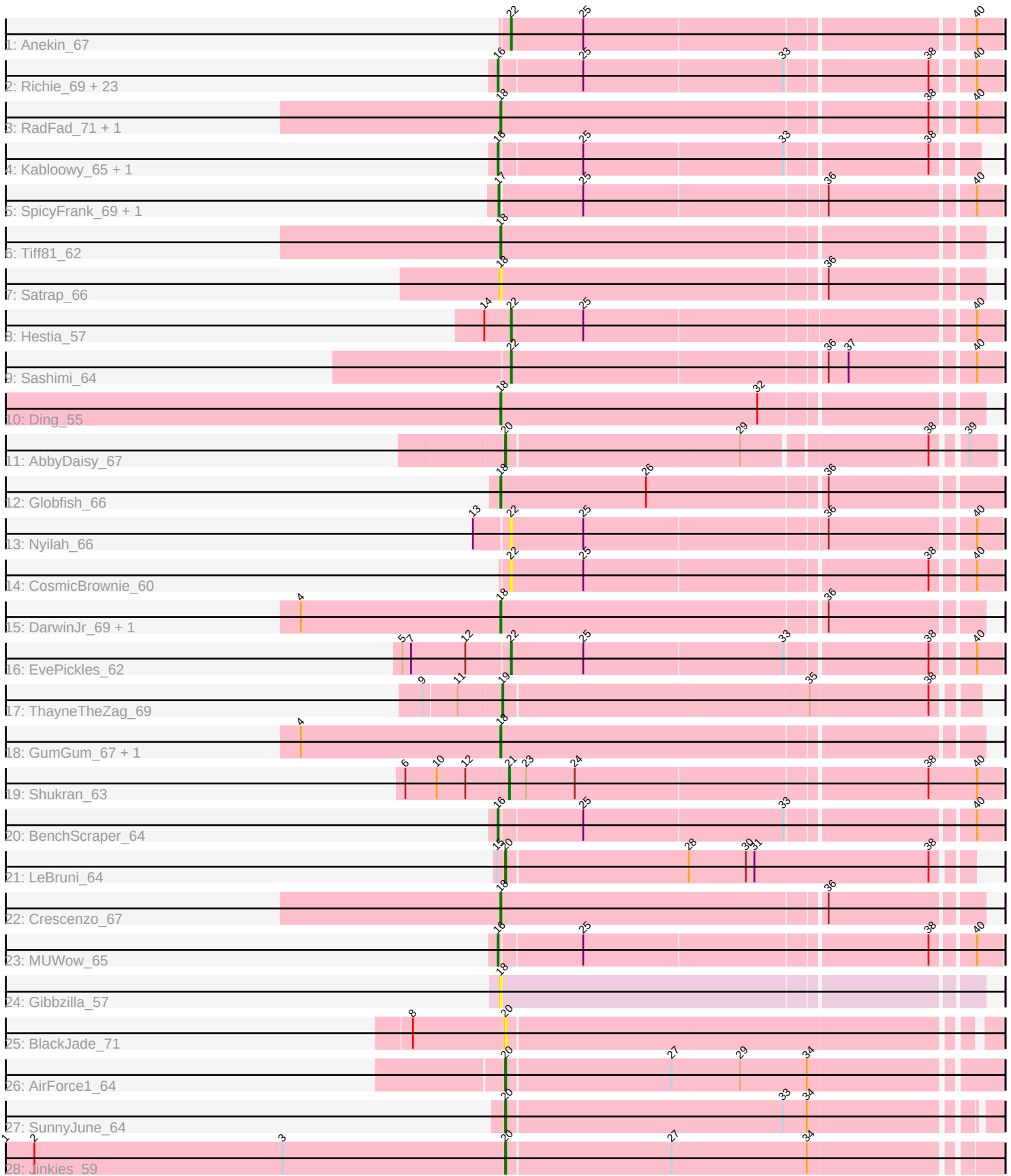


Pham 323313



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 323313 Report

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

Pham number 323313 has 56 members, 11 are drafts.

Phages represented in each track:

- Track 1 : Anekin_67
- Track 2 : Richie_69, Phrank15_66, Faja_65, JellyBread_62, YoungHarleezy_65, CookieBear_65, Sporco_68, MurphyJoseph_62, Gorpy_65, SonDevVon_71, MidnightRain_69, Isolde_64, BasketStar_67, Lawnathon_66, MaterMagnus_66, AdaS_61, Windest_67, Raphaella_64, Aikyam_65, Vopal_68, Mapleville_61, BlackSpider_53, Sakai_64, BillyTP_67
- Track 3 : RadFad_71, Hillester_71
- Track 4 : Kabloowy_65, Bauer_60
- Track 5 : SpicyFrank_69, Cassini_60
- Track 6 : Tiff81_62
- Track 7 : Satrap_66
- Track 8 : Hestia_57
- Track 9 : Sashimi_64
- Track 10 : Ding_55
- Track 11 : AbbyDaisy_67
- Track 12 : Globfish_66
- Track 13 : Nyilah_66
- Track 14 : CosmicBrownie_60
- Track 15 : DarwinJr_69, Seahorse_69
- Track 16 : EvePickles_62
- Track 17 : ThayneTheZag_69
- Track 18 : GumGum_67, Bhageatrice_69
- Track 19 : Shukran_63
- Track 20 : BenchScraper_64
- Track 21 : LeBruni_64
- Track 22 : Crescenzo_67
- Track 23 : MUWow_65
- Track 24 : Gibbzilla_57
- Track 25 : BlackJade_71
- Track 26 : AirForce1_64
- Track 27 : SunnyJune_64
- Track 28 : Jinkies_59

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

The start number called the most often in the published annotations is 16, it was called in 24 of the 45 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AdaS_61, Aikyam_65, BasketStar_67, Bauer_60, BenchScraper_64, BillyTP_67, BlackSpider_53, CookieBear_65, Faja_65, Gorpy_65, Isolde_64, JellyBread_62, Kabloowy_65, Lawnathon_66, MUWow_65, Mapleville_61, MaterMagnus_66, MidnightRain_69, MurphyJoseph_62, Phrank15_66, Raphaella_64, Richie_69, Sakai_64, SonDevVon_71, Sporco_68, Vopal_68, Windest_67, YoungHarleezy_65,

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

-

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

- AbbyDaisy_67, AirForce1_64, Anekin_67, Bhageatrice_69, BlackJade_71, Cassini_60, CosmicBrownie_60, Crescenzo_67, DarwinJr_69, Ding_55, EvePickles_62, Gibbzilla_57, Globfish_66, GumGum_67, Hestia_57, Hillester_71, Jinkies_59, LeBruni_64, Nyilah_66, RadFad_71, Sashimi_64, Satrap_66, Seahorse_69, Shukran_63, SpicyFrank_69, SunnyJune_64, ThayneTheZag_69, Tiff81_62,

Summary by start number:

Start 16:

- Found in 28 of 56 (50.0%) of genes in pham
- Manual Annotations of this start: 24 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AdaS_61 (AY), Aikyam_65 (AY), BasketStar_67 (AY), Bauer_60 (FN), BenchScraper_64 (AY), BillyTP_67 (AY), BlackSpider_53 (FN), CookieBear_65 (AY), Faja_65 (AY), Gorpy_65 (AY), Isolde_64 (AY), JellyBread_62 (AY), Kabloowy_65 (AY), Lawnathon_66 (AY), MUWow_65 (AY), Mapleville_61 (AY), MaterMagnus_66 (AY), MidnightRain_69 (AY), MurphyJoseph_62 (AY), Phrank15_66 (AY), Raphaella_64 (AY), Richie_69 (AY), Sakai_64 (AY), SonDevVon_71 (AY), Sporco_68 (AY), Vopal_68 (AY), Windest_67 (AY), YoungHarleezy_65 (AY),

Start 17:

- Found in 2 of 56 (3.6%) of genes in pham
- Manual Annotations of this start: 1 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cassini_60 (FN), SpicyFrank_69 (AY),

Start 18:

- Found in 12 of 56 (21.4%) of genes in pham
- Manual Annotations of this start: 9 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bhageatrice_69 (AY), Crescenzo_67 (AY), DarwinJr_69 (AY), Ding_55 (AY), Gibbzilla_57 (FB), Globfish_66 (AY), GumGum_67 (AY), Hillester_71 (AY), RadFad_71 (AY), Satrap_66 (AY), Seahorse_69 (AY), Tiff81_62 (AY),

Start 19:

- Found in 1 of 56 (1.8%) of genes in pham
- Manual Annotations of this start: 1 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ThayneTheZag_69 (AY),

Start 20:

- Found in 6 of 56 (10.7%) of genes in pham
- Manual Annotations of this start: 5 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AbbyDaisy_67 (AY), AirForce1_64 (FL), BlackJade_71 (FL), Jinkies_59 (FL), LeBruni_64 (AY), SunnyJune_64 (FL),

Start 21:

- Found in 1 of 56 (1.8%) of genes in pham
- Manual Annotations of this start: 1 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Shukran_63 (AY),

Start 22:

- Found in 6 of 56 (10.7%) of genes in pham
- Manual Annotations of this start: 4 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anekin_67 (AY), CosmicBrownie_60 (AY), EvePickles_62 (AY), Hestia_57 (AY), Nyilah_66 (AY), Sashimi_64 (AY),

Summary by clusters:

There are 4 clusters represented in this pham: AY, FB, FL, FN,

Info for manual annotations of cluster AY:

- Start number 16 was manually annotated 22 times for cluster AY.
- Start number 17 was manually annotated 1 time for cluster AY.
- Start number 18 was manually annotated 9 times for cluster AY.
- Start number 19 was manually annotated 1 time for cluster AY.
- Start number 20 was manually annotated 2 times for cluster AY.
- Start number 21 was manually annotated 1 time for cluster AY.
- Start number 22 was manually annotated 4 times for cluster AY.

Info for manual annotations of cluster FL:

- Start number 20 was manually annotated 3 times for cluster FL.

Info for manual annotations of cluster FN:

- Start number 16 was manually annotated 2 times for cluster FN.

Gene Information:

Gene: AbbyDaisy_67 Start: 35923, Stop: 36399, Start Num: 20

Candidate Starts for AbbyDaisy_67:

(Start: 20 @35923 has 5 MA's), (29, 36163), (38, 36346), (39, 36373),

Gene: AdaS_61 Start: 33029, Stop: 33526, Start Num: 16
Candidate Starts for AdaS_61:
(Start: 16 @33029 has 24 MA's), (25, 33113), (33, 33320), (38, 33461), (40, 33500),

Gene: Aikyam_65 Start: 33348, Stop: 33845, Start Num: 16
Candidate Starts for Aikyam_65:
(Start: 16 @33348 has 24 MA's), (25, 33432), (33, 33639), (38, 33780), (40, 33819),

Gene: AirForce1_64 Start: 40067, Stop: 40564, Start Num: 20
Candidate Starts for AirForce1_64:
(Start: 20 @40067 has 5 MA's), (27, 40238), (29, 40307), (34, 40376),

Gene: Anekin_67 Start: 35803, Stop: 36291, Start Num: 22
Candidate Starts for Anekin_67:
(Start: 22 @35803 has 4 MA's), (25, 35878), (40, 36265),

Gene: BasketStar_67 Start: 35699, Stop: 36196, Start Num: 16
Candidate Starts for BasketStar_67:
(Start: 16 @35699 has 24 MA's), (25, 35783), (33, 35990), (38, 36131), (40, 36170),

Gene: Bauer_60 Start: 33441, Stop: 33938, Start Num: 16
Candidate Starts for Bauer_60:
(Start: 16 @33441 has 24 MA's), (25, 33525), (33, 33732), (38, 33873),

Gene: BenchScraper_64 Start: 34540, Stop: 35037, Start Num: 16
Candidate Starts for BenchScraper_64:
(Start: 16 @34540 has 24 MA's), (25, 34624), (33, 34831), (40, 35011),

Gene: Bhageatrice_69 Start: 37736, Stop: 38218, Start Num: 18
Candidate Starts for Bhageatrice_69:
(4, 37526), (Start: 18 @37736 has 9 MA's),

Gene: BillyTP_67 Start: 36395, Stop: 36892, Start Num: 16
Candidate Starts for BillyTP_67:
(Start: 16 @36395 has 24 MA's), (25, 36479), (33, 36686), (38, 36827), (40, 36866),

Gene: BlackJade_71 Start: 40780, Stop: 41265, Start Num: 20
Candidate Starts for BlackJade_71:
(8, 40687), (Start: 20 @40780 has 5 MA's),

Gene: BlackSpider_53 Start: 32056, Stop: 32553, Start Num: 16
Candidate Starts for BlackSpider_53:
(Start: 16 @32056 has 24 MA's), (25, 32140), (33, 32347), (38, 32488), (40, 32527),

Gene: Cassini_60 Start: 33896, Stop: 34396, Start Num: 17
Candidate Starts for Cassini_60:
(Start: 17 @33896 has 1 MA's), (25, 33980), (36, 34226), (40, 34370),

Gene: CookieBear_65 Start: 34779, Stop: 35276, Start Num: 16
Candidate Starts for CookieBear_65:
(Start: 16 @34779 has 24 MA's), (25, 34863), (33, 35070), (38, 35211), (40, 35250),

Gene: CosmicBrownie_60 Start: 33537, Stop: 34025, Start Num: 22

Candidate Starts for CosmicBrownie_60:
(Start: 22 @33537 has 4 MA's), (25, 33612), (38, 33960), (40, 33999),

Gene: Crescenzo_67 Start: 36666, Stop: 37148, Start Num: 18
Candidate Starts for Crescenzo_67:
(Start: 18 @36666 has 9 MA's), (36, 36996),

Gene: DarwinJr_69 Start: 36621, Stop: 37103, Start Num: 18
Candidate Starts for DarwinJr_69:
(4, 36411), (Start: 18 @36621 has 9 MA's), (36, 36951),

Gene: Ding_55 Start: 33078, Stop: 33560, Start Num: 18
Candidate Starts for Ding_55:
(Start: 18 @33078 has 9 MA's), (32, 33345),

Gene: EvePickles_62 Start: 34982, Stop: 35470, Start Num: 22
Candidate Starts for EvePickles_62:
(5, 34871), (7, 34880), (12, 34937), (Start: 22 @34982 has 4 MA's), (25, 35057), (33, 35264), (38, 35405), (40, 35444),

Gene: Faja_65 Start: 36154, Stop: 36651, Start Num: 16
Candidate Starts for Faja_65:
(Start: 16 @36154 has 24 MA's), (25, 36238), (33, 36445), (38, 36586), (40, 36625),

Gene: Gibbzilla_57 Start: 30346, Stop: 30828, Start Num: 18
Candidate Starts for Gibbzilla_57:
(Start: 18 @30346 has 9 MA's),

Gene: Globfish_66 Start: 35393, Stop: 35896, Start Num: 18
Candidate Starts for Globfish_66:
(Start: 18 @35393 has 9 MA's), (26, 35543), (36, 35723),

Gene: Gorpy_65 Start: 35771, Stop: 36268, Start Num: 16
Candidate Starts for Gorpy_65:
(Start: 16 @35771 has 24 MA's), (25, 35855), (33, 36062), (38, 36203), (40, 36242),

Gene: GumGum_67 Start: 35049, Stop: 35531, Start Num: 18
Candidate Starts for GumGum_67:
(4, 34839), (Start: 18 @35049 has 9 MA's),

Gene: Hestia_57 Start: 32371, Stop: 32859, Start Num: 22
Candidate Starts for Hestia_57:
(14, 32344), (Start: 22 @32371 has 4 MA's), (25, 32446), (40, 32833),

Gene: Hillester_71 Start: 36500, Stop: 37000, Start Num: 18
Candidate Starts for Hillester_71:
(Start: 18 @36500 has 9 MA's), (38, 36935), (40, 36974),

Gene: Isolde_64 Start: 34448, Stop: 34945, Start Num: 16
Candidate Starts for Isolde_64:
(Start: 16 @34448 has 24 MA's), (25, 34532), (33, 34739), (38, 34880), (40, 34919),

Gene: JellyBread_62 Start: 33800, Stop: 34297, Start Num: 16

Candidate Starts for JellyBread_62:

(Start: 16 @33800 has 24 MA's), (25, 33884), (33, 34091), (38, 34232), (40, 34271),

Gene: Jinkies_59 Start: 40369, Stop: 40863, Start Num: 20

Candidate Starts for Jinkies_59:

(1, 39847), (2, 39877), (3, 40138), (Start: 20 @40369 has 5 MA's), (27, 40540), (34, 40678),

Gene: Kabloowy_65 Start: 35720, Stop: 36193, Start Num: 16

Candidate Starts for Kabloowy_65:

(Start: 16 @35720 has 24 MA's), (25, 35804), (33, 36011), (38, 36152),

Gene: Lawnathon_66 Start: 34940, Stop: 35437, Start Num: 16

Candidate Starts for Lawnathon_66:

(Start: 16 @34940 has 24 MA's), (25, 35024), (33, 35231), (38, 35372), (40, 35411),

Gene: LeBruni_64 Start: 34387, Stop: 34863, Start Num: 20

Candidate Starts for LeBruni_64:

(15, 34381), (Start: 20 @34387 has 5 MA's), (28, 34576), (30, 34636), (31, 34645), (38, 34828),

Gene: MUWow_65 Start: 35115, Stop: 35612, Start Num: 16

Candidate Starts for MUWow_65:

(Start: 16 @35115 has 24 MA's), (25, 35199), (38, 35547), (40, 35586),

Gene: Mapleville_61 Start: 34259, Stop: 34756, Start Num: 16

Candidate Starts for Mapleville_61:

(Start: 16 @34259 has 24 MA's), (25, 34343), (33, 34550), (38, 34691), (40, 34730),

Gene: MaterMagnus_66 Start: 35520, Stop: 36017, Start Num: 16

Candidate Starts for MaterMagnus_66:

(Start: 16 @35520 has 24 MA's), (25, 35604), (33, 35811), (38, 35952), (40, 35991),

Gene: MidnightRain_69 Start: 36289, Stop: 36786, Start Num: 16

Candidate Starts for MidnightRain_69:

(Start: 16 @36289 has 24 MA's), (25, 36373), (33, 36580), (38, 36721), (40, 36760),

Gene: MurphyJoseph_62 Start: 34018, Stop: 34515, Start Num: 16

Candidate Starts for MurphyJoseph_62:

(Start: 16 @34018 has 24 MA's), (25, 34102), (33, 34309), (38, 34450), (40, 34489),

Gene: Nyilah_66 Start: 33991, Stop: 34482, Start Num: 22

Candidate Starts for Nyilah_66:

(13, 33955), (Start: 22 @33991 has 4 MA's), (25, 34066), (36, 34312), (40, 34456),

Gene: Phrank15_66 Start: 35071, Stop: 35568, Start Num: 16

Candidate Starts for Phrank15_66:

(Start: 16 @35071 has 24 MA's), (25, 35155), (33, 35362), (38, 35503), (40, 35542),

Gene: RadFad_71 Start: 36500, Stop: 37000, Start Num: 18

Candidate Starts for RadFad_71:

(Start: 18 @36500 has 9 MA's), (38, 36935), (40, 36974),

Gene: Raphaella_64 Start: 34638, Stop: 35135, Start Num: 16

Candidate Starts for Raphaella_64:

(Start: 16 @34638 has 24 MA's), (25, 34722), (33, 34929), (38, 35070), (40, 35109),

Gene: Richie_69 Start: 36443, Stop: 36940, Start Num: 16

Candidate Starts for Richie_69:

(Start: 16 @36443 has 24 MA's), (25, 36527), (33, 36734), (38, 36875), (40, 36914),

Gene: Sakai_64 Start: 34482, Stop: 34979, Start Num: 16

Candidate Starts for Sakai_64:

(Start: 16 @34482 has 24 MA's), (25, 34566), (33, 34773), (38, 34914), (40, 34953),

Gene: Sashimi_64 Start: 35743, Stop: 36231, Start Num: 22

Candidate Starts for Sashimi_64:

(Start: 22 @35743 has 4 MA's), (36, 36061), (37, 36082), (40, 36205),

Gene: Satrap_66 Start: 35166, Stop: 35648, Start Num: 18

Candidate Starts for Satrap_66:

(Start: 18 @35166 has 9 MA's), (36, 35496),

Gene: Seahorse_69 Start: 37007, Stop: 37489, Start Num: 18

Candidate Starts for Seahorse_69:

(4, 36797), (Start: 18 @37007 has 9 MA's), (36, 37337),

Gene: Shukran_63 Start: 33580, Stop: 34083, Start Num: 21

Candidate Starts for Shukran_63:

(6, 33472), (10, 33505), (12, 33535), (Start: 21 @33580 has 1 MA's), (23, 33598), (24, 33649), (38, 34006), (40, 34057),

Gene: SonDevVon_71 Start: 35791, Stop: 36288, Start Num: 16

Candidate Starts for SonDevVon_71:

(Start: 16 @35791 has 24 MA's), (25, 35875), (33, 36082), (38, 36223), (40, 36262),

Gene: SpicyFrank_69 Start: 36041, Stop: 36541, Start Num: 17

Candidate Starts for SpicyFrank_69:

(Start: 17 @36041 has 1 MA's), (25, 36125), (36, 36371), (40, 36515),

Gene: Sporco_68 Start: 36066, Stop: 36563, Start Num: 16

Candidate Starts for Sporco_68:

(Start: 16 @36066 has 24 MA's), (25, 36150), (33, 36357), (38, 36498), (40, 36537),

Gene: SunnyJune_64 Start: 40281, Stop: 40766, Start Num: 20

Candidate Starts for SunnyJune_64:

(Start: 20 @40281 has 5 MA's), (33, 40566), (34, 40590),

Gene: ThayneTheZag_69 Start: 35060, Stop: 35533, Start Num: 19

Candidate Starts for ThayneTheZag_69:

(9, 34982), (11, 35015), (Start: 19 @35060 has 1 MA's), (35, 35372), (38, 35495),

Gene: Tiff81_62 Start: 33420, Stop: 33902, Start Num: 18

Candidate Starts for Tiff81_62:

(Start: 18 @33420 has 9 MA's),

Gene: Vopal_68 Start: 37971, Stop: 38468, Start Num: 16

Candidate Starts for Vopal_68:

(Start: 16 @37971 has 24 MA's), (25, 38055), (33, 38262), (38, 38403), (40, 38442),

Gene: Windest_67 Start: 33998, Stop: 34495, Start Num: 16

Candidate Starts for Windest_67:

(Start: 16 @33998 has 24 MA's), (25, 34082), (33, 34289), (38, 34430), (40, 34469),

Gene: YoungHarleezy_65 Start: 35177, Stop: 35674, Start Num: 16

Candidate Starts for YoungHarleezy_65:

(Start: 16 @35177 has 24 MA's), (25, 35261), (33, 35468), (38, 35609), (40, 35648),