start Num: 50

Candidate Starts for RadFad_85:

(Start: 50 @46339 has 36 MA's), (84, 46489), (97, 46540), (116, 46624), (127, 46729),

Gene: Raphaella_81 Start: 45261, Stop: 45695, Start Num: 50

Candidate Starts for Raphaella_81:

(30, 45183), (Start: 50 @45261 has 36 MA's), (84, 45411), (93, 45450), (97, 45462), (127, 45651),

Gene: Raqqa_78 Start: 45834, Stop: 46268, Start Num: 50
Candidate Starts for Raqqa_78:
(30, 45756), (Start: 50 @45834 has 36 MA's), (84, 45984), (93, 46023), (97, 46035), (127, 46224),

Gene: Rattrick_46 Start: 35141, Stop: 35512, Start Num: 53
Candidate Starts for Rattrick_46:
(Start: 53 @35141 has 16 MA's),

Gene: Richie_83 Start: 47024, Stop: 47458, Start Num: 50
Candidate Starts for Richie_83:
(11, 46808), (13, 46832), (30, 46946), (Start: 50 @47024 has 36 MA's), (84, 47174), (93, 47213), (97, 47225), (127, 47414),

Gene: Rita_79 Start: 48269, Stop: 48640, Start Num: 51
Candidate Starts for Rita_79:
(7, 47894), (8, 47963), (10, 48011), (15, 48083), (16, 48089), (18, 48107), (25, 48161), (26, 48164), (39, 48209), (Start: 51 @48269 has 16 MA's), (65, 48305), (69, 48326), (79, 48380), (82, 48404), (122, 48617),

Gene: Rooter_65 Start: 34611, Stop: 34946, Start Num: 63
Candidate Starts for Rooter_65:
(35, 34518), (Start: 63 @34611 has 1 MA's), (68, 34638),

Gene: RosiePosie_51 Start: 39220, Stop: 39738, Start Num: 32
Candidate Starts for RosiePosie_51:
(Start: 32 @39220 has 19 MA's), (40, 39235), (45, 39250), (Start: 56 @39295 has 2 MA's), (66, 39328), (89, 39460), (110, 39541), (116, 39589),

Gene: Sakai_77 Start: 44982, Stop: 45416, Start Num: 50
Candidate Starts for Sakai_77:
(11, 44766), (13, 44790), (30, 44904), (Start: 50 @44982 has 36 MA's), (84, 45132), (93, 45171), (97, 45183), (127, 45372),

Gene: Sarge_56 Start: 32052, Stop: 32387, Start Num: 64
Candidate Starts for Sarge_56:
(37, 31962), (48, 32004), (Start: 64 @32052 has 1 MA's), (68, 32079), (88, 32193),

Gene: Sashimi_78 Start: 45527, Stop: 45964, Start Num: 50
Candidate Starts for Sashimi_78:
(Start: 50 @45527 has 36 MA's), (69, 45584), (84, 45680), (97, 45731), (127, 45920),

Gene: Satrap_80 Start: 45800, Stop: 46234, Start Num: 50
Candidate Starts for Satrap_80:
(Start: 50 @45800 has 36 MA's), (84, 45950), (97, 46001), (116, 46085), (127, 46190),

Gene: Scavito_51 Start: 39218, Stop: 39736, Start Num: 32
Candidate Starts for Scavito_51:
(Start: 32 @39218 has 19 MA's), (40, 39233), (45, 39248), (Start: 56 @39293 has 2 MA's), (66, 39326), (89, 39458), (110, 39539), (116, 39587),

Gene: Seabastian_79 Start: 47298, Stop: 47669, Start Num: 51
Candidate Starts for Seabastian_79:

(41, 47253), (44, 47259), (Start: 51 @47298 has 16 MA's), (65, 47334), (69, 47355), (79, 47409), (82, 47433), (122, 47646),

Gene: Seahorse_88 Start: 50801, Stop: 51235, Start Num: 50

Candidate Starts for Seahorse_88:

(Start: 50 @50801 has 36 MA's), (84, 50951), (97, 51002), (116, 51086), (127, 51191),

Gene: Sneeze_47 Start: 35477, Stop: 35848, Start Num: 53

Candidate Starts for Sneeze_47:

(Start: 53 @35477 has 16 MA's),

Gene: SonDevVon_87 Start: 45926, Stop: 46360, Start Num: 50

Candidate Starts for SonDevVon_87:

(11, 45710), (13, 45734), (30, 45848), (Start: 50 @45926 has 36 MA's), (84, 46076), (93, 46115), (97, 46127), (127, 46316),

Gene: Sonali_49 Start: 39233, Stop: 39622, Start Num: 56

Candidate Starts for Sonali_49:

(Start: 56 @39233 has 2 MA's), (61, 39248), (69, 39281), (76, 39326), (79, 39335), (99, 39428), (106, 39452), (116, 39515), (123, 39596),

Gene: SpicyFrank_82 Start: 45513, Stop: 45947, Start Num: 50

Candidate Starts for SpicyFrank_82:

(13, 45321), (30, 45435), (Start: 50 @45513 has 36 MA's), (84, 45663), (93, 45702), (97, 45714), (105, 45738), (116, 45798), (127, 45903),

Gene: Sporco_82 Start: 46941, Stop: 47375, Start Num: 50

Candidate Starts for Sporco_82:

(11, 46725), (13, 46749), (30, 46863), (Start: 50 @46941 has 36 MA's), (84, 47091), (93, 47130), (97, 47142), (127, 47331),

Gene: SunnyJune_49 Start: 34283, Stop: 34666, Start Num: 52

Candidate Starts for SunnyJune_49:

(38, 34220), (43, 34238), (46, 34244), (Start: 52 @34283 has 2 MA's), (65, 34319), (72, 34355), (102, 34502), (108, 34526), (110, 34532),

Gene: Taheera_45 Start: 34853, Stop: 35224, Start Num: 53

Candidate Starts for Taheera_45:

(Start: 53 @34853 has 16 MA's),

Gene: Terror_45 Start: 34853, Stop: 35224, Start Num: 53

Candidate Starts for Terror_45:

(Start: 53 @34853 has 16 MA's),

Gene: ThayneTheZag_85 Start: 46273, Stop: 46623, Start Num: 62

Candidate Starts for ThayneTheZag_85:

(Start: 62 @46273 has 6 MA's), (68, 46300), (77, 46357), (84, 46399), (99, 46456),

Gene: ThetaBob_78 Start: 46922, Stop: 47296, Start Num: 51

Candidate Starts for ThetaBob_78:

(Start: 51 @46922 has 16 MA's), (65, 46958), (68, 46976), (70, 46985), (79, 47033), (84, 47069), (87, 47084), (95, 47114), (112, 47192),

Gene: Tiff81_76 Start: 44402, Stop: 44836, Start Num: 50
Candidate Starts for Tiff81_76:
(Start: 50 @44402 has 36 MA's), (84, 44552), (93, 44591), (97, 44603), (127, 44792),

Gene: Tophat_51 Start: 39219, Stop: 39737, Start Num: 32
Candidate Starts for Tophat_51:
(Start: 32 @39219 has 19 MA's), (40, 39234), (45, 39249), (Start: 56 @39294 has 2 MA's), (66, 39327),
(89, 39459), (110, 39540), (116, 39588),

Gene: Toron_80 Start: 48999, Stop: 49367, Start Num: 51
Candidate Starts for Toron_80:
(Start: 51 @48999 has 16 MA's), (68, 49053), (70, 49062), (75, 49092), (79, 49110), (95, 49191), (105,
49224), (115, 49287),

Gene: TripleJ_62 Start: 38075, Stop: 38479, Start Num: 52
Candidate Starts for TripleJ_62:
(Start: 52 @38075 has 2 MA's), (73, 38153), (75, 38177), (76, 38183), (91, 38249), (101, 38291), (102,
38294), (103, 38297), (105, 38303), (109, 38321), (113, 38357), (121, 38438),

Gene: Tweety_74 Start: 47222, Stop: 47596, Start Num: 51
Candidate Starts for Tweety_74:
(27, 47123), (41, 47174), (44, 47180), (Start: 51 @47222 has 16 MA's), (68, 47276), (79, 47333),

Gene: Vopal_82 Start: 47327, Stop: 47761, Start Num: 50
Candidate Starts for Vopal_82:
(11, 47114), (13, 47138), (30, 47252), (Start: 50 @47327 has 36 MA's), (84, 47477), (93, 47516), (97,
47528), (127, 47717),

Gene: Wachhund_72 Start: 44350, Stop: 44721, Start Num: 51
Candidate Starts for Wachhund_72:
(41, 44302), (44, 44308), (Start: 51 @44350 has 16 MA's), (65, 44386), (69, 44407), (79, 44461), (82,
44485), (122, 44698),

Gene: Windest_84 Start: 44509, Stop: 44943, Start Num: 50
Candidate Starts for Windest_84:
(30, 44431), (Start: 50 @44509 has 36 MA's), (84, 44659), (93, 44698), (97, 44710), (127, 44899),

Gene: YoungHarleezy_80 Start: 45534, Stop: 45968, Start Num: 50
Candidate Starts for YoungHarleezy_80:
(30, 45456), (Start: 50 @45534 has 36 MA's), (84, 45684), (93, 45723), (97, 45735), (127, 45924),