

Pham 216119



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 216119 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216119 has 74 members, 30 are drafts.

Phages represented in each track:

- Track 1 : AWGoat_43
- Track 2 : SilentRX_47
- Track 3 : Salk_65, Stayer_65, Linda_65, BronxBay_65, StarLord_65, Michelle_65, Shiba_64, DoctorPepper_64, MrAaronian_65, Sloopyjoe_65, Djungelskog_64
- Track 4 : Egad_65, Raunak_66, HerbBucket_63, Boog_65, ProfFrink_65
- Track 5 : Sporto_64
- Track 6 : RustyBoy_67
- Track 7 : PowellDog_68
- Track 8 : Natasha_66
- Track 9 : Hillester_93, RadFad_94
- Track 10 : AbbyDaisy_95
- Track 11 : Tiff81_84
- Track 12 : Seahorse_95
- Track 13 : EvePickles_90
- Track 14 : MidnightRain_96
- Track 15 : Bhageatrice_95, YoungHarleezy_88
- Track 16 : Sakai_86, Auxilium_87, Gorpy_87
- Track 17 : BenchScraper_89, Richie_92
- Track 18 : BillyTP_90
- Track 19 : Aikyam_87
- Track 20 : CookieBear_86
- Track 21 : JellyBread_85
- Track 22 : Lawnathon_91
- Track 23 : Faja_90
- Track 24 : Vopal_90, Raphaella_89
- Track 25 : ThayneTheZag_96
- Track 26 : Sashimi_92
- Track 27 : MaterMagnus_88
- Track 28 : MUWow_90
- Track 29 : Persistence_84
- Track 30 : Globfish_88
- Track 31 : Isolde_90, Windest_93
- Track 32 : Anekin_89
- Track 33 : SpicyFrank_91
- Track 34 : Hestia_83
- Track 35 : Shukran_86
- Track 36 : Raqqa_93

- Track 37 : MissAmericana_13
- Track 38 : Alatato_67
- Track 39 : Pigu_66
- Track 40 : BrayBeast_64
- Track 41 : Shoya_64
- Track 42 : Sarge_61
- Track 43 : Maruru_67, Sonali_66
- Track 44 : Sunshine23_67
- Track 45 : Qui_119, Elver_118, Paella_119
- Track 46 : Gandionco_116
- Track 47 : BlackSpider_80
- Track 48 : Bauer_86
- Track 49 : Zucker_89, Phrank15_95

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

The start number called the most often in the published annotations is 19, it was called in 26 of the 44 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AbbyDaisy_95, Aikyam_87, Alatato_67, Anekin_89, Auxilium_87, BenchScraper_89, Bhageatrice_95, BillyTP_90, BrayBeast_64, CookieBear_86, Elver_118, EvePickles_90, Faja_90, Gandionco_116, Globfish_88, Gorpy_87, Hestia_83, Hillester_93, Isolde_90, Lawnathon_91, MUWow_90, MaterMagnus_88, MidnightRain_96, MissAmericana_13, Paella_119, Persistence_84, Phrank15_95, Qui_119, RadFad_94, Raphaella_89, Raqqa_93, Richie_92, Sakai_86, Sarge_61, Sashimi_92, Seahorse_95, Shoya_64, Shukran_86, SpicyFrank_91, ThayneTheZag_96, Tiff81_84, Vopal_90, Windest_93, YoungHarleezy_88, Zucker_89,

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

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

- AWGoat_43, Bauer_86, BlackSpider_80, Boog_65, BronxBay_65, Djungelskog_64, DoctorPepper_64, Egad_65, HerbBucket_63, JellyBread_85, Linda_65, Maruru_67, Michelle_65, MrAaronian_65, Natasha_66, Pigu_66, PowellDog_68, ProfFrink_65, Raunak_66, RustyBoy_67, Salk_65, Shiba_64, SilentRX_47, Sloopyjoe_65, Sonali_66, Sporto_64, StarLord_65, Stayer_65, Sunshine23_67,

Summary by start number:

Start 7:

- Found in 2 of 74 (2.7%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BlackSpider_80 (FN), JellyBread_85 (AY),

Start 15:

- Found in 3 of 74 (4.1%) of genes in pham
- Manual Annotations of this start: 1 of 44
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Maruru_67 (FG), Sonali_66 (FG), Sunshine23_67 (FG),

Start 17:

- Found in 1 of 74 (1.4%) of genes in pham
- Manual Annotations of this start: 1 of 44
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AWGoat_43 (AP4),

Start 19:

- Found in 45 of 74 (60.8%) of genes in pham
- Manual Annotations of this start: 26 of 44
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AbbyDaisy_95 (AY), Aikyam_87 (AY), Alata_67 (FB), Aekin_89 (AY), Auxilium_87 (AY), BenchScraper_89 (AY), Bhageatrice_95 (AY), BillyTP_90 (AY), BrayBeast_64 (FB), CookieBear_86 (AY), Elver_118 (FK), EvePickles_90 (AY), Faja_90 (AY), Gandionco_116 (FK), Globfish_88 (AY), Gorpy_87 (AY), Hestia_83 (AY), Hillester_93 (AY), Isolde_90 (AY), Lawnathon_91 (AY), MUWow_90 (AY), MaterMagnus_88 (AY), MidnightRain_96 (AY), MissAmericana_13 (EM2), Paella_119 (FK), Persistence_84 (AY), Phrank15_95 (AY), Qui_119 (FK), RadFad_94 (AY), Raphaella_89 (AY), Raqqa_93 (AY), Richie_92 (AY), Sakai_86 (AY), Sarge_61 (FB), Sashimi_92 (AY), Seahorse_95 (AY), Shoya_64 (FB), Shukran_86 (AY), SpicyFrank_91 (AY), ThayneTheZag_96 (AY), Tiff81_84 (AY), Vopal_90 (AY), Windest_93 (AY), YoungHarleezy_88 (AY), Zucker_89 (FN),

Start 20:

- Found in 1 of 74 (1.4%) of genes in pham
- Manual Annotations of this start: 1 of 44
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SilentRX_47 (AP4),

Start 21:

- Found in 7 of 74 (9.5%) of genes in pham
- Manual Annotations of this start: 1 of 44
- Called 28.6% of time when present
- Phage (with cluster) where this start called: Bauer_86 (FN), Pigu_66 (FB),

Start 22:

- Found in 20 of 74 (27.0%) of genes in pham
- Manual Annotations of this start: 14 of 44
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Boog_65 (AW), BronxBay_65 (AW), Djungelskog_64 (AW), DoctorPepper_64 (AW), Egad_65 (AW), HerbBucket_63 (AW), Linda_65 (AW), Michelle_65 (AW), MrAaronian_65 (AW), Natasha_66 (AW), PowellDog_68 (AW), ProfFrink_65 (AW), Raunak_66 (AW), RustyBoy_67 (AW), Salk_65 (AW), Shiba_64 (AW), Sloopyjoe_65 (AW), Sporto_64 (AW), StarLord_65 (AW), Stayer_65 (AW),

Summary by clusters:

There are 8 clusters represented in this pham: FG, AP4, FB, AW, EM2, AY, FK, FN,

Info for manual annotations of cluster AP4:

- Start number 17 was manually annotated 1 time for cluster AP4.
- Start number 20 was manually annotated 1 time for cluster AP4.

Info for manual annotations of cluster AW:

- Start number 22 was manually annotated 14 times for cluster AW.

Info for manual annotations of cluster AY:

- Start number 19 was manually annotated 19 times for cluster AY.

Info for manual annotations of cluster EM2:

- Start number 19 was manually annotated 1 time for cluster EM2.

Info for manual annotations of cluster FB:

- Start number 19 was manually annotated 3 times for cluster FB.

Info for manual annotations of cluster FG:

- Start number 15 was manually annotated 1 time for cluster FG.

Info for manual annotations of cluster FK:

- Start number 19 was manually annotated 2 times for cluster FK.

Info for manual annotations of cluster FN:

- Start number 19 was manually annotated 1 time for cluster FN.
- Start number 21 was manually annotated 1 time for cluster FN.

Gene Information:

Gene: AWGoat_43 Start: 36435, Stop: 36184, Start Num: 17

Candidate Starts for AWGoat_43:

(Start: 17 @36435 has 1 MA's), (24, 36378), (30, 36336), (37, 36270),

Gene: AbbyDaisy_95 Start: 52716, Stop: 52943, Start Num: 19

Candidate Starts for AbbyDaisy_95:

(Start: 19 @52716 has 26 MA's), (26, 52788), (30, 52809), (37, 52875), (38, 52878), (40, 52896),

Gene: Aikyam_87 Start: 47697, Stop: 47942, Start Num: 19

Candidate Starts for Aikyam_87:

(Start: 19 @47697 has 26 MA's), (24, 47739), (32, 47802), (35, 47826), (41, 47877),

Gene: Alatato_67 Start: 36428, Stop: 36655, Start Num: 19

Candidate Starts for Alatato_67:

(1, 36107), (Start: 19 @36428 has 26 MA's), (26, 36500), (30, 36521), (37, 36587), (38, 36590), (40, 36608),

Gene: Anekin_89 Start: 49928, Stop: 50155, Start Num: 19

Candidate Starts for Anekin_89:

(Start: 19 @49928 has 26 MA's), (Start: 21 @49934 has 1 MA's), (26, 50000), (30, 50021), (37, 50087), (38, 50090),

Gene: Auxilium_87 Start: 46996, Stop: 47223, Start Num: 19

Candidate Starts for Auxilium_87:

(Start: 19 @46996 has 26 MA's), (26, 47068), (30, 47089), (37, 47155), (38, 47158),

Gene: Bauer_86 Start: 46271, Stop: 46492, Start Num: 21

Candidate Starts for Bauer_86:

(2, 45926), (9, 46157), (12, 46205), (Start: 21 @46271 has 1 MA's), (26, 46337), (30, 46358), (37, 46424), (38, 46427), (40, 46445), (42, 46475),

Gene: BenchScraper_89 Start: 47947, Stop: 48174, Start Num: 19

Candidate Starts for BenchScraper_89:

(Start: 19 @47947 has 26 MA's), (26, 48019), (30, 48040), (37, 48106), (38, 48109), (42, 48157),

Gene: Bhageatrice_95 Start: 52222, Stop: 52449, Start Num: 19

Candidate Starts for Bhageatrice_95:

(Start: 19 @52222 has 26 MA's), (Start: 21 @52228 has 1 MA's), (24, 52273), (26, 52294), (30, 52315), (37, 52381), (38, 52384),

Gene: BillyTP_90 Start: 50050, Stop: 50289, Start Num: 19

Candidate Starts for BillyTP_90:

(Start: 19 @50050 has 26 MA's), (24, 50092), (32, 50155), (41, 50230),

Gene: BlackSpider_80 Start: 47304, Stop: 47531, Start Num: 7

Candidate Starts for BlackSpider_80:

(7, 47304), (26, 47376), (30, 47397), (37, 47463), (38, 47466), (42, 47514),

Gene: Boog_65 Start: 42243, Stop: 42494, Start Num: 22

Candidate Starts for Boog_65:

(Start: 22 @42243 has 14 MA's), (31, 42330), (34, 42363), (37, 42387), (38, 42390),

Gene: BrayBeast_64 Start: 36058, Stop: 36285, Start Num: 19

Candidate Starts for BrayBeast_64:

(5, 35845), (Start: 19 @36058 has 26 MA's), (26, 36130), (33, 36187), (38, 36220),

Gene: BronxBay_65 Start: 42499, Stop: 42750, Start Num: 22

Candidate Starts for BronxBay_65:

(Start: 22 @42499 has 14 MA's), (31, 42586), (34, 42619), (37, 42643), (38, 42646), (45, 42727),

Gene: CookieBear_86 Start: 49258, Stop: 49497, Start Num: 19

Candidate Starts for CookieBear_86:

(Start: 19 @49258 has 26 MA's), (24, 49300), (32, 49363), (41, 49438),

Gene: Djungelskog_64 Start: 42498, Stop: 42749, Start Num: 22

Candidate Starts for Djungelskog_64:

(Start: 22 @42498 has 14 MA's), (31, 42585), (34, 42618), (37, 42642), (38, 42645), (45, 42726),

Gene: DoctorPepper_64 Start: 42203, Stop: 42454, Start Num: 22

Candidate Starts for DoctorPepper_64:

(Start: 22 @42203 has 14 MA's), (31, 42290), (34, 42323), (37, 42347), (38, 42350), (45, 42431),

Gene: Egad_65 Start: 42494, Stop: 42745, Start Num: 22

Candidate Starts for Egad_65:

(Start: 22 @42494 has 14 MA's), (31, 42581), (34, 42614), (37, 42638), (38, 42641),

Gene: Elver_118 Start: 65771, Stop: 66007, Start Num: 19

Candidate Starts for Elver_118:

(18, 65768), (Start: 19 @65771 has 26 MA's), (25, 65837), (36, 65921), (38, 65930), (39, 65933), (40, 65948),

Gene: EvePickles_90 Start: 50663, Stop: 50890, Start Num: 19

Candidate Starts for EvePickles_90:

(Start: 19 @50663 has 26 MA's), (24, 50714), (26, 50735), (30, 50756), (37, 50822), (38, 50825), (40, 50843),

Gene: Faja_90 Start: 49924, Stop: 50151, Start Num: 19

Candidate Starts for Faja_90:

(3, 49681), (Start: 19 @49924 has 26 MA's), (24, 49975), (26, 49996), (37, 50083), (38, 50086), (40, 50104),

Gene: Gandionco_116 Start: 64583, Stop: 64819, Start Num: 19

Candidate Starts for Gandionco_116:

(13, 64550), (18, 64580), (Start: 19 @64583 has 26 MA's), (25, 64649), (36, 64733), (38, 64742), (39, 64745), (40, 64760),

Gene: Globfish_88 Start: 48667, Stop: 48894, Start Num: 19

Candidate Starts for Globfish_88:

(Start: 19 @48667 has 26 MA's), (26, 48739), (37, 48826), (38, 48829), (40, 48847),

Gene: Gorpy_87 Start: 50675, Stop: 50902, Start Num: 19

Candidate Starts for Gorpy_87:

(Start: 19 @50675 has 26 MA's), (26, 50747), (30, 50768), (37, 50834), (38, 50837),

Gene: HerbBucket_63 Start: 42225, Stop: 42476, Start Num: 22

Candidate Starts for HerbBucket_63:

(Start: 22 @42225 has 14 MA's), (31, 42312), (34, 42345), (37, 42369), (38, 42372),

Gene: Hestia_83 Start: 47282, Stop: 47509, Start Num: 19

Candidate Starts for Hestia_83:

(Start: 19 @47282 has 26 MA's), (26, 47354), (30, 47375), (37, 47441), (38, 47444),

Gene: Hillester_93 Start: 49669, Stop: 49896, Start Num: 19

Candidate Starts for Hillester_93:

(Start: 19 @49669 has 26 MA's), (26, 49741), (30, 49762), (37, 49828), (38, 49831), (40, 49849), (42, 49879),

Gene: Isolde_90 Start: 50517, Stop: 50744, Start Num: 19

Candidate Starts for Isolde_90:

(Start: 19 @50517 has 26 MA's), (Start: 21 @50523 has 1 MA's), (24, 50568), (26, 50589), (30, 50610), (37, 50676), (38, 50679), (40, 50697),

Gene: JellyBread_85 Start: 49663, Stop: 49890, Start Num: 7

Candidate Starts for JellyBread_85:

(7, 49663), (26, 49735), (30, 49756), (37, 49822), (38, 49825), (40, 49843), (42, 49873),

Gene: Lawnathon_91 Start: 50019, Stop: 50246, Start Num: 19

Candidate Starts for Lawnathon_91:

(Start: 19 @50019 has 26 MA's), (26, 50091), (30, 50112), (37, 50178), (38, 50181), (40, 50199), (42, 50229), (43, 50238),

Gene: Linda_65 Start: 42496, Stop: 42747, Start Num: 22

Candidate Starts for Linda_65:

(Start: 22 @42496 has 14 MA's), (31, 42583), (34, 42616), (37, 42640), (38, 42643), (45, 42724),

Gene: MUWow_90 Start: 50713, Stop: 50940, Start Num: 19

Candidate Starts for MUWow_90:

(Start: 19 @50713 has 26 MA's), (26, 50785), (29, 50803), (31, 50815), (38, 50875), (41, 50902),

Gene: Maruru_67 Start: 45050, Stop: 45310, Start Num: 15

Candidate Starts for Maruru_67:

(4, 44834), (Start: 15 @45050 has 1 MA's), (26, 45140), (28, 45152), (38, 45230), (40, 45248),

Gene: MaterMagnus_88 Start: 49961, Stop: 50188, Start Num: 19

Candidate Starts for MaterMagnus_88:

(Start: 19 @49961 has 26 MA's), (26, 50033), (30, 50054), (37, 50120), (38, 50123),

Gene: Michelle_65 Start: 42498, Stop: 42749, Start Num: 22

Candidate Starts for Michelle_65:

(Start: 22 @42498 has 14 MA's), (31, 42585), (34, 42618), (37, 42642), (38, 42645), (45, 42726),

Gene: MidnightRain_96 Start: 51168, Stop: 51395, Start Num: 19

Candidate Starts for MidnightRain_96:

(Start: 19 @51168 has 26 MA's), (24, 51219), (26, 51240), (30, 51261), (37, 51327), (38, 51330), (40, 51348),

Gene: MissAmericana_13 Start: 9042, Stop: 8782, Start Num: 19

Candidate Starts for MissAmericana_13:

(14, 9063), (Start: 19 @9042 has 26 MA's), (32, 8925), (41, 8850),

Gene: MrAaronian_65 Start: 42498, Stop: 42749, Start Num: 22

Candidate Starts for MrAaronian_65:

(Start: 22 @42498 has 14 MA's), (31, 42585), (34, 42618), (37, 42642), (38, 42645), (45, 42726),

Gene: Natasha_66 Start: 42448, Stop: 42690, Start Num: 22

Candidate Starts for Natasha_66:

(Start: 22 @42448 has 14 MA's), (36, 42586), (37, 42592), (38, 42595), (44, 42667),

Gene: Paella_119 Start: 66359, Stop: 66595, Start Num: 19

Candidate Starts for Paella_119:

(18, 66356), (Start: 19 @66359 has 26 MA's), (25, 66425), (36, 66509), (38, 66518), (39, 66521), (40, 66536),

Gene: Persistence_84 Start: 47327, Stop: 47554, Start Num: 19

Candidate Starts for Persistence_84:

(Start: 19 @47327 has 26 MA's), (24, 47378), (26, 47399), (30, 47420), (37, 47486), (38, 47489),

Gene: Phrank15_95 Start: 50347, Stop: 50574, Start Num: 19

Candidate Starts for Phrank15_95:

(Start: 19 @50347 has 26 MA's), (26, 50419), (30, 50440), (37, 50506), (38, 50509),

Gene: Pigu_66 Start: 34831, Stop: 35052, Start Num: 21
Candidate Starts for Pigu_66:
(Start: 21 @34831 has 1 MA's), (26, 34897), (33, 34954), (38, 34987),

Gene: Powelldog_68 Start: 42912, Stop: 43187, Start Num: 22
Candidate Starts for Powelldog_68:
(6, 42711), (Start: 22 @42912 has 14 MA's), (23, 42924), (31, 42999), (38, 43059), (46, 43161),

Gene: ProfFrink_65 Start: 42493, Stop: 42744, Start Num: 22
Candidate Starts for ProfFrink_65:
(Start: 22 @42493 has 14 MA's), (31, 42580), (34, 42613), (37, 42637), (38, 42640),

Gene: Qui_119 Start: 66359, Stop: 66595, Start Num: 19
Candidate Starts for Qui_119:
(18, 66356), (Start: 19 @66359 has 26 MA's), (25, 66425), (36, 66509), (38, 66518), (39, 66521), (40, 66536),

Gene: RadFad_94 Start: 49669, Stop: 49896, Start Num: 19
Candidate Starts for RadFad_94:
(Start: 19 @49669 has 26 MA's), (26, 49741), (30, 49762), (37, 49828), (38, 49831), (40, 49849), (42, 49879),

Gene: Raphaella_89 Start: 48624, Stop: 48887, Start Num: 19
Candidate Starts for Raphaella_89:
(Start: 19 @48624 has 26 MA's), (27, 48705), (28, 48711),

Gene: Raqqa_93 Start: 50720, Stop: 50947, Start Num: 19
Candidate Starts for Raqqa_93:
(10, 50645), (11, 50678), (Start: 19 @50720 has 26 MA's), (26, 50792), (37, 50879), (38, 50882), (40, 50900),

Gene: Raunak_66 Start: 42154, Stop: 42405, Start Num: 22
Candidate Starts for Raunak_66:
(Start: 22 @42154 has 14 MA's), (31, 42241), (34, 42274), (37, 42298), (38, 42301),

Gene: Richie_92 Start: 50519, Stop: 50746, Start Num: 19
Candidate Starts for Richie_92:
(Start: 19 @50519 has 26 MA's), (26, 50591), (30, 50612), (37, 50678), (38, 50681), (42, 50729),

Gene: RustyBoy_67 Start: 42647, Stop: 42889, Start Num: 22
Candidate Starts for RustyBoy_67:
(6, 42443), (8, 42479), (Start: 22 @42647 has 14 MA's), (36, 42785), (37, 42791), (38, 42794), (44, 42866),

Gene: Sakai_86 Start: 49386, Stop: 49613, Start Num: 19
Candidate Starts for Sakai_86:
(Start: 19 @49386 has 26 MA's), (26, 49458), (30, 49479), (37, 49545), (38, 49548),

Gene: Salk_65 Start: 42496, Stop: 42747, Start Num: 22
Candidate Starts for Salk_65:
(Start: 22 @42496 has 14 MA's), (31, 42583), (34, 42616), (37, 42640), (38, 42643), (45, 42724),

Gene: Sarge_61 Start: 33816, Stop: 34043, Start Num: 19
Candidate Starts for Sarge_61:
(Start: 19 @33816 has 26 MA's), (24, 33867), (26, 33888), (33, 33945), (38, 33978),

Gene: Sashimi_92 Start: 49657, Stop: 49884, Start Num: 19
Candidate Starts for Sashimi_92:
(16, 49651), (Start: 19 @49657 has 26 MA's), (24, 49708), (26, 49729), (30, 49750), (37, 49816), (38, 49819),

Gene: Seahorse_95 Start: 54032, Stop: 54259, Start Num: 19
Candidate Starts for Seahorse_95:
(Start: 19 @54032 has 26 MA's), (26, 54104), (30, 54125), (37, 54191), (38, 54194), (42, 54242),

Gene: Shiba_64 Start: 42154, Stop: 42405, Start Num: 22
Candidate Starts for Shiba_64:
(Start: 22 @42154 has 14 MA's), (31, 42241), (34, 42274), (37, 42298), (38, 42301), (45, 42382),

Gene: Shoya_64 Start: 35887, Stop: 36126, Start Num: 19
Candidate Starts for Shoya_64:
(Start: 19 @35887 has 26 MA's), (32, 35992), (36, 36031), (41, 36067),

Gene: Shukran_86 Start: 47862, Stop: 48089, Start Num: 19
Candidate Starts for Shukran_86:
(Start: 19 @47862 has 26 MA's), (26, 47934), (28, 47946), (37, 48021), (38, 48024),

Gene: SilentRX_47 Start: 38442, Stop: 38200, Start Num: 20
Candidate Starts for SilentRX_47:
(Start: 20 @38442 has 1 MA's), (24, 38391), (28, 38358), (37, 38283),

Gene: Sloopyjoe_65 Start: 42500, Stop: 42751, Start Num: 22
Candidate Starts for Sloopyjoe_65:
(Start: 22 @42500 has 14 MA's), (31, 42587), (34, 42620), (37, 42644), (38, 42647), (45, 42728),

Gene: Sonali_66 Start: 45518, Stop: 45778, Start Num: 15
Candidate Starts for Sonali_66:
(4, 45302), (Start: 15 @45518 has 1 MA's), (26, 45608), (28, 45620), (38, 45698), (40, 45716),

Gene: SpicyFrank_91 Start: 49438, Stop: 49665, Start Num: 19
Candidate Starts for SpicyFrank_91:
(Start: 19 @49438 has 26 MA's), (26, 49510), (37, 49597), (38, 49600),

Gene: Sporto_64 Start: 43615, Stop: 43866, Start Num: 22
Candidate Starts for Sporto_64:
(Start: 22 @43615 has 14 MA's), (37, 43759), (38, 43762), (45, 43843),

Gene: StarLord_65 Start: 42493, Stop: 42744, Start Num: 22
Candidate Starts for StarLord_65:
(Start: 22 @42493 has 14 MA's), (31, 42580), (34, 42613), (37, 42637), (38, 42640), (45, 42721),

Gene: Stayer_65 Start: 42496, Stop: 42747, Start Num: 22
Candidate Starts for Stayer_65:
(Start: 22 @42496 has 14 MA's), (31, 42583), (34, 42616), (37, 42640), (38, 42643), (45, 42724),

Gene: Sunshine23_67 Start: 45169, Stop: 45429, Start Num: 15

Candidate Starts for Sunshine23_67:

(Start: 15 @45169 has 1 MA's), (26, 45259), (28, 45271), (38, 45349), (40, 45367),

Gene: ThayneTheZag_96 Start: 51075, Stop: 51302, Start Num: 19

Candidate Starts for ThayneTheZag_96:

(Start: 19 @51075 has 26 MA's), (24, 51126), (26, 51147), (37, 51234), (38, 51237), (40, 51255), (42, 51285),

Gene: Tiff81_84 Start: 47744, Stop: 48007, Start Num: 19

Candidate Starts for Tiff81_84:

(Start: 19 @47744 has 26 MA's), (27, 47825), (28, 47831),

Gene: Vopal_90 Start: 50690, Stop: 50953, Start Num: 19

Candidate Starts for Vopal_90:

(Start: 19 @50690 has 26 MA's), (27, 50771), (28, 50777),

Gene: Windest_93 Start: 48912, Stop: 49139, Start Num: 19

Candidate Starts for Windest_93:

(Start: 19 @48912 has 26 MA's), (Start: 21 @48918 has 1 MA's), (24, 48963), (26, 48984), (30, 49005), (37, 49071), (38, 49074), (40, 49092),

Gene: YoungHarleezy_88 Start: 50145, Stop: 50372, Start Num: 19

Candidate Starts for YoungHarleezy_88:

(Start: 19 @50145 has 26 MA's), (Start: 21 @50151 has 1 MA's), (24, 50196), (26, 50217), (30, 50238), (37, 50304), (38, 50307),

Gene: Zucker_89 Start: 50629, Stop: 50856, Start Num: 19

Candidate Starts for Zucker_89:

(Start: 19 @50629 has 26 MA's), (26, 50701), (30, 50722), (37, 50788), (38, 50791),