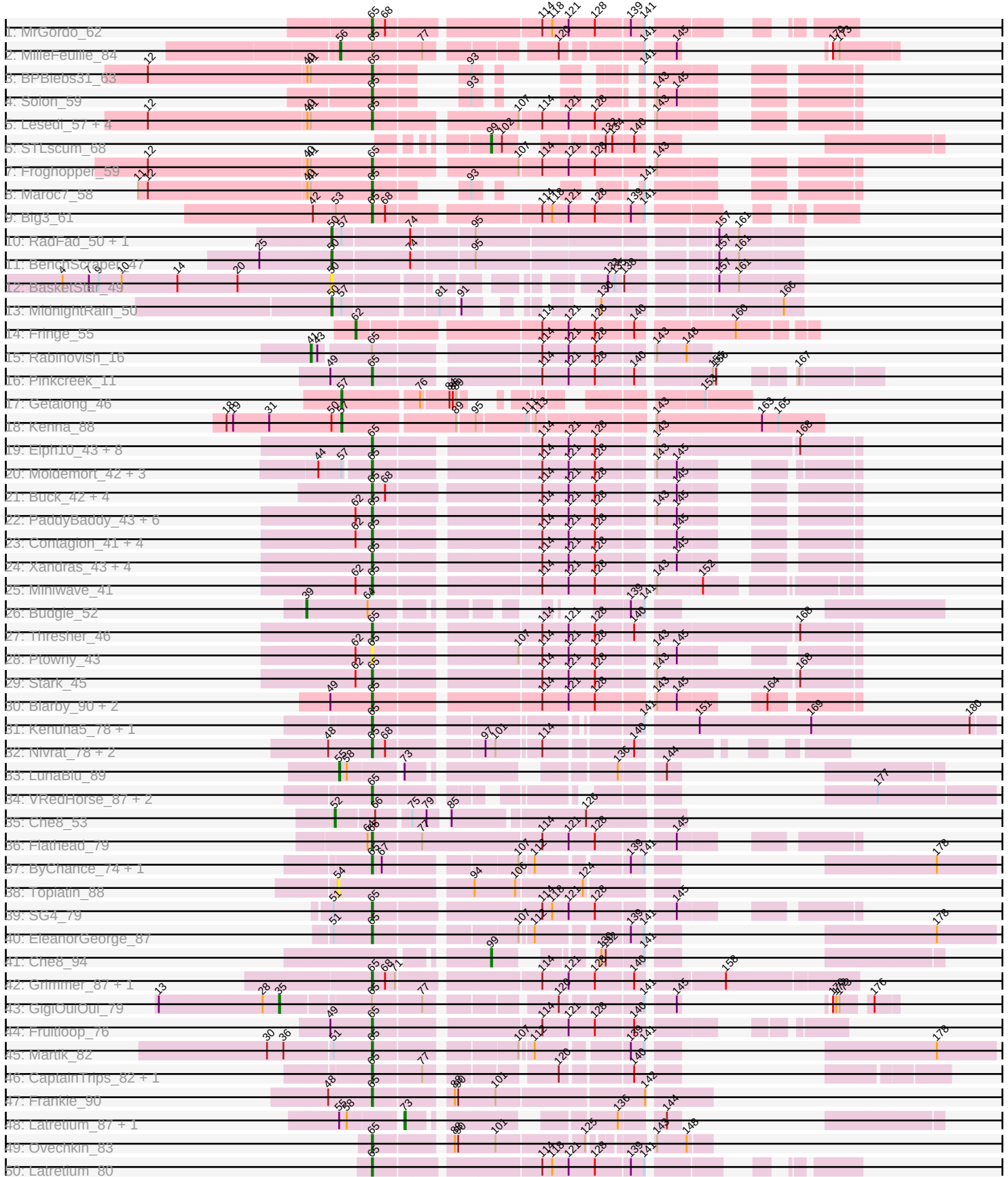
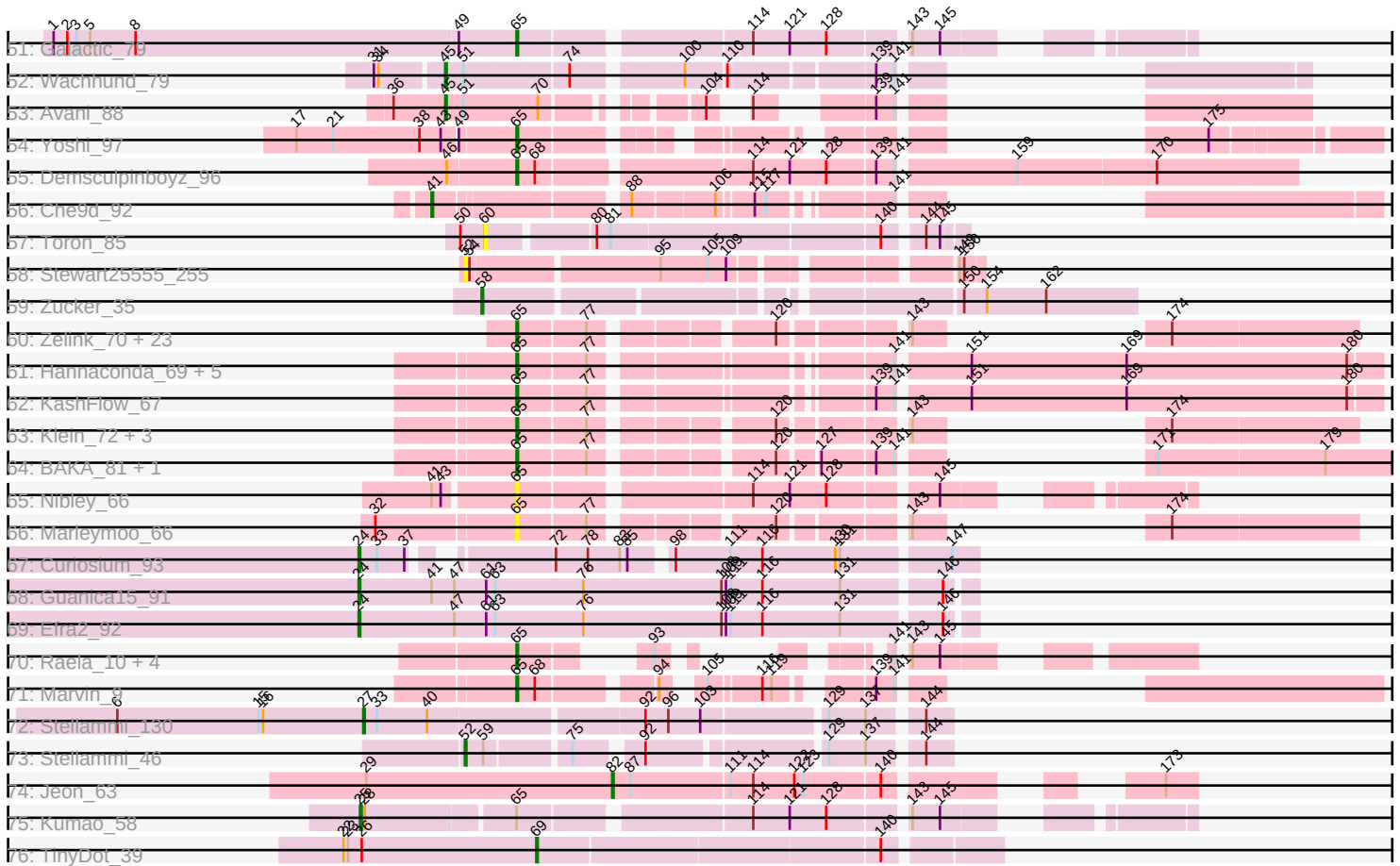


Pham 330557



Pham 330557



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 330557 Report

This analysis was run 09/05/26 on database version 662.

Pham number 330557 has 157 members, 15 are drafts.

Phages represented in each track:

- Track 1 : MrGordo_62
- Track 2 : MilleFeuille_84
- Track 3 : BPBiebs31_63
- Track 4 : Solon_59
- Track 5 : Lesedi_57, Fajezeel_62, Acme_63, Bxb1_55, Greg_62
- Track 6 : STLscum_68
- Track 7 : Froghopper_59
- Track 8 : Maroc7_58
- Track 9 : Big3_61
- Track 10 : RadFad_50, Hillester_50
- Track 11 : BenchScraper_47
- Track 12 : BasketStar_49
- Track 13 : MidnightRain_50
- Track 14 : Fringe_55
- Track 15 : Rabinovish_16
- Track 16 : Pinkcreek_11
- Track 17 : Getalong_46
- Track 18 : Kenna_88
- Track 19 : Elph10_43, NoSleep_45, Maxxinista_45, Lilac_46, Cjw1_44, Lilizi_43, Czyszczon1_44, RiverMonster_44, Murphy_45
- Track 20 : Moldemort_42, MadamMonkfish_42, Bogg_42, AmericanBeauty_43
- Track 21 : Buck_42, TeamEdward_44, StormChicken_43, Rimmer_42, Youngblood_43
- Track 22 : PaddyBaddy_43, DrDrey_44, Hopey_44, Phrux_42, HanKaySha_43, 244_45, ShereKhan_42
- Track 23 : Contagion_41, Cookies_41, Mosby_40, TeardropMSU_40, Tomaszewski_40
- Track 24 : Xandras_43, JeTaime_44, OrionPax_43, Filch_44, Pumpkin_45
- Track 25 : Miniwave_41
- Track 26 : Budgie_52
- Track 27 : Thresher_46
- Track 28 : Ptowny_43
- Track 29 : Stark_45
- Track 30 : Blarby_90, Zapner_89, Jabbawokkie_90
- Track 31 : Kenuha5_78, Nekros_71
- Track 32 : Nivrat_78, Che8_85, LilMoolah_80
- Track 33 : LunaBlu_89

- Track 34 : VRedHorse_87, Estave1_94, Avani_91
- Track 35 : Che8_53
- Track 36 : Flathead_79
- Track 37 : ByChance_74, ShowerHandel_83
- Track 38 : Topiatin_88
- Track 39 : SG4_79
- Track 40 : EleanorGeorge_87
- Track 41 : Che8_94
- Track 42 : Grimmer_87, Mahavrat_77
- Track 43 : GigiOuiOui_79
- Track 44 : Fruitloop_76
- Track 45 : Martik_82
- Track 46 : CaptainTrips_82, MinionDave_78
- Track 47 : Frankie_90
- Track 48 : Latretium_87, Dante_84
- Track 49 : Ovechkin_83
- Track 50 : Latretium_80
- Track 51 : Galactic_79
- Track 52 : Wachhund_79
- Track 53 : Avani_88
- Track 54 : Yoshi_97
- Track 55 : Demsculpinboyz_96
- Track 56 : Che9d_92
- Track 57 : Toron_85
- Track 58 : Stewart25555_255
- Track 59 : Zucker_35
- Track 60 : Zelink_70, Superphikiman_70, Halley_74, NihilNomen_73, Schatzie_67, Kalah2_67, Ejimix_72, Squint_73, Beem_72, JuicyJay_71, Phoebus_75, DmpstrDiver_72, Dallas_71, Odette_71, HokkenD_65, FairyPath_41, Porcelain_72, ThreeRngTarjay_70, Redno2_69, Qualification_42, MiaZeal_73, Lucky2013_70, Hughesyang_71, Ariel_72
- Track 61 : Hannaconda_69, BronnyJames_66, Aubs_83, Donkeykong_89, Shaboozey_65, SuperGrey_83
- Track 62 : KashFlow_67
- Track 63 : Klein_72, Latretium_83, Wanda_76, Minerva_78
- Track 64 : BAKA_81, Duke13_79
- Track 65 : Nibley_66
- Track 66 : Marleymoo_66
- Track 67 : Curiosium_93
- Track 68 : Guanica15_91
- Track 69 : Efra2_92
- Track 70 : Raela_10, Tesla_10, Poise_10, SG4_82, Blackbeetle_10
- Track 71 : Marvin_9
- Track 72 : Stellammi_130
- Track 73 : Stellammi_46
- Track 74 : Jeon_63
- Track 75 : Kumao_58
- Track 76 : TinyDot_39

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

The start number called the most often in the published annotations is 65, it was called in 113 of the 142 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 244_45, Acme_63, AmericanBeauty_43, Ariel_72, Aubs_83, Avani_91, BAKA_81, BPBiabs31_63, Beem_72, Big3_61, Blackbeetle_10, Blarby_90, Bogg_42, BronnyJames_66, Buck_42, Bxb1_55, ByChance_74, CaptainTrips_82, Che8_85, Cjw1_44, Contagion_41, Cookies_41, Czyszczo1_44, Dallas_71, Demsculpinboyz_96, DmpstrDiver_72, Donkeykong_89, DrDrey_44, Duke13_79, Ejimix_72, EleanorGeorge_87, Elph10_43, Estave1_94, FairyPath_41, Fajezeel_62, Filch_44, Flathead_79, Frankie_90, Froghopper_59, Fruitloop_76, Galactic_79, Greg_62, Grimmer_87, Halley_74, HanKaySha_43, Hannaconda_69, HokkenD_65, Hopey_44, Hughesyang_71, Jabbawokkie_90, JeTaime_44, JuicyJay_71, Kalah2_67, KashFlow_67, Kenuha5_78, Klein_72, Latretium_80, Latretium_83, Lesedi_57, LilMoolah_80, Lilac_46, Lilizi_43, Lucky2013_70, MadamMonkfish_42, Mahavrat_77, Marleymoo_66, Maroc7_58, Martik_82, Marvin_9, Maxxinista_45, MiaZeal_73, Minerva_78, MinionDave_78, Miniwave_41, Moldemort_42, Mosby_40, MrGordo_62, Murphy_45, Nekros_71, Nibley_66, NihilNomen_73, Nivrat_78, NoSleep_45, Odette_71, OrionPax_43, Ovechkin_83, PaddyBaddy_43, Phoebus_75, Phrux_42, Pinkcreek_11, Poise_10, Porcelain_72, Ptowny_43, Pumpkin_45, Quallification_42, Raela_10, Redno2_69, Rimmer_42, RiverMonster_44, SG4_79, SG4_82, Schatzie_67, Shaboozey_65, ShereKhan_42, ShowerHandel_83, Solon_59, Squint_73, Stark_45, StormChicken_43, SuperGrey_83, Superphikiman_70, TeamEdward_44, TeardropMSU_40, Tesla_10, ThreeRngTarjay_70, Thresher_46, Tomaszewski_40, VRedHorse_87, Wanda_76, Xandras_43, Yoshi_97, Youngblood_43, Zapner_89, Zelink_70,

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

- GigiOuiOui_79, Kumao_58, MilleFeuille_84, Rabinovish_16,

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

- Avani_88, BasketStar_49, BenchScraper_47, Budgie_52, Che8_53, Che8_94, Che9d_92, Curiosium_93, Dante_84, Efra2_92, Fringe_55, Getalong_46, Guanica15_91, Hillester_50, Jeon_63, Kenna_88, Latretium_87, LunaBlu_89, MidnightRain_50, RadFad_50, STLscum_68, Stellammi_130, Stellammi_46, Stewart25555_255, TinyDot_39, Topiatin_88, Toron_85, Wachhund_79, Zucker_35,

Summary by start number:

Start 24:

- Found in 3 of 157 (1.9%) of genes in pham
- Manual Annotations of this start: 3 of 142
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Curiosium_93 (K1), Efra2_92 (K1), Guanica15_91 (K1),

Start 25:

- Found in 2 of 157 (1.3%) of genes in pham
- Manual Annotations of this start: 1 of 142
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Kumao_58 (singleton),

Start 27:

- Found in 1 of 157 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 142
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Stellammi_130 (UNK),

Start 35:

- Found in 1 of 157 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 142
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GigiOuiOui_79 (F1),

Start 39:

- Found in 1 of 157 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 142
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Budgie_52 (E),

Start 41:

- Found in 12 of 157 (7.6%) of genes in pham
- Manual Annotations of this start: 2 of 142
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Che9d_92 (F2), Rabinovish_16 (C1),

Start 45:

- Found in 2 of 157 (1.3%) of genes in pham
- Manual Annotations of this start: 2 of 142
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Avani_88 (F2), Wachhund_79 (F1),

Start 50:

- Found in 7 of 157 (4.5%) of genes in pham
- Manual Annotations of this start: 4 of 142
- Called 71.4% of time when present
- Phage (with cluster) where this start called: BasketStar_49 (AY), BenchScraper_47 (AY), Hillester_50 (AY), MidnightRain_50 (AY), RadFad_50 (AY),

Start 52:

- Found in 3 of 157 (1.9%) of genes in pham
- Manual Annotations of this start: 2 of 142
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Che8_53 (F1), Stellammi_46 (UNK), Stewart25555_255 (FC),

Start 54:

- Found in 2 of 157 (1.3%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Topiatin_88 (F1),

Start 55:

- Found in 3 of 157 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 142

- Called 33.3% of time when present
- Phage (with cluster) where this start called: LunaBlu_89 (F1),

Start 56:

- Found in 1 of 157 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 142
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MilleFeuille_84 (A1),

Start 57:

- Found in 9 of 157 (5.7%) of genes in pham
- Manual Annotations of this start: 2 of 142
- Called 22.2% of time when present
- Phage (with cluster) where this start called: Getalong_46 (DN1), Kenna_88 (DN1),

Start 58:

- Found in 4 of 157 (2.5%) of genes in pham
- Manual Annotations of this start: 1 of 142
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Zucker_35 (FN),

Start 60:

- Found in 1 of 157 (0.6%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Toron_85 (F6),

Start 62:

- Found in 16 of 157 (10.2%) of genes in pham
- Manual Annotations of this start: 1 of 142
- Called 6.2% of time when present
- Phage (with cluster) where this start called: Fringe_55 (B1),

Start 65:

- Found in 128 of 157 (81.5%) of genes in pham
- Manual Annotations of this start: 113 of 142
- Called 96.9% of time when present
- Phage (with cluster) where this start called: 244_45 (E), Acme_63 (A1), AmericanBeauty_43 (E), Ariel_72 (J), Aubs_83 (F1), Avani_91 (F2), BAKA_81 (J), BPBiebs31_63 (A1), Beem_72 (J), Big3_61 (A1), Blackbeetle_10 (S), Blarby_90 (F), Bogg_42 (E), BronnyJames_66 (J), Buck_42 (E), Bxb1_55 (A1), ByChance_74 (F1), CaptainTrips_82 (F1), Che8_85 (F1), Cjw1_44 (E), Contagion_41 (E), Cookies_41 (E), Czyszczonek_44 (E), Dallas_71 (J), Demsculpinboyz_96 (F2), DmpstrDiver_72 (J), Donkeykong_89 (F1), DrDrey_44 (E), Duke13_79 (J), Ejimix_72 (J), EleanorGeorge_87 (F1), Elph10_43 (E), Estave1_94 (F1), FairyPath_41 (E), Fajezeel_62 (A1), Filch_44 (E), Flathead_79 (F1), Frankie_90 (F1), Froghopper_59 (A1), Fruitloop_76 (F1), Galactic_79 (F1), Greg_62 (A1), Grimmer_87 (F1), Halley_74 (J), HanKaySha_43 (E), Hannaconda_69 (J), HokkenD_65 (J), Hopey_44 (E), Hughesyang_71 (J), Jabbawokkie_90 (F2), JeTaime_44 (E), JuicyJay_71 (J), Kalah2_67 (J), KashFlow_67 (J), Kenuha5_78 (F1), Klein_72 (J), Latretium_80 (F1), Latretium_83 (F1), Lesedi_57 (A1), LilMoolah_80 (F1), Lilac_46 (E), Lilizi_43 (E), Lucky2013_70 (J), MadamMonkfish_42 (E), Mahavrat_77 (F1), Marleymoo_66 (J), Maroc7_58 (A1), Martik_82 (F1), Marvin_9 (S), Maxxinista_45 (E), MiaZeal_73 (J),

Minerva_78 (J), MinionDave_78 (F1), Miniwave_41 (E), Moldemort_42 (E), Mosby_40 (E), MrGordo_62 (A1), Murphy_45 (E), Nekros_71 (J), Nibley_66 (J), NihilNomen_73 (J), Nivrat_78 (F1), NoSleep_45 (E), Odette_71 (J), OrionPax_43 (E), Ovechkin_83 (F1), PaddyBaddy_43 (E), Phoebus_75 (J), Phrux_42 (E), Pinkcreek_11 (C1), Poise_10 (S), Porcelain_72 (J), Ptowny_43 (E), Pumpkin_45 (E), Quallification_42 (E), Raela_10 (S), Redno2_69 (J), Rimmer_42 (E), RiverMonster_44 (E), SG4_79 (F1), SG4_82 (F1), Schatzie_67 (J), Shaboozey_65 (J), ShereKhan_42 (E), ShowerHandel_83 (F1), Solon_59 (A1), Squint_73 (J), Stark_45 (E), StormChicken_43 (E), SuperGrey_83 (F1), Superphikiman_70 (J), TeamEdward_44 (E), TeardropMSU_40 (E), Tesla_10 (S), ThreeRngTarjay_70 (J), Thresher_46 (E), Tomaszewski_40 (E), VRedHorse_87 (F1), Wanda_76 (J), Xandras_43 (E), Yoshi_97 (F2), Youngblood_43 (E), Zapner_89 (F2), Zelink_70 (J),

Start 69:

- Found in 1 of 157 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 142
- Called 100.0% of time when present
- Phage (with cluster) where this start called: TinyDot_39 (singleton),

Start 73:

- Found in 3 of 157 (1.9%) of genes in pham
- Manual Annotations of this start: 2 of 142
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Dante_84 (F1), Latretium_87 (F1),

Start 82:

- Found in 1 of 157 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 142
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jeon_63 (W),

Start 99:

- Found in 2 of 157 (1.3%) of genes in pham
- Manual Annotations of this start: 2 of 142
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Che8_94 (F1), STLscum_68 (A1),

Summary by clusters:

There are 18 clusters represented in this pham: F1, F2, E, F6, F, J, singleton, A1, S, FC, DN1, B1, W, AY, K1, UNK, C1, FN,

Info for manual annotations of cluster A1:

- Start number 56 was manually annotated 1 time for cluster A1.
- Start number 65 was manually annotated 11 times for cluster A1.
- Start number 99 was manually annotated 1 time for cluster A1.

Info for manual annotations of cluster AY:

- Start number 50 was manually annotated 4 times for cluster AY.

Info for manual annotations of cluster B1:

- Start number 62 was manually annotated 1 time for cluster B1.

Info for manual annotations of cluster C1:

- Start number 41 was manually annotated 1 time for cluster C1.
- Start number 65 was manually annotated 1 time for cluster C1.

Info for manual annotations of cluster DN1:

- Start number 57 was manually annotated 2 times for cluster DN1.

Info for manual annotations of cluster E:

- Start number 39 was manually annotated 1 time for cluster E.
- Start number 65 was manually annotated 37 times for cluster E.

Info for manual annotations of cluster F1:

- Start number 35 was manually annotated 1 time for cluster F1.
- Start number 45 was manually annotated 1 time for cluster F1.
- Start number 52 was manually annotated 1 time for cluster F1.
- Start number 55 was manually annotated 1 time for cluster F1.
- Start number 65 was manually annotated 26 times for cluster F1.
- Start number 73 was manually annotated 2 times for cluster F1.
- Start number 99 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster F2:

- Start number 41 was manually annotated 1 time for cluster F2.
- Start number 45 was manually annotated 1 time for cluster F2.
- Start number 65 was manually annotated 5 times for cluster F2.

Info for manual annotations of cluster FN:

- Start number 58 was manually annotated 1 time for cluster FN.

Info for manual annotations of cluster J:

- Start number 65 was manually annotated 28 times for cluster J.

Info for manual annotations of cluster K1:

- Start number 24 was manually annotated 3 times for cluster K1.

Info for manual annotations of cluster S:

- Start number 65 was manually annotated 5 times for cluster S.

Info for manual annotations of cluster UNK:

- Start number 27 was manually annotated 1 time for cluster UNK.
- Start number 52 was manually annotated 1 time for cluster UNK.

Info for manual annotations of cluster W:

- Start number 82 was manually annotated 1 time for cluster W.

Gene Information:

Gene: 244_45 Start: 35533, Stop: 35168, Start Num: 65

Candidate Starts for 244_45:

(Start: 62 @35548 has 1 MA's), (Start: 65 @35533 has 113 MA's), (114, 35398), (121, 35374), (128, 35350), (143, 35305), (145, 35287),

Gene: Acme_63 Start: 41329, Stop: 40964, Start Num: 65

Candidate Starts for Acme_63:

(12, 41530), (40, 41386), (Start: 41 @41383 has 2 MA's), (Start: 65 @41329 has 113 MA's), (107, 41212), (114, 41194), (121, 41170), (128, 41146), (143, 41101),

Gene: AmericanBeauty_43 Start: 35021, Stop: 34656, Start Num: 65

Candidate Starts for AmericanBeauty_43:

(44, 35060), (Start: 57 @35042 has 2 MA's), (Start: 65 @35021 has 113 MA's), (114, 34886), (121, 34862), (128, 34838), (143, 34793), (145, 34775),

Gene: Ariel_72 Start: 46298, Stop: 45933, Start Num: 65

Candidate Starts for Ariel_72:

(Start: 65 @46298 has 113 MA's), (77, 46256), (120, 46160), (143, 46091), (174, 46052),

Gene: Aubs_83 Start: 50008, Stop: 50520, Start Num: 65

Candidate Starts for Aubs_83:

(Start: 65 @50008 has 113 MA's), (77, 50050), (141, 50212), (151, 50254), (169, 50356), (180, 50500),

Gene: Avani_88 Start: 46792, Stop: 47127, Start Num: 45

Candidate Starts for Avani_88:

(36, 46759), (Start: 45 @46792 has 2 MA's), (51, 46804), (70, 46852), (104, 46927), (114, 46936), (139, 46984), (141, 46996),

Gene: Avani_91 Start: 47610, Stop: 47966, Start Num: 65

Candidate Starts for Avani_91:

(Start: 65 @47610 has 113 MA's), (177, 47862),

Gene: BAKA_81 Start: 52347, Stop: 51940, Start Num: 65

Candidate Starts for BAKA_81:

(Start: 65 @52347 has 113 MA's), (77, 52305), (120, 52209), (127, 52188), (139, 52155), (141, 52143), (171, 52110), (179, 52002),

Gene: BPBiebs31_63 Start: 41560, Stop: 41312, Start Num: 65

Candidate Starts for BPBiebs31_63:

(12, 41761), (40, 41617), (Start: 41 @41614 has 2 MA's), (Start: 65 @41560 has 113 MA's), (93, 41512), (141, 41452),

Gene: BasketStar_49 Start: 30508, Stop: 30852, Start Num: 50

Candidate Starts for BasketStar_49:

(4, 30265), (7, 30289), (9, 30298), (10, 30319), (14, 30370), (20, 30424), (Start: 50 @30508 has 4 MA's), (133, 30697), (135, 30703), (138, 30709), (157, 30778), (161, 30796),

Gene: Beem_72 Start: 50575, Stop: 50210, Start Num: 65

Candidate Starts for Beem_72:

(Start: 65 @50575 has 113 MA's), (77, 50533), (120, 50437), (143, 50368), (174, 50329),

Gene: BenchScraper_47 Start: 29609, Stop: 30001, Start Num: 50

Candidate Starts for BenchScraper_47:

(Start: 25 @29546 has 1 MA's), (Start: 50 @29609 has 4 MA's), (74, 29678), (95, 29732), (157, 29927), (161, 29945),

Gene: Big3_61 Start: 41706, Stop: 41350, Start Num: 65

Candidate Starts for Big3_61:

(42, 41754), (53, 41736), (Start: 65 @41706 has 113 MA's), (68, 41694), (114, 41568), (118, 41559), (121, 41544), (128, 41520), (139, 41490), (141, 41478),

Gene: Blackbeetle_10 Start: 3064, Stop: 3315, Start Num: 65

Candidate Starts for Blackbeetle_10:

(Start: 65 @3064 has 113 MA's), (93, 3112), (141, 3172), (143, 3175), (145, 3193),

Gene: Blarby_90 Start: 47520, Stop: 47888, Start Num: 65

Candidate Starts for Blarby_90:

(49, 47484), (Start: 65 @47520 has 113 MA's), (114, 47655), (121, 47679), (128, 47703), (143, 47748), (145, 47766), (164, 47814),

Gene: Bogg_42 Start: 34449, Stop: 34084, Start Num: 65

Candidate Starts for Bogg_42:

(44, 34488), (Start: 57 @34470 has 2 MA's), (Start: 65 @34449 has 113 MA's), (114, 34314), (121, 34290), (128, 34266), (143, 34221), (145, 34203),

Gene: BronnyJames_66 Start: 44654, Stop: 44142, Start Num: 65

Candidate Starts for BronnyJames_66:

(Start: 65 @44654 has 113 MA's), (77, 44612), (141, 44450), (151, 44408), (169, 44306), (180, 44162),

Gene: Buck_42 Start: 35321, Stop: 34953, Start Num: 65

Candidate Starts for Buck_42:

(Start: 65 @35321 has 113 MA's), (68, 35309), (114, 35183), (121, 35159), (128, 35135), (145, 35072),

Gene: Budgie_52 Start: 36596, Stop: 36261, Start Num: 39

Candidate Starts for Budgie_52:

(Start: 39 @36596 has 1 MA's), (64, 36542), (139, 36404), (141, 36392),

Gene: Bxb1_55 Start: 39572, Stop: 39207, Start Num: 65

Candidate Starts for Bxb1_55:

(12, 39773), (40, 39629), (Start: 41 @39626 has 2 MA's), (Start: 65 @39572 has 113 MA's), (107, 39455), (114, 39437), (121, 39413), (128, 39389), (143, 39344),

Gene: ByChance_74 Start: 45038, Stop: 45421, Start Num: 65

Candidate Starts for ByChance_74:

(Start: 65 @45038 has 113 MA's), (67, 45047), (107, 45149), (112, 45158), (139, 45230), (141, 45242), (178, 45368),

Gene: CaptainTrips_82 Start: 48768, Stop: 49100, Start Num: 65

Candidate Starts for CaptainTrips_82:

(Start: 65 @48768 has 113 MA's), (77, 48810), (120, 48906), (140, 48963),

Gene: Che8_53 Start: 37842, Stop: 38123, Start Num: 52

Candidate Starts for Che8_53:

(Start: 52 @37842 has 2 MA's), (66, 37875), (75, 37902), (79, 37914), (85, 37926), (126, 38040),

Gene: Che8_85 Start: 49488, Stop: 49877, Start Num: 65

Candidate Starts for Che8_85:

(48, 49449), (Start: 65 @49488 has 113 MA's), (68, 49500), (97, 49572), (101, 49581), (114, 49617), (140, 49689),

Gene: Che8_94 Start: 51968, Stop: 52192, Start Num: 99

Candidate Starts for Che8_94:

(Start: 99 @51968 has 2 MA's), (130, 52028), (132, 52031), (141, 52064),

Gene: Che9d_92 Start: 49021, Stop: 49440, Start Num: 41

Candidate Starts for Che9d_92:

(Start: 41 @49021 has 2 MA's), (88, 49126), (106, 49174), (115, 49192), (117, 49198), (141, 49264),

Gene: Cjw1_44 Start: 36482, Stop: 36078, Start Num: 65

Candidate Starts for Cjw1_44:

(Start: 65 @36482 has 113 MA's), (114, 36347), (121, 36323), (128, 36299), (143, 36254), (168, 36131),

Gene: Contagion_41 Start: 34707, Stop: 34342, Start Num: 65

Candidate Starts for Contagion_41:

(Start: 62 @34722 has 1 MA's), (Start: 65 @34707 has 113 MA's), (114, 34572), (121, 34548), (128, 34524), (145, 34461),

Gene: Cookies_41 Start: 35072, Stop: 34707, Start Num: 65

Candidate Starts for Cookies_41:

(Start: 62 @35087 has 1 MA's), (Start: 65 @35072 has 113 MA's), (114, 34937), (121, 34913), (128, 34889), (145, 34826),

Gene: Curiosium_93 Start: 56159, Stop: 56515, Start Num: 24

Candidate Starts for Curiosium_93:

(Start: 24 @56159 has 3 MA's), (33, 56171), (37, 56189), (72, 56258), (78, 56279), (83, 56300), (85, 56303), (98, 56324), (111, 56360), (116, 56381), (130, 56429), (131, 56432), (147, 56498),

Gene: Czyszczone1_44 Start: 35291, Stop: 34887, Start Num: 65

Candidate Starts for Czyszczone1_44:

(Start: 65 @35291 has 113 MA's), (114, 35156), (121, 35132), (128, 35108), (143, 35063), (168, 34940),

Gene: Dallas_71 Start: 49496, Stop: 49131, Start Num: 65

Candidate Starts for Dallas_71:

(Start: 65 @49496 has 113 MA's), (77, 49454), (120, 49358), (143, 49289), (174, 49250),

Gene: Dante_84 Start: 51687, Stop: 51980, Start Num: 73

Candidate Starts for Dante_84:

(Start: 55 @51639 has 1 MA's), (Start: 58 @51645 has 1 MA's), (Start: 73 @51687 has 2 MA's), (136, 51831), (144, 51864),

Gene: Demsculpinboyz_96 Start: 48718, Stop: 49200, Start Num: 65

Candidate Starts for Demsculpinboyz_96:

(46, 48679), (Start: 65 @48718 has 113 MA's), (68, 48730), (114, 48856), (121, 48880), (128, 48904), (139, 48934), (141, 48946), (159, 49018), (170, 49108),

Gene: DmpstrDiver_72 Start: 49923, Stop: 49558, Start Num: 65

Candidate Starts for DmpstrDiver_72:

(Start: 65 @49923 has 113 MA's), (77, 49881), (120, 49785), (143, 49716), (174, 49677),

Gene: Donkeykong_89 Start: 51613, Stop: 52125, Start Num: 65
Candidate Starts for Donkeykong_89:
(Start: 65 @51613 has 113 MA's), (77, 51655), (141, 51817), (151, 51859), (169, 51961), (180, 52105),

Gene: DrDrey_44 Start: 36335, Stop: 35970, Start Num: 65
Candidate Starts for DrDrey_44:
(Start: 62 @36350 has 1 MA's), (Start: 65 @36335 has 113 MA's), (114, 36200), (121, 36176), (128, 36152), (143, 36107), (145, 36089),

Gene: Duke13_79 Start: 51559, Stop: 51152, Start Num: 65
Candidate Starts for Duke13_79:
(Start: 65 @51559 has 113 MA's), (77, 51517), (120, 51421), (127, 51400), (139, 51367), (141, 51355), (171, 51322), (179, 51214),

Gene: Efra2_92 Start: 56100, Stop: 56492, Start Num: 24
Candidate Starts for Efra2_92:
(Start: 24 @56100 has 3 MA's), (47, 56163), (61, 56184), (63, 56190), (76, 56247), (108, 56337), (109, 56340), (111, 56343), (116, 56364), (131, 56415), (146, 56475),

Gene: Ejimix_72 Start: 51361, Stop: 50996, Start Num: 65
Candidate Starts for Ejimix_72:
(Start: 65 @51361 has 113 MA's), (77, 51319), (120, 51223), (143, 51154), (174, 51115),

Gene: EleanorGeorge_87 Start: 51109, Stop: 51492, Start Num: 65
Candidate Starts for EleanorGeorge_87:
(51, 51076), (Start: 65 @51109 has 113 MA's), (107, 51220), (112, 51229), (139, 51301), (141, 51313), (178, 51439),

Gene: Elph10_43 Start: 34783, Stop: 34379, Start Num: 65
Candidate Starts for Elph10_43:
(Start: 65 @34783 has 113 MA's), (114, 34648), (121, 34624), (128, 34600), (143, 34555), (168, 34432),

Gene: Estave1_94 Start: 53968, Stop: 54324, Start Num: 65
Candidate Starts for Estave1_94:
(Start: 65 @53968 has 113 MA's), (177, 54220),

Gene: FairyPath_41 Start: 35211, Stop: 34846, Start Num: 65
Candidate Starts for FairyPath_41:
(Start: 65 @35211 has 113 MA's), (77, 35169), (120, 35073), (143, 35004), (174, 34965),

Gene: Fajezeel_62 Start: 40619, Stop: 40254, Start Num: 65
Candidate Starts for Fajezeel_62:
(12, 40820), (40, 40676), (Start: 41 @40673 has 2 MA's), (Start: 65 @40619 has 113 MA's), (107, 40502), (114, 40484), (121, 40460), (128, 40436), (143, 40391),

Gene: Filch_44 Start: 35012, Stop: 34647, Start Num: 65
Candidate Starts for Filch_44:
(Start: 65 @35012 has 113 MA's), (114, 34877), (121, 34853), (128, 34829), (145, 34766),

Gene: Flathead_79 Start: 48157, Stop: 48534, Start Num: 65
Candidate Starts for Flathead_79:

(64, 48154), (Start: 65 @48157 has 113 MA's), (77, 48199), (114, 48304), (121, 48328), (128, 48352), (145, 48415),

Gene: Frankie_90 Start: 50801, Stop: 51076, Start Num: 65

Candidate Starts for Frankie_90:

(48, 50762), (Start: 65 @50801 has 113 MA's), (88, 50861), (90, 50864), (101, 50897), (142, 51023),

Gene: Fringe_55 Start: 47885, Stop: 47511, Start Num: 62

Candidate Starts for Fringe_55:

(Start: 62 @47885 has 1 MA's), (114, 47735), (121, 47711), (128, 47687), (140, 47654), (160, 47573),

Gene: Froghopper_59 Start: 39967, Stop: 39602, Start Num: 65

Candidate Starts for Froghopper_59:

(12, 40168), (40, 40024), (Start: 41 @40021 has 2 MA's), (Start: 65 @39967 has 113 MA's), (107, 39850), (114, 39832), (121, 39808), (128, 39784), (143, 39739),

Gene: Fruitloop_76 Start: 48252, Stop: 48602, Start Num: 65

Candidate Starts for Fruitloop_76:

(49, 48216), (Start: 65 @48252 has 113 MA's), (114, 48387), (121, 48411), (128, 48435), (140, 48468),

Gene: Galactic_79 Start: 48078, Stop: 48443, Start Num: 65

Candidate Starts for Galactic_79:

(1, 47778), (2, 47787), (3, 47793), (5, 47802), (8, 47832), (49, 48042), (Start: 65 @48078 has 113 MA's), (114, 48213), (121, 48237), (128, 48261), (143, 48306), (145, 48324),

Gene: Getalong_46 Start: 32723, Stop: 33001, Start Num: 57

Candidate Starts for Getalong_46:

(Start: 57 @32723 has 2 MA's), (76, 32789), (84, 32813), (86, 32816), (89, 32819), (153, 32963),

Gene: GigiOuiOui_79 Start: 48947, Stop: 49300, Start Num: 35

Candidate Starts for GigiOuiOui_79:

(13, 48839), (28, 48932), (Start: 35 @48947 has 1 MA's), (Start: 65 @49022 has 113 MA's), (77, 49064), (120, 49160), (141, 49226), (145, 49247), (170, 49253), (172, 49256), (173, 49259), (176, 49280),

Gene: Greg_62 Start: 40619, Stop: 40254, Start Num: 65

Candidate Starts for Greg_62:

(12, 40820), (40, 40676), (Start: 41 @40673 has 2 MA's), (Start: 65 @40619 has 113 MA's), (107, 40502), (114, 40484), (121, 40460), (128, 40436), (143, 40391),

Gene: Grimmer_87 Start: 49019, Stop: 49426, Start Num: 65

Candidate Starts for Grimmer_87:

(Start: 65 @49019 has 113 MA's), (68, 49031), (71, 49040), (114, 49157), (121, 49181), (128, 49205), (140, 49238), (158, 49310),

Gene: Guanica15_91 Start: 55792, Stop: 56184, Start Num: 24

Candidate Starts for Guanica15_91:

(Start: 24 @55792 has 3 MA's), (Start: 41 @55840 has 2 MA's), (47, 55855), (61, 55876), (63, 55882), (76, 55939), (108, 56029), (109, 56032), (111, 56035), (116, 56056), (131, 56107), (146, 56167),

Gene: Halley_74 Start: 50575, Stop: 50210, Start Num: 65

Candidate Starts for Halley_74:

(Start: 65 @50575 has 113 MA's), (77, 50533), (120, 50437), (143, 50368), (174, 50329),

Gene: HanKaySha_43 Start: 34995, Stop: 34630, Start Num: 65

Candidate Starts for HanKaySha_43:

(Start: 62 @35010 has 1 MA's), (Start: 65 @34995 has 113 MA's), (114, 34860), (121, 34836), (128, 34812), (143, 34767), (145, 34749),

Gene: Hannaconda_69 Start: 45759, Stop: 45247, Start Num: 65

Candidate Starts for Hannaconda_69:

(Start: 65 @45759 has 113 MA's), (77, 45717), (141, 45555), (151, 45513), (169, 45411), (180, 45267),

Gene: Hillester_50 Start: 30882, Stop: 31274, Start Num: 50

Candidate Starts for Hillester_50:

(Start: 50 @30882 has 4 MA's), (Start: 57 @30891 has 2 MA's), (74, 30951), (95, 31005), (157, 31200), (161, 31218),

Gene: HokkenD_65 Start: 48844, Stop: 48479, Start Num: 65

Candidate Starts for HokkenD_65:

(Start: 65 @48844 has 113 MA's), (77, 48802), (120, 48706), (143, 48637), (174, 48598),

Gene: Hopey_44 Start: 35530, Stop: 35165, Start Num: 65

Candidate Starts for Hopey_44:

(Start: 62 @35545 has 1 MA's), (Start: 65 @35530 has 113 MA's), (114, 35395), (121, 35371), (128, 35347), (143, 35302), (145, 35284),

Gene: Hughesyang_71 Start: 50504, Stop: 50139, Start Num: 65

Candidate Starts for Hughesyang_71:

(Start: 65 @50504 has 113 MA's), (77, 50462), (120, 50366), (143, 50297), (174, 50258),

Gene: Jabbawokkie_90 Start: 47440, Stop: 47808, Start Num: 65

Candidate Starts for Jabbawokkie_90:

(49, 47404), (Start: 65 @47440 has 113 MA's), (114, 47575), (121, 47599), (128, 47623), (143, 47668), (145, 47686), (164, 47734),

Gene: JeTaime_44 Start: 36054, Stop: 35689, Start Num: 65

Candidate Starts for JeTaime_44:

(Start: 65 @36054 has 113 MA's), (114, 35919), (121, 35895), (128, 35871), (145, 35808),

Gene: Jeon_63 Start: 48868, Stop: 49173, Start Num: 82

Candidate Starts for Jeon_63:

(29, 48709), (Start: 82 @48868 has 1 MA's), (87, 48880), (111, 48943), (114, 48958), (122, 48985), (123, 48991), (140, 49039), (173, 49153),

Gene: JuicyJay_71 Start: 51709, Stop: 51344, Start Num: 65

Candidate Starts for JuicyJay_71:

(Start: 65 @51709 has 113 MA's), (77, 51667), (120, 51571), (143, 51502), (174, 51463),

Gene: Kalah2_67 Start: 49868, Stop: 49503, Start Num: 65

Candidate Starts for Kalah2_67:

(Start: 65 @49868 has 113 MA's), (77, 49826), (120, 49730), (143, 49661), (174, 49622),

Gene: KashFlow_67 Start: 45630, Stop: 45118, Start Num: 65

Candidate Starts for KashFlow_67:

(Start: 65 @45630 has 113 MA's), (77, 45588), (139, 45438), (141, 45426), (151, 45384), (169, 45282), (180, 45138),

Gene: Kenna_88 Start: 49368, Stop: 49775, Start Num: 57

Candidate Starts for Kenna_88:

(18, 49263), (19, 49269), (31, 49302), (Start: 50 @49359 has 4 MA's), (Start: 57 @49368 has 2 MA's), (89, 49467), (95, 49482), (111, 49524), (113, 49530), (143, 49623), (163, 49719), (165, 49734),

Gene: Kenuha5_78 Start: 49646, Stop: 50158, Start Num: 65

Candidate Starts for Kenuha5_78:

(Start: 65 @49646 has 113 MA's), (141, 49850), (151, 49892), (169, 49994), (180, 50138),

Gene: Klein_72 Start: 49891, Stop: 49526, Start Num: 65

Candidate Starts for Klein_72:

(Start: 65 @49891 has 113 MA's), (77, 49849), (120, 49753), (143, 49684), (174, 49645),

Gene: Kumao_58 Start: 42552, Stop: 43010, Start Num: 25

Candidate Starts for Kumao_58:

(Start: 25 @42552 has 1 MA's), (28, 42555), (Start: 65 @42645 has 113 MA's), (114, 42780), (121, 42804), (128, 42828), (143, 42873), (145, 42891),

Gene: Latretium_87 Start: 49978, Stop: 50271, Start Num: 73

Candidate Starts for Latretium_87:

(Start: 55 @49930 has 1 MA's), (Start: 58 @49936 has 1 MA's), (Start: 73 @49978 has 2 MA's), (136, 50122), (144, 50155),

Gene: Latretium_80 Start: 47741, Stop: 48100, Start Num: 65

Candidate Starts for Latretium_80:

(Start: 65 @47741 has 113 MA's), (114, 47879), (118, 47888), (121, 47903), (128, 47927), (139, 47957), (141, 47969),

Gene: Latretium_83 Start: 48583, Stop: 48948, Start Num: 65

Candidate Starts for Latretium_83:

(Start: 65 @48583 has 113 MA's), (77, 48625), (120, 48721), (143, 48790), (174, 48829),

Gene: Lesedi_57 Start: 39252, Stop: 38887, Start Num: 65

Candidate Starts for Lesedi_57:

(12, 39453), (40, 39309), (Start: 41 @39306 has 2 MA's), (Start: 65 @39252 has 113 MA's), (107, 39135), (114, 39117), (121, 39093), (128, 39069), (143, 39024),

Gene: LilMoolah_80 Start: 49043, Stop: 49381, Start Num: 65

Candidate Starts for LilMoolah_80:

(48, 49004), (Start: 65 @49043 has 113 MA's), (68, 49055), (97, 49127), (101, 49136), (114, 49172), (140, 49244),

Gene: Lilac_46 Start: 35189, Stop: 34785, Start Num: 65

Candidate Starts for Lilac_46:

(Start: 65 @35189 has 113 MA's), (114, 35054), (121, 35030), (128, 35006), (143, 34961), (168, 34838),

Gene: Lilizi_43 Start: 34863, Stop: 34459, Start Num: 65

Candidate Starts for Lilizi_43:

(Start: 65 @34863 has 113 MA's), (114, 34728), (121, 34704), (128, 34680), (143, 34635), (168, 34512),

Gene: Lucky2013_70 Start: 46314, Stop: 45949, Start Num: 65

Candidate Starts for Lucky2013_70:

(Start: 65 @46314 has 113 MA's), (77, 46272), (120, 46176), (143, 46107), (174, 46068),

Gene: LunaBlu_89 Start: 51072, Stop: 51413, Start Num: 55

Candidate Starts for LunaBlu_89:

(Start: 55 @51072 has 1 MA's), (Start: 58 @51078 has 1 MA's), (Start: 73 @51120 has 2 MA's), (136, 51264), (144, 51297),

Gene: MadamMonkfish_42 Start: 34547, Stop: 34182, Start Num: 65

Candidate Starts for MadamMonkfish_42:

(44, 34586), (Start: 57 @34568 has 2 MA's), (Start: 65 @34547 has 113 MA's), (114, 34412), (121, 34388), (128, 34364), (143, 34319), (145, 34301),

Gene: Mahavrat_77 Start: 46587, Stop: 46994, Start Num: 65

Candidate Starts for Mahavrat_77:

(Start: 65 @46587 has 113 MA's), (68, 46599), (71, 46608), (114, 46725), (121, 46749), (128, 46773), (140, 46806), (158, 46878),

Gene: Marleymoo_66 Start: 48687, Stop: 48322, Start Num: 65

Candidate Starts for Marleymoo_66:

(32, 48771), (Start: 65 @48687 has 113 MA's), (77, 48645), (120, 48549), (143, 48480), (174, 48441),

Gene: Maroc7_58 Start: 41045, Stop: 40797, Start Num: 65

Candidate Starts for Maroc7_58:

(11, 41255), (12, 41246), (40, 41102), (Start: 41 @41099 has 2 MA's), (Start: 65 @41045 has 113 MA's), (93, 40997), (141, 40937),

Gene: Martik_82 Start: 51049, Stop: 51432, Start Num: 65

Candidate Starts for Martik_82:

(30, 50959), (36, 50974), (51, 51016), (Start: 65 @51049 has 113 MA's), (107, 51160), (112, 51169), (139, 51241), (141, 51253), (178, 51379),

Gene: Marvin_9 Start: 3241, Stop: 3600, Start Num: 65

Candidate Starts for Marvin_9:

(Start: 65 @3241 has 113 MA's), (68, 3253), (94, 3316), (105, 3331), (116, 3358), (119, 3364), (139, 3409), (141, 3421),

Gene: Maxxinista_45 Start: 35159, Stop: 34755, Start Num: 65

Candidate Starts for Maxxinista_45:

(Start: 65 @35159 has 113 MA's), (114, 35024), (121, 35000), (128, 34976), (143, 34931), (168, 34808),

Gene: MiaZeal_73 Start: 46970, Stop: 46605, Start Num: 65

Candidate Starts for MiaZeal_73:

(Start: 65 @46970 has 113 MA's), (77, 46928), (120, 46832), (143, 46763), (174, 46724),

Gene: MidnightRain_50 Start: 31295, Stop: 31621, Start Num: 50

Candidate Starts for MidnightRain_50:

(Start: 50 @31295 has 4 MA's), (Start: 57 @31304 has 2 MA's), (81, 31382), (91, 31397), (130, 31460), (166, 31604),

Gene: MilleFeuille_84 Start: 47737, Stop: 47426, Start Num: 56

Candidate Starts for MilleFeuille_84:

(Start: 56 @47737 has 1 MA's), (Start: 65 @47713 has 113 MA's), (77, 47671), (120, 47575), (141, 47509), (145, 47488), (170, 47482), (173, 47476),

Gene: Minerva_78 Start: 51991, Stop: 51626, Start Num: 65

Candidate Starts for Minerva_78:

(Start: 65 @51991 has 113 MA's), (77, 51949), (120, 51853), (143, 51784), (174, 51745),

Gene: MinionDave_78 Start: 48768, Stop: 49100, Start Num: 65

Candidate Starts for MinionDave_78:

(Start: 65 @48768 has 113 MA's), (77, 48810), (120, 48906), (140, 48963),

Gene: Miniwave_41 Start: 35246, Stop: 34860, Start Num: 65

Candidate Starts for Miniwave_41:

(Start: 62 @35261 has 1 MA's), (Start: 65 @35246 has 113 MA's), (114, 35111), (121, 35087), (128, 35063), (143, 35018), (152, 34979),

Gene: Moldemort_42 Start: 34776, Stop: 34411, Start Num: 65

Candidate Starts for Moldemort_42:

(44, 34815), (Start: 57 @34797 has 2 MA's), (Start: 65 @34776 has 113 MA's), (114, 34641), (121, 34617), (128, 34593), (143, 34548), (145, 34530),

Gene: Mosby_40 Start: 34707, Stop: 34342, Start Num: 65

Candidate Starts for Mosby_40:

(Start: 62 @34722 has 1 MA's), (Start: 65 @34707 has 113 MA's), (114, 34572), (121, 34548), (128, 34524), (145, 34461),

Gene: MrGordo_62 Start: 40946, Stop: 40590, Start Num: 65

Candidate Starts for MrGordo_62:

(Start: 65 @40946 has 113 MA's), (68, 40934), (114, 40808), (118, 40799), (121, 40784), (128, 40760), (139, 40730), (141, 40718),

Gene: Murphy_45 Start: 35671, Stop: 35267, Start Num: 65

Candidate Starts for Murphy_45:

(Start: 65 @35671 has 113 MA's), (114, 35536), (121, 35512), (128, 35488), (143, 35443), (168, 35320),

Gene: Nekros_71 Start: 48970, Stop: 48458, Start Num: 65

Candidate Starts for Nekros_71:

(Start: 65 @48970 has 113 MA's), (141, 48766), (151, 48724), (169, 48622), (180, 48478),

Gene: Nibley_66 Start: 45326, Stop: 44961, Start Num: 65

Candidate Starts for Nibley_66:

(Start: 41 @45374 has 2 MA's), (43, 45368), (Start: 65 @45326 has 113 MA's), (114, 45191), (121, 45167), (128, 45143), (145, 45080),

Gene: NihilNomen_73 Start: 50662, Stop: 50297, Start Num: 65

Candidate Starts for NihilNomen_73:

(Start: 65 @50662 has 113 MA's), (77, 50620), (120, 50524), (143, 50455), (174, 50416),

Gene: Nivrat_78 Start: 48916, Stop: 49254, Start Num: 65

Candidate Starts for Nivrat_78:

(48, 48877), (Start: 65 @48916 has 113 MA's), (68, 48928), (97, 49000), (101, 49009), (114, 49045), (140, 49117),

Gene: NoSleep_45 Start: 35431, Stop: 35027, Start Num: 65

Candidate Starts for NoSleep_45:

(Start: 65 @35431 has 113 MA's), (114, 35296), (121, 35272), (128, 35248), (143, 35203), (168, 35080),

Gene: Odette_71 Start: 49705, Stop: 49340, Start Num: 65

Candidate Starts for Odette_71:

(Start: 65 @49705 has 113 MA's), (77, 49663), (120, 49567), (143, 49498), (174, 49459),

Gene: OrionPax_43 Start: 35001, Stop: 34636, Start Num: 65

Candidate Starts for OrionPax_43:

(Start: 65 @35001 has 113 MA's), (114, 34866), (121, 34842), (128, 34818), (145, 34755),

Gene: Ovechkin_83 Start: 49406, Stop: 49663, Start Num: 65

Candidate Starts for Ovechkin_83:

(Start: 65 @49406 has 113 MA's), (88, 49466), (90, 49469), (101, 49502), (125, 49574), (143, 49616), (148, 49643),

Gene: PaddyBaddy_43 Start: 35008, Stop: 34643, Start Num: 65

Candidate Starts for PaddyBaddy_43:

(Start: 62 @35023 has 1 MA's), (Start: 65 @35008 has 113 MA's), (114, 34873), (121, 34849), (128, 34825), (143, 34780), (145, 34762),

Gene: Phoebus_75 Start: 51844, Stop: 51479, Start Num: 65

Candidate Starts for Phoebus_75:

(Start: 65 @51844 has 113 MA's), (77, 51802), (120, 51706), (143, 51637), (174, 51598),

Gene: Phrux_42 Start: 34994, Stop: 34629, Start Num: 65

Candidate Starts for Phrux_42:

(Start: 62 @35009 has 1 MA's), (Start: 65 @34994 has 113 MA's), (114, 34859), (121, 34835), (128, 34811), (143, 34766), (145, 34748),

Gene: Pinkcreek_11 Start: 4628, Stop: 5008, Start Num: 65

Candidate Starts for Pinkcreek_11:

(49, 4592), (Start: 65 @4628 has 113 MA's), (114, 4763), (121, 4787), (128, 4811), (140, 4844), (155, 4904), (156, 4907), (167, 4937),

Gene: Poise_10 Start: 3064, Stop: 3315, Start Num: 65

Candidate Starts for Poise_10:

(Start: 65 @3064 has 113 MA's), (93, 3112), (141, 3172), (143, 3175), (145, 3193),

Gene: Porcelain_72 Start: 46970, Stop: 46605, Start Num: 65

Candidate Starts for Porcelain_72:

(Start: 65 @46970 has 113 MA's), (77, 46928), (120, 46832), (143, 46763), (174, 46724),

Gene: Ptowny_43 Start: 34586, Stop: 34221, Start Num: 65

Candidate Starts for Ptowny_43:

(Start: 62 @34601 has 1 MA's), (Start: 65 @34586 has 113 MA's), (107, 34469), (114, 34451), (121, 34427), (128, 34403), (143, 34358), (145, 34340),

Gene: Pumpkin_45 Start: 35920, Stop: 35555, Start Num: 65

Candidate Starts for Pumpkin_45:

(Start: 65 @35920 has 113 MA's), (114, 35785), (121, 35761), (128, 35737), (145, 35674),

Gene: Qualification_42 Start: 35222, Stop: 34857, Start Num: 65

Candidate Starts for Qualification_42:

(Start: 65 @35222 has 113 MA's), (77, 35180), (120, 35084), (143, 35015), (174, 34976),

Gene: Rabinovich_16 Start: 6579, Stop: 6902, Start Num: 41

Candidate Starts for Rabinovich_16:

(Start: 41 @6579 has 2 MA's), (43, 6585), (Start: 65 @6627 has 113 MA's), (114, 6762), (121, 6786), (128, 6810), (143, 6855), (148, 6882),

Gene: RadFad_50 Start: 30882, Stop: 31274, Start Num: 50

Candidate Starts for RadFad_50:

(Start: 50 @30882 has 4 MA's), (Start: 57 @30891 has 2 MA's), (74, 30951), (95, 31005), (157, 31200), (161, 31218),

Gene: Raela_10 Start: 3468, Stop: 3719, Start Num: 65

Candidate Starts for Raela_10:

(Start: 65 @3468 has 113 MA's), (93, 3516), (141, 3576), (143, 3579), (145, 3597),

Gene: Redno2_69 Start: 47458, Stop: 47093, Start Num: 65

Candidate Starts for Redno2_69:

(Start: 65 @47458 has 113 MA's), (77, 47416), (120, 47320), (143, 47251), (174, 47212),

Gene: Rimmer_42 Start: 34931, Stop: 34563, Start Num: 65

Candidate Starts for Rimmer_42:

(Start: 65 @34931 has 113 MA's), (68, 34919), (114, 34793), (121, 34769), (128, 34745), (145, 34682),

Gene: RiverMonster_44 Start: 35447, Stop: 35043, Start Num: 65

Candidate Starts for RiverMonster_44:

(Start: 65 @35447 has 113 MA's), (114, 35312), (121, 35288), (128, 35264), (143, 35219), (168, 35096),

Gene: SG4_82 Start: 49730, Stop: 49978, Start Num: 65

Candidate Starts for SG4_82:

(Start: 65 @49730 has 113 MA's), (93, 49778), (141, 49838), (143, 49841), (145, 49859),

Gene: SG4_79 Start: 48739, Stop: 49107, Start Num: 65

Candidate Starts for SG4_79:

(51, 48706), (Start: 65 @48739 has 113 MA's), (114, 48877), (118, 48886), (121, 48901), (128, 48925), (145, 48988),

Gene: STLscum_68 Start: 42547, Stop: 42314, Start Num: 99

Candidate Starts for STLscum_68:

(Start: 99 @42547 has 2 MA's), (102, 42538), (132, 42475), (134, 42469), (140, 42451),

Gene: Schatzie_67 Start: 49452, Stop: 49087, Start Num: 65

Candidate Starts for Schatzie_67:

(Start: 65 @49452 has 113 MA's), (77, 49410), (120, 49314), (143, 49245), (174, 49206),

Gene: Shaboozey_65 Start: 44675, Stop: 44163, Start Num: 65

Candidate Starts for Shaboozey_65:

(Start: 65 @44675 has 113 MA's), (77, 44633), (141, 44471), (151, 44429), (169, 44327), (180, 44183),

Gene: ShereKhan_42 Start: 35964, Stop: 35599, Start Num: 65

Candidate Starts for ShereKhan_42:

(Start: 62 @35979 has 1 MA's), (Start: 65 @35964 has 113 MA's), (114, 35829), (121, 35805), (128, 35781), (143, 35736), (145, 35718),

Gene: ShowerHandel_83 Start: 48976, Stop: 49359, Start Num: 65

Candidate Starts for ShowerHandel_83:

(Start: 65 @48976 has 113 MA's), (67, 48985), (107, 49087), (112, 49096), (139, 49168), (141, 49180), (178, 49306),

Gene: Solon_59 Start: 40107, Stop: 39859, Start Num: 65

Candidate Starts for Solon_59:

(Start: 65 @40107 has 113 MA's), (93, 40059), (143, 39996), (145, 39978),

Gene: Squint_73 Start: 47089, Stop: 46724, Start Num: 65

Candidate Starts for Squint_73:

(Start: 65 @47089 has 113 MA's), (77, 47047), (120, 46951), (143, 46882), (174, 46843),

Gene: Stark_45 Start: 35450, Stop: 35046, Start Num: 65

Candidate Starts for Stark_45:

(Start: 62 @35465 has 1 MA's), (Start: 65 @35450 has 113 MA's), (114, 35315), (121, 35291), (128, 35267), (143, 35222), (168, 35099),

Gene: Stellammi_130 Start: 61513, Stop: 61869, Start Num: 27

Candidate Starts for Stellammi_130:

(6, 61351), (15, 61444), (16, 61447), (Start: 27 @61513 has 1 MA's), (33, 61522), (40, 61555), (92, 61687), (96, 61702), (103, 61723), (129, 61798), (137, 61822), (144, 61852),

Gene: Stellammi_46 Start: 31914, Stop: 31642, Start Num: 52

Candidate Starts for Stellammi_46:

(Start: 52 @31914 has 2 MA's), (59, 31902), (75, 31854), (92, 31818), (129, 31713), (137, 31689), (144, 31659),

Gene: Stewart25555_255 Start: 165522, Stop: 165815, Start Num: 52

Candidate Starts for Stewart25555_255:

(Start: 52 @165522 has 2 MA's), (54, 165525), (95, 165642), (105, 165672), (109, 165684), (149, 165801), (150, 165804),

Gene: StormChicken_43 Start: 35539, Stop: 35171, Start Num: 65

Candidate Starts for StormChicken_43:

(Start: 65 @35539 has 113 MA's), (68, 35527), (114, 35401), (121, 35377), (128, 35353), (145, 35290),

Gene: SuperGrey_83 Start: 51298, Stop: 51810, Start Num: 65

Candidate Starts for SuperGrey_83:

(Start: 65 @51298 has 113 MA's), (77, 51340), (141, 51502), (151, 51544), (169, 51646), (180, 51790),

Gene: Superphikiman_70 Start: 46180, Stop: 45815, Start Num: 65

Candidate Starts for Superphikiman_70:

(Start: 65 @46180 has 113 MA's), (77, 46138), (120, 46042), (143, 45973), (174, 45934),

Gene: TeamEdward_44 Start: 35536, Stop: 35168, Start Num: 65

Candidate Starts for TeamEdward_44:

(Start: 65 @35536 has 113 MA's), (68, 35524), (114, 35398), (121, 35374), (128, 35350), (145, 35287),

Gene: TeardropMSU_40 Start: 34933, Stop: 34568, Start Num: 65

Candidate Starts for TeardropMSU_40:

(Start: 62 @34948 has 1 MA's), (Start: 65 @34933 has 113 MA's), (114, 34798), (121, 34774), (128, 34750), (145, 34687),

Gene: Tesla_10 Start: 3055, Stop: 3306, Start Num: 65

Candidate Starts for Tesla_10:

(Start: 65 @3055 has 113 MA's), (93, 3103), (141, 3163), (143, 3166), (145, 3184),

Gene: ThreeRngTarjay_70 Start: 50738, Stop: 50373, Start Num: 65

Candidate Starts for ThreeRngTarjay_70:

(Start: 65 @50738 has 113 MA's), (77, 50696), (120, 50600), (143, 50531), (174, 50492),

Gene: Thresher_46 Start: 36685, Stop: 36281, Start Num: 65

Candidate Starts for Thresher_46:

(Start: 65 @36685 has 113 MA's), (114, 36550), (121, 36526), (128, 36502), (140, 36469), (168, 36334),

Gene: TinyDot_39 Start: 28787, Stop: 29068, Start Num: 69

Candidate Starts for TinyDot_39:

(22, 28661), (23, 28664), (26, 28673), (Start: 69 @28787 has 1 MA's), (140, 29000),

Gene: Tomaszewski_40 Start: 34800, Stop: 34435, Start Num: 65

Candidate Starts for Tomaszewski_40:

(Start: 62 @34815 has 1 MA's), (Start: 65 @34800 has 113 MA's), (114, 34665), (121, 34641), (128, 34617), (145, 34554),

Gene: Topiatin_88 Start: 50765, Stop: 51043, Start Num: 54

Candidate Starts for Topiatin_88:

(54, 50765), (94, 50876), (106, 50912), (124, 50969),

Gene: Toron_85 Start: 51169, Stop: 51453, Start Num: 60

Candidate Starts for Toron_85:

(Start: 50 @51154 has 4 MA's), (60, 51169), (80, 51232), (81, 51241), (140, 51409), (144, 51430), (145, 51439),

Gene: VRedHorse_87 Start: 48107, Stop: 48463, Start Num: 65

Candidate Starts for VRedHorse_87:

(Start: 65 @48107 has 113 MA's), (177, 48359),

Gene: Wachhund_79 Start: 46376, Stop: 46765, Start Num: 45

Candidate Starts for Wachhund_79:

(31, 46334), (34, 46337), (Start: 45 @46376 has 2 MA's), (51, 46388), (74, 46454), (100, 46517), (110, 46541), (139, 46625), (141, 46637),

Gene: Wanda_76 Start: 50200, Stop: 49835, Start Num: 65

Candidate Starts for Wanda_76:

(Start: 65 @50200 has 113 MA's), (77, 50158), (120, 50062), (143, 49993), (174, 49954),

Gene: Xandras_43 Start: 35049, Stop: 34684, Start Num: 65

Candidate Starts for Xandras_43:

(Start: 65 @35049 has 113 MA's), (114, 34914), (121, 34890), (128, 34866), (145, 34803),

Gene: Yoshi_97 Start: 50855, Stop: 51199, Start Num: 65

Candidate Starts for Yoshi_97:

(17, 50720), (21, 50744), (38, 50801), (43, 50813), (49, 50822), (Start: 65 @50855 has 113 MA's),
(175, 51101),

Gene: Youngblood_43 Start: 35542, Stop: 35174, Start Num: 65

Candidate Starts for Youngblood_43:

(Start: 65 @35542 has 113 MA's), (68, 35530), (114, 35404), (121, 35380), (128, 35356), (145, 35293),

Gene: Zapner_89 Start: 47534, Stop: 47902, Start Num: 65

Candidate Starts for Zapner_89:

(49, 47498), (Start: 65 @47534 has 113 MA's), (114, 47669), (121, 47693), (128, 47717), (143, 47762),
(145, 47780), (164, 47828),

Gene: Zelink_70 Start: 51051, Stop: 50686, Start Num: 65

Candidate Starts for Zelink_70:

(Start: 65 @51051 has 113 MA's), (77, 51009), (120, 50913), (143, 50844), (174, 50805),

Gene: Zucker_35 Start: 27460, Stop: 27846, Start Num: 58

Candidate Starts for Zucker_35:

(Start: 58 @27460 has 1 MA's), (150, 27733), (154, 27748), (162, 27787),