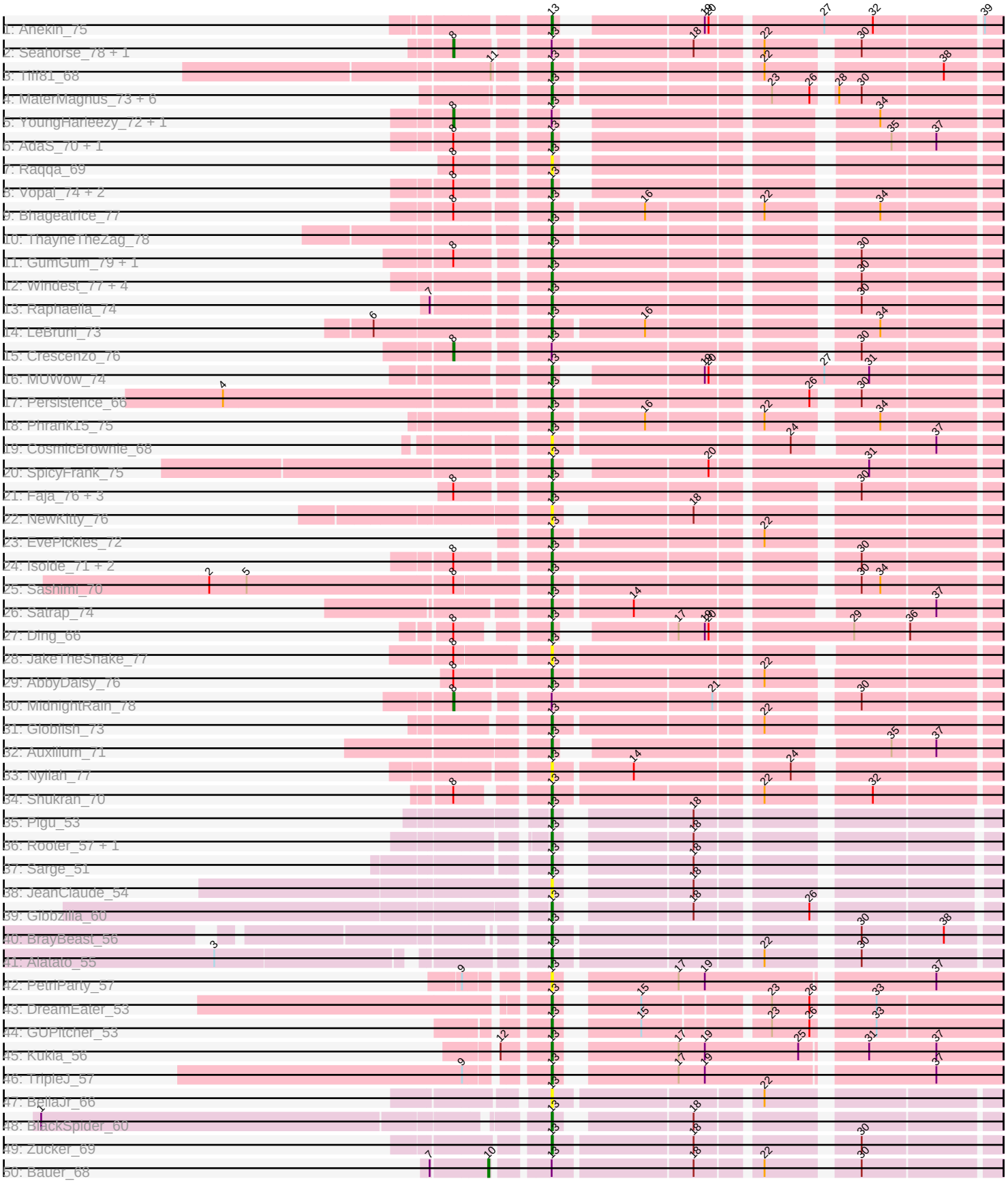
# Pham 347566


1: Anekin_75
2: Seahorse_78 + 1
3: Tiff81_68
4: MaterMagnus_73 + 6
5: YoungHaneezy_72 + 1
6: AdaS_70 + 1
7: Raqqa_69
8: Vopal_74 + 2
9: Bhageatrice_77
10: ThayneTheZag_78
11: GumGum_79 + 1
12: Windest_77 + 4
13: Raphaella_74
14: LeBrunt_73
15: Crescenzo_76
16: MOWow_74
17: Persistence_66
18: Phrank15_75
19: CosmicBrownie_68
20: SpicyFrank_75
21: Faja_76 + 3
22: NewKitty_76
23: EvePickles_72
24: Isolde_71 + 2
25: Sashimi_70
26: Satrap_74
27: Ding_66
28: JakeTheSnake_77
29: AbbyDaisy_76
30: MidnightRain_78
31: Globfish_73
32: Auxilium_71
33: Nyllah_77
34: Shukran_70
35: Pigu_53
36: Rooter_57 + 1
37: Sarge_51
38: JeanClaude_54
39: Gibbzilla_60
40: BrayBeast_56
41: Alatato_55
42: PetriParty_57
43: DreamEater_53
44: GUPitcher_53
45: Kukla_56
46: TripleJ_57
47: BellaJr_66
48: BlackSpider_60
49: Zucker_69
50: Bauer_68

# Pham 347566



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 347566 Report

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

Pham number 347566 has 73 members, 13 are drafts.

Phages represented in each track:
- Track 1 : Anekin_75
- Track 2 : Seahorse_78, Richie_76
- Track 3 : Tiff81_68
- Track 4 : MaterMagnus_73, Sakai_71, SonDevVon_80, Aikyam_72, Sporco_76, Gorpy_72, BlueShadow_72
- Track 5 : YoungHarleezy_72, MurphyJoseph_70
- Track 6 : AdaS_70, BillyTP_74
- Track 7 : Raqqa_69
- Track 8 : Vopal_74, Hillester_77, RadFad_77
- Track 9 : Bhageatrice_77
- Track 10 : ThayneTheZag_78
- Track 11 : GumGum_79, DarwinJr_78
- Track 12 : Windest_77, Lasker_74, Kabloowy_73, Lawnathon_76, Mapleville_69
- Track 13 : Raphaella_74
- Track 14 : LeBruni_73
- Track 15 : Crescenzo_76
- Track 16 : MUWow_74
- Track 17 : Persistence_66
- Track 18 : Phrank15_75
- Track 19 : CosmicBrownie_68
- Track 20 : SpicyFrank_75
- Track 21 : Faja_76, JellyBread_71, Hestia_67, BasketStar_74
- Track 22 : NewKitty_76
- Track 23 : EvePickles_72
- Track 24 : Isolde_71, CookieBear_72, BenchScraper_73
- Track 25 : Sashimi_70
- Track 26 : Satrap_74
- Track 27 : Ding_66
- Track 28 : JakeTheSnake_77
- Track 29 : AbbyDaisy_76
- Track 30 : MidnightRain_78
- Track 31 : Globfish_73
- Track 32 : Auxilium_71
- Track 33 : Nyilah_77
- Track 34 : Shukran_70
- Track 35 : Pigu_53
- Track 36 : Rooter_57, Shoya_56

• Track 37 : Sarge_51
• Track 38 : JeanClaude_54
• Track 39 : Gibbzilla_60
• Track 40 : BrayBeast_56
• Track 41 : Alatato_55
• Track 42 : PetriParty_57
• Track 43 : DreamEater_53
• Track 44 : GUPitcher_53
• Track 45 : Kukla_56
• Track 46 : TripleJ_57
• Track 47 : BellaJr_66
• Track 48 : BlackSpider_60
• Track 49 : Zucker_69
• Track 50 : Bauer_68
• Track 51 : Cassini_70

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

The start number called the most often in the published annotations is 13, it was called in 53 of the 60 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AbbyDaisy_76, AdaS_70, Aikyam_72, Alatato_55, Anekin_75, Auxilium_71, BasketStar_74, BellaJr_66, BenchScraper_73, Bhageatrice_77, BillyTP_74, BlackSpider_60, BlueShadow_72, BrayBeast_56, Cassini_70, CookieBear_72, CosmicBrownie_68, DarwinJr_78, Ding_66, DreamEater_53, EvePickles_72, Faja_76, GUPitcher_53, Gibbzilla_60, Globfish_73, Gorpy_72, GumGum_79, Hestia_67, Hillester_77, Isolde_71, JakeTheSnake_77, JeanClaude_54, JellyBread_71, Kabloowy_73, Kukla_56, Lasker_74, Lawnathon_76, LeBruni_73, MUWow_74, Mapleville_69, MaterMagnus_73, NewKitty_76, Nyilah_77, Persistence_66, PetriParty_57, Phrank15_75, Pigu_53, RadFad_77, Raphaella_74, Raqqa_69, Rooter_57, Sakai_71, Sarge_51, Sashimi_70, Satrap_74, Shoya_56, Shukran_70, SonDevVon_80, SpicyFrank_75, Sporco_76, ThayneTheZag_78, Tiff81_68, TripleJ_57, Vopal_74, Windest_77, Zucker_69,

Genes that have the "Most Annotated" start but do not call it:
• Bauer_68, Crescenzo_76, MidnightRain_78, MurphyJoseph_70, Richie_76, Seahorse_78, YoungHarleezy_72,

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

**Summary by start number:**

Start 8:
• Found in 27 of 73 ( 37.0% ) of genes in pham
• Manual Annotations of this start: 6 of 60
• Called 22.2% of time when present
• Phage (with cluster) where this start called: Crescenzo_76 (AY), MidnightRain_78 (AY), MurphyJoseph_70 (AY), Richie_76 (AY), Seahorse_78 (AY),

YoungHarleezy_72 (AY),

Start 10:
• Found in 1 of 73 ( 1.4% ) of genes in pham
• Manual Annotations of this start: 1 of 60
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bauer_68 (FN),

Start 13:
• Found in 73 of 73 ( 100.0% ) of genes in pham
• Manual Annotations of this start: 53 of 60
• Called 90.4% of time when present
• Phage (with cluster) where this start called: AbbyDaisy_76 (AY), AdaS_70 (AY), Aikyam_72 (AY), Alatato_55 (FB), Anekin_75 (AY), Auxilium_71 (AY), BasketStar_74 (AY), BellaJr_66 (FN), BenchScraper_73 (AY), Bhageatrice_77 (AY), BillyTP_74 (AY), BlackSpider_60 (FN), BlueShadow_72 (AY), BrayBeast_56 (FB), Cassini_70 (FN), CookieBear_72 (AY), CosmicBrownie_68 (AY), DarwinJr_78 (AY), Ding_66 (AY), DreamEater_53 (FJ), EvePickles_72 (AY), Faja_76 (AY), GUPitcher_53 (FJ), Gibbzilla_60 (FB), Globfish_73 (AY), Gorpy_72 (AY), GumGum_79 (AY), Hestia_67 (AY), Hillester_77 (AY), Isolde_71 (AY), JakeTheSnake_77 (AY), JeanClaude_54 (FB), JellyBread_71 (AY), Kabloowy_73 (AY), Kukla_56 (FJ), Lasker_74 (AY), Lawnathon_76 (AY), LeBruni_73 (AY), MUWow_74 (AY), Mapleville_69 (AY), MaterMagnus_73 (AY), NewKitty_76 (AY), Nyilah_77 (AY), Persistence_66 (AY), PetriParty_57 (FJ), Phrank15_75 (AY), Pigu_53 (FB), RadFad_77 (AY), Raphaella_74 (AY), Raqqa_69 (AY), Rooter_57 (FB), Sakai_71 (AY), Sarge_51 (FB), Sashimi_70 (AY), Satrap_74 (AY), Shoya_56 (FB), Shukran_70 (AY), SonDevVon_80 (AY), SpicyFrank_75 (AY), Sporco_76 (AY), ThayneTheZag_78 (AY), Tiff81_68 (AY), TripleJ_57 (FJ), Vopal_74 (AY), Windest_77 (AY), Zucker_69 (FN),

**Summary by clusters:**

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

Info for manual annotations of cluster AY:
•Start number 8 was manually annotated 6 times for cluster AY.
•Start number 13 was manually annotated 39 times for cluster AY.

Info for manual annotations of cluster FB:
•Start number 13 was manually annotated 7 times for cluster FB.

Info for manual annotations of cluster FJ:
•Start number 13 was manually annotated 4 times for cluster FJ.

Info for manual annotations of cluster FN:
•Start number 10 was manually annotated 1 time for cluster FN.
•Start number 13 was manually annotated 3 times for cluster FN.

***Gene Information:***

Gene: AbbyDaisy_76 Start: 41022, Stop: 41339, Start Num: 13
Candidate Starts for AbbyDaisy_76:

(Start: 8 @40953 has 6 MA's), (Start: 13 @41022 has 53 MA's), (22, 41172),

Gene: AdaS_70 Start: 36753, Stop: 37049, Start Num: 13
Candidate Starts for AdaS_70:
(Start: 8 @36693 has 6 MA's), (Start: 13 @36753 has 53 MA's), (35, 36969), (37, 37002),

Gene: Aikyam_72 Start: 37441, Stop: 37758, Start Num: 13
Candidate Starts for Aikyam_72:
(Start: 13 @37441 has 53 MA's), (23, 37597), (26, 37627), (28, 37636), (30, 37654),

Gene: Alatato_55 Start: 32020, Stop: 32337, Start Num: 13
Candidate Starts for Alatato_55:
(3, 31789), (Start: 13 @32020 has 53 MA's), (22, 32170), (30, 32233),

Gene: Anekin_75 Start: 40019, Stop: 40330, Start Num: 13
Candidate Starts for Anekin_75:
(Start: 13 @40019 has 53 MA's), (19, 40112), (20, 40115), (27, 40196), (32, 40235), (39, 40316),

Gene: Auxilium_71 Start: 37005, Stop: 37301, Start Num: 13
Candidate Starts for Auxilium_71:
(Start: 13 @37005 has 53 MA's), (35, 37221), (37, 37254),

Gene: BasketStar_74 Start: 39773, Stop: 40096, Start Num: 13
Candidate Starts for BasketStar_74:
(Start: 8 @39713 has 6 MA's), (Start: 13 @39773 has 53 MA's), (30, 39992),

Gene: Bauer_68 Start: 38091, Stop: 38444, Start Num: 10
Candidate Starts for Bauer_68:
(7, 38049), (Start: 10 @38091 has 1 MA's), (Start: 13 @38127 has 53 MA's), (18, 38232), (22, 38277), (30, 38340),

Gene: BellaJr_66 Start: 38431, Stop: 38748, Start Num: 13
Candidate Starts for BellaJr_66:
(Start: 13 @38431 has 53 MA's), (22, 38581),

Gene: BenchScraper_73 Start: 38140, Stop: 38463, Start Num: 13
Candidate Starts for BenchScraper_73:
(Start: 8 @38080 has 6 MA's), (Start: 13 @38140 has 53 MA's), (30, 38359),

Gene: Bhageatrice_77 Start: 41825, Stop: 42142, Start Num: 13
Candidate Starts for Bhageatrice_77:
(Start: 8 @41762 has 6 MA's), (Start: 13 @41825 has 53 MA's), (16, 41894), (22, 41975), (34, 42053),

Gene: BillyTP_74 Start: 39995, Stop: 40291, Start Num: 13
Candidate Starts for BillyTP_74:
(Start: 8 @39935 has 6 MA's), (Start: 13 @39995 has 53 MA's), (35, 40211), (37, 40244),

Gene: BlackSpider_60 Start: 36140, Stop: 36442, Start Num: 13
Candidate Starts for BlackSpider_60:
(1, 35759), (Start: 13 @36140 has 53 MA's), (18, 36230),

Gene: BlueShadow_72 Start: 39289, Stop: 39606, Start Num: 13
Candidate Starts for BlueShadow_72:

(Start: 13 @39289 has 53 MA's), (23, 39445), (26, 39475), (28, 39484), (30, 39502),

Gene: BrayBeast_56 Start: 31864, Stop: 32181, Start Num: 13
Candidate Starts for BrayBeast_56:
(Start: 13 @31864 has 53 MA's), (30, 32077), (38, 32140),

Gene: Cassini_70 Start: 38385, Stop: 38699, Start Num: 13
Candidate Starts for Cassini_70:
(Start: 13 @38385 has 53 MA's), (20, 38484), (31, 38601),

Gene: CookieBear_72 Start: 38614, Stop: 38937, Start Num: 13
Candidate Starts for CookieBear_72:
(Start: 8 @38554 has 6 MA's), (Start: 13 @38614 has 53 MA's), (30, 38833),

Gene: CosmicBrownie_68 Start: 37819, Stop: 38136, Start Num: 13
Candidate Starts for CosmicBrownie_68:
(Start: 13 @37819 has 53 MA's), (24, 37993), (37, 38089),

Gene: Crescenzo_76 Start: 41349, Stop: 41732, Start Num: 8
Candidate Starts for Crescenzo_76:
(Start: 8 @41349 has 6 MA's), (Start: 13 @41409 has 53 MA's), (30, 41628),

Gene: DarwinJr_78 Start: 41364, Stop: 41687, Start Num: 13
Candidate Starts for DarwinJr_78:
(Start: 8 @41304 has 6 MA's), (Start: 13 @41364 has 53 MA's), (30, 41583),

Gene: Ding_66 Start: 38655, Stop: 38966, Start Num: 13
Candidate Starts for Ding_66:
(Start: 8 @38598 has 6 MA's), (Start: 13 @38655 has 53 MA's), (17, 38727), (19, 38748), (20, 38751), (29, 38856), (36, 38898),

Gene: DreamEater_53 Start: 35811, Stop: 36119, Start Num: 13
Candidate Starts for DreamEater_53:
(Start: 13 @35811 has 53 MA's), (15, 35862), (23, 35952), (26, 35982), (33, 36021),

Gene: EvePickles_72 Start: 39884, Stop: 40201, Start Num: 13
Candidate Starts for EvePickles_72:
(Start: 13 @39884 has 53 MA's), (22, 40034),

Gene: Faja_76 Start: 40656, Stop: 40979, Start Num: 13
Candidate Starts for Faja_76:
(Start: 8 @40596 has 6 MA's), (Start: 13 @40656 has 53 MA's), (30, 40875),

Gene: GUPitcher_53 Start: 35925, Stop: 36233, Start Num: 13
Candidate Starts for GUPitcher_53:
(Start: 13 @35925 has 53 MA's), (15, 35976), (23, 36066), (26, 36096), (33, 36135),

Gene: Gibbzilla_60 Start: 33193, Stop: 33492, Start Num: 13
Candidate Starts for Gibbzilla_60:
(Start: 13 @33193 has 53 MA's), (18, 33283), (26, 33364),

Gene: Globfish_73 Start: 38348, Stop: 38665, Start Num: 13
Candidate Starts for Globfish_73:

(Start: 13 @38348 has 53 MA's), (22, 38498),

Gene: Gorpy_72 Start: 39861, Stop: 40178, Start Num: 13
Candidate Starts for Gorpy_72:
(Start: 13 @39861 has 53 MA's), (23, 40017), (26, 40047), (28, 40056), (30, 40074),

Gene: GumGum_79 Start: 39801, Stop: 40124, Start Num: 13
Candidate Starts for GumGum_79:
(Start: 8 @39741 has 6 MA's), (Start: 13 @39801 has 53 MA's), (30, 40020),

Gene: Hestia_67 Start: 36879, Stop: 37202, Start Num: 13
Candidate Starts for Hestia_67:
(Start: 8 @36819 has 6 MA's), (Start: 13 @36879 has 53 MA's), (30, 37098),

Gene: Hillester_77 Start: 39406, Stop: 39702, Start Num: 13
Candidate Starts for Hillester_77:
(Start: 8 @39346 has 6 MA's), (Start: 13 @39406 has 53 MA's),

Gene: Isolde_71 Start: 38725, Stop: 39048, Start Num: 13
Candidate Starts for Isolde_71:
(Start: 8 @38665 has 6 MA's), (Start: 13 @38725 has 53 MA's), (30, 38944),

Gene: JakeTheSnake_77 Start: 41715, Stop: 42032, Start Num: 13
Candidate Starts for JakeTheSnake_77:
(Start: 8 @41652 has 6 MA's), (Start: 13 @41715 has 53 MA's),

Gene: JeanClaude_54 Start: 30349, Stop: 30648, Start Num: 13
Candidate Starts for JeanClaude_54:
(Start: 13 @30349 has 53 MA's), (18, 30439),

Gene: JellyBread_71 Start: 38870, Stop: 39193, Start Num: 13
Candidate Starts for JellyBread_71:
(Start: 8 @38810 has 6 MA's), (Start: 13 @38870 has 53 MA's), (30, 39089),

Gene: Kabloowy_73 Start: 39754, Stop: 40077, Start Num: 13
Candidate Starts for Kabloowy_73:
(Start: 13 @39754 has 53 MA's), (30, 39973),

Gene: Kukla_56 Start: 35378, Stop: 35701, Start Num: 13
Candidate Starts for Kukla_56:
(12, 35345), (Start: 13 @35378 has 53 MA's), (17, 35459), (19, 35480), (25, 35555), (31, 35594), (37, 35648),

Gene: Lasker_74 Start: 40249, Stop: 40572, Start Num: 13
Candidate Starts for Lasker_74:
(Start: 13 @40249 has 53 MA's), (30, 40468),

Gene: Lawnathon_76 Start: 38975, Stop: 39298, Start Num: 13
Candidate Starts for Lawnathon_76:
(Start: 13 @38975 has 53 MA's), (30, 39194),

Gene: LeBruni_73 Start: 38212, Stop: 38529, Start Num: 13
Candidate Starts for LeBruni_73:

(6, 38089), (Start: 13 @38212 has 53 MA's), (16, 38281), (34, 38440),

Gene: MUWow_74 Start: 40107, Stop: 40418, Start Num: 13
Candidate Starts for MUWow_74:
(Start: 13 @40107 has 53 MA's), (19, 40200), (20, 40203), (27, 40284), (31, 40320),

Gene: Mapleville_69 Start: 38294, Stop: 38617, Start Num: 13
Candidate Starts for Mapleville_69:
(Start: 13 @38294 has 53 MA's), (30, 38513),

Gene: MaterMagnus_73 Start: 39613, Stop: 39930, Start Num: 13
Candidate Starts for MaterMagnus_73:
(Start: 13 @39613 has 53 MA's), (23, 39769), (26, 39799), (28, 39808), (30, 39826),

Gene: MidnightRain_78 Start: 40135, Stop: 40518, Start Num: 8
Candidate Starts for MidnightRain_78:
(Start: 8 @40135 has 6 MA's), (Start: 13 @40195 has 53 MA's), (21, 40321), (30, 40414),

Gene: MurphyJoseph_70 Start: 37081, Stop: 37437, Start Num: 8
Candidate Starts for MurphyJoseph_70:
(Start: 8 @37081 has 6 MA's), (Start: 13 @37141 has 53 MA's), (34, 37348),

Gene: NewKitty_76 Start: 40595, Stop: 40897, Start Num: 13
Candidate Starts for NewKitty_76:
(Start: 13 @40595 has 53 MA's), (18, 40685),

Gene: Nyilah_77 Start: 38886, Stop: 39203, Start Num: 13
Candidate Starts for Nyilah_77:
(Start: 13 @38886 has 53 MA's), (14, 38946), (24, 39060),

Gene: Persistence_66 Start: 36801, Stop: 37118, Start Num: 13
Candidate Starts for Persistence_66:
(4, 36561), (Start: 13 @36801 has 53 MA's), (26, 36987), (30, 37014),

Gene: PetriParty_57 Start: 35402, Stop: 35725, Start Num: 13
Candidate Starts for PetriParty_57:
(9, 35351), (Start: 13 @35402 has 53 MA's), (17, 35483), (19, 35504), (37, 35672),

Gene: Phrank15_75 Start: 38696, Stop: 39013, Start Num: 13
Candidate Starts for Phrank15_75:
(Start: 13 @38696 has 53 MA's), (16, 38765), (22, 38846), (34, 38924),

Gene: Pigu_53 Start: 30796, Stop: 31095, Start Num: 13
Candidate Starts for Pigu_53:
(Start: 13 @30796 has 53 MA's), (18, 30886),

Gene: RadFad_77 Start: 39406, Stop: 39702, Start Num: 13
Candidate Starts for RadFad_77:
(Start: 8 @39346 has 6 MA's), (Start: 13 @39406 has 53 MA's),

Gene: Raphaella_74 Start: 38671, Stop: 38994, Start Num: 13
Candidate Starts for Raphaella_74:
(7, 38596), (Start: 13 @38671 has 53 MA's), (30, 38890),

Gene: Raqqa_69 Start: 36817, Stop: 37113, Start Num: 13
Candidate Starts for Raqqa_69:
(Start: 8 @36757 has 6 MA's), (Start: 13 @36817 has 53 MA's),

Gene: Richie_76 Start: 40479, Stop: 40859, Start Num: 8
Candidate Starts for Richie_76:
(Start: 8 @40479 has 6 MA's), (Start: 13 @40542 has 53 MA's), (18, 40647), (22, 40692), (30, 40755),

Gene: Rooter_57 Start: 32237, Stop: 32536, Start Num: 13
Candidate Starts for Rooter_57:
(Start: 13 @32237 has 53 MA's), (18, 32327),

Gene: Sakai_71 Start: 38572, Stop: 38889, Start Num: 13
Candidate Starts for Sakai_71:
(Start: 13 @38572 has 53 MA's), (23, 38728), (26, 38758), (28, 38767), (30, 38785),

Gene: Sarge_51 Start: 30199, Stop: 30498, Start Num: 13
Candidate Starts for Sarge_51:
(Start: 13 @30199 has 53 MA's), (18, 30289),

Gene: Sashimi_70 Start: 38667, Stop: 38984, Start Num: 13
Candidate Starts for Sashimi_70:
(2, 38412), (5, 38442), (Start: 8 @38604 has 6 MA's), (Start: 13 @38667 has 53 MA's), (30, 38880), (34, 38895),

Gene: Satrap_74 Start: 39319, Stop: 39636, Start Num: 13
Candidate Starts for Satrap_74:
(Start: 13 @39319 has 53 MA's), (14, 39379), (37, 39589),

Gene: Seahorse_78 Start: 41611, Stop: 41991, Start Num: 8
Candidate Starts for Seahorse_78:
(Start: 8 @41611 has 6 MA's), (Start: 13 @41674 has 53 MA's), (18, 41779), (22, 41824), (30, 41887),

Gene: Shoya_56 Start: 31813, Stop: 32112, Start Num: 13
Candidate Starts for Shoya_56:
(Start: 13 @31813 has 53 MA's), (18, 31903),

Gene: Shukran_70 Start: 37615, Stop: 37932, Start Num: 13
Candidate Starts for Shukran_70:
(Start: 8 @37558 has 6 MA's), (Start: 13 @37615 has 53 MA's), (22, 37765), (32, 37837),

Gene: SonDevVon_80 Start: 39621, Stop: 39938, Start Num: 13
Candidate Starts for SonDevVon_80:
(Start: 13 @39621 has 53 MA's), (23, 39777), (26, 39807), (28, 39816), (30, 39834),

Gene: SpicyFrank_75 Start: 38962, Stop: 39276, Start Num: 13
Candidate Starts for SpicyFrank_75:
(Start: 13 @38962 has 53 MA's), (20, 39061), (31, 39178),

Gene: Sporco_76 Start: 40357, Stop: 40674, Start Num: 13
Candidate Starts for Sporco_76:
(Start: 13 @40357 has 53 MA's), (23, 40513), (26, 40543), (28, 40552), (30, 40570),

Gene: ThayneTheZag_78 Start: 39595, Stop: 39912, Start Num: 13
Candidate Starts for ThayneTheZag_78:
(Start: 13 @39595 has 53 MA's),

Gene: Tiff81_68 Start: 37265, Stop: 37582, Start Num: 13
Candidate Starts for Tiff81_68:
(11, 37229), (Start: 13 @37265 has 53 MA's), (22, 37415), (38, 37541),

Gene: TripleJ_57 Start: 35331, Stop: 35654, Start Num: 13
Candidate Starts for TripleJ_57:
(9, 35280), (Start: 13 @35331 has 53 MA's), (17, 35412), (19, 35433), (37, 35601),

Gene: Vopal_74 Start: 40874, Stop: 41170, Start Num: 13
Candidate Starts for Vopal_74:
(Start: 8 @40814 has 6 MA's), (Start: 13 @40874 has 53 MA's),

Gene: Windest_77 Start: 38033, Stop: 38356, Start Num: 13
Candidate Starts for Windest_77:
(Start: 13 @38033 has 53 MA's), (30, 38252),

Gene: YoungHarleezy_72 Start: 38387, Stop: 38743, Start Num: 8
Candidate Starts for YoungHarleezy_72:
(Start: 8 @38387 has 6 MA's), (Start: 13 @38447 has 53 MA's), (34, 38654),

Gene: Zucker_69 Start: 40359, Stop: 40676, Start Num: 13
Candidate Starts for Zucker_69:
(Start: 13 @40359 has 53 MA's), (18, 40464), (30, 40572),