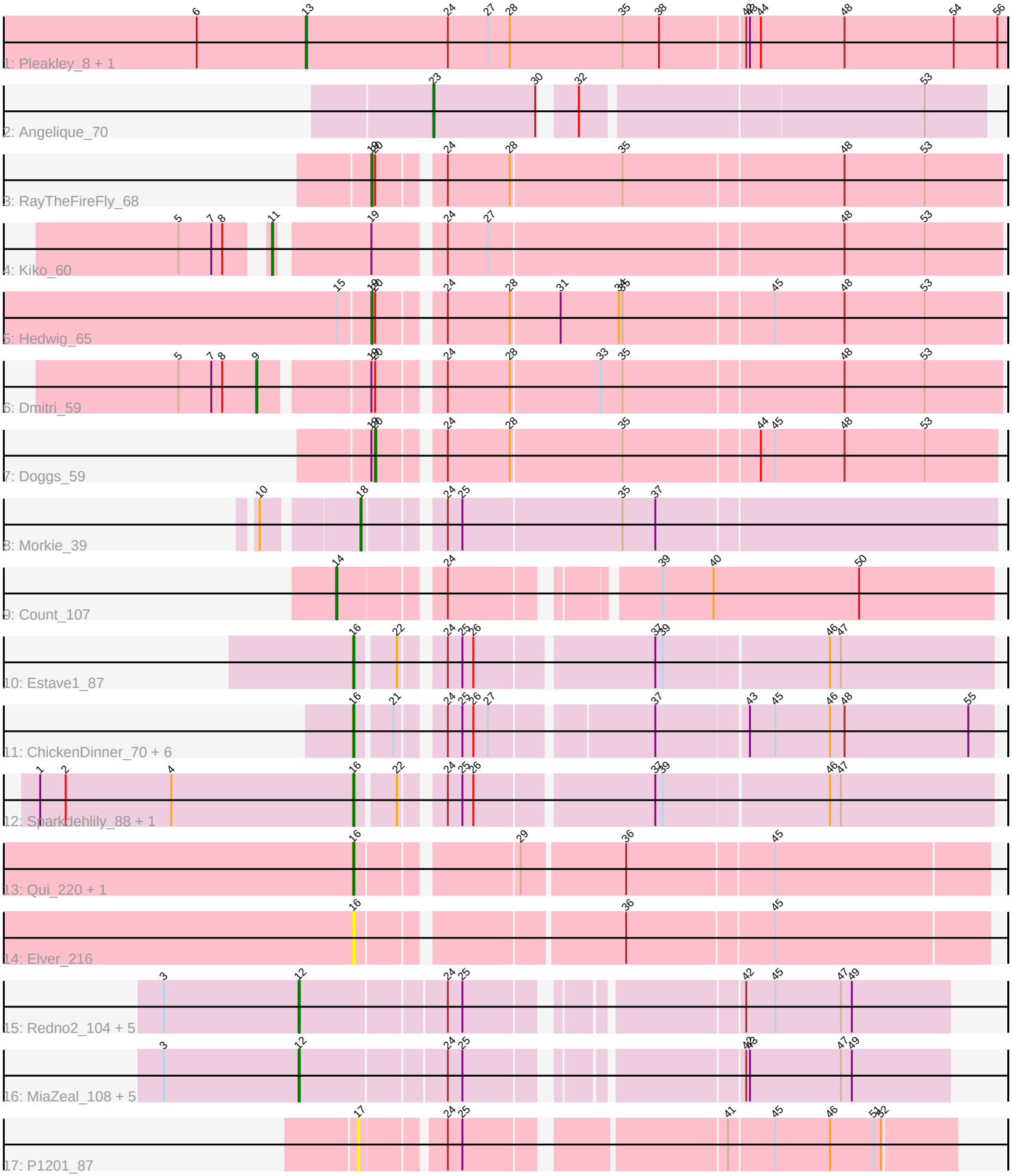
Pham 86097


1: Pleakley_8 + 1
2: Angelique_70
3: RayTheFireFly_68
4: Kiko_60
5: Hedwig_65
6: Dmitri_59
7: Doggs_59
8: Morkie_39
9: Count_107
10: Estave1_87
11: ChickenDinner_70 + 6
12: Sparkdehlily_88 + 1
13: Qui_220 + 1
14: Elver_216
15: Redno2_104 + 5
16: MiaZeal_108 + 5
17: P1201_87

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 86097 Report

This analysis was run 04/28/24 on database version 559.

Pham number 86097 has 36 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Pleakley_8, Fury_8
• Track 2 : Angelique_70
• Track 3 : RayTheFireFly_68
• Track 4 : Kiko_60
• Track 5 : Hedwig_65
• Track 6 : Dmitri_59
• Track 7 : Doggs_59
• Track 8 : Morkie_39
• Track 9 : Count_107
• Track 10 : Estave1_87
• Track 11 : ChickenDinner_70, Awesomesauce_68, LilSpotty_65, DocMcStuffins_67, Piper2020_69, Misha28_66, TootsiePop_66
• Track 12 : Sparkdehlily_88, TDanisky_89
• Track 13 : Qui_220, Paella_220
• Track 14 : Elver_216
• Track 15 : Redno2_104, Ejimix_106, Halley_114, JuicyJay_109, Beem_114, Lucky2013_105
• Track 16 : MiaZeal_108, KashFlow_105, Ariel_108, Superphikiman_105, Courthouse_103, Squint_106
• Track 17 : P1201_87

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

The start number called the most often in the published annotations is 12, it was called in 12 of the 32 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ariel_108, Beem_114, Courthouse_103, Ejimix_106, Halley_114, JuicyJay_109, KashFlow_105, Lucky2013_105, MiaZeal_108, Redno2_104, Squint_106, Superphikiman_105,

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

Genes that do not have the "Most Annotated" start:
• Angelique_70, Awesomesauce_68, ChickenDinner_70, Count_107, Dmitri_59, DocMcStuffins_67, Doggs_59, Elver_216, Estave1_87, Fury_8, Hedwig_65, Kiko_60, LilSpotty_65, Misha28_66, Morkie_39, P1201_87, Paella_220, Piper2020_69, Pleakley_8, Qui_220, RayTheFireFly_68, Sparkdehlily_88, TDanisky_89, TootsiePop_66,

Summary by start number:

Start 9:
• Found in 1 of 36 (2.8%) of genes in pham
• Manual Annotations of this start: 1 of 32
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Dmitri_59 (DB),

Start 11:
• Found in 1 of 36 (2.8%) of genes in pham
• Manual Annotations of this start: 1 of 32
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kiko_60 (DB),

Start 12:
• Found in 12 of 36 (33.3%) of genes in pham
• Manual Annotations of this start: 12 of 32
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ariel_108 (J), Beem_114 (J), Courthouse_103 (J), Ejimix_106 (J), Halley_114 (J), JuicyJay_109 (J), KashFlow_105 (J), Lucky2013_105 (J), MiaZeal_108 (J), Redno2_104 (J), Squint_106 (J), Superphikiman_105 (J),

Start 13:
• Found in 2 of 36 (5.6%) of genes in pham
• Manual Annotations of this start: 2 of 32
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Fury_8 (CR5), Pleakley_8 (CR5),

Start 14:
• Found in 1 of 36 (2.8%) of genes in pham
• Manual Annotations of this start: 1 of 32
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Count_107 (EL),

Start 16:
• Found in 13 of 36 (36.1%) of genes in pham
• Manual Annotations of this start: 10 of 32
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Awesomesauce_68 (F1), ChickenDinner_70 (F1), DocMcStuffins_67 (F1), Elver_216 (FK), Estave1_87 (F1), LilSpotty_65 (singleton), Misha28_66 (F1), Paella_220 (FK), Piper2020_69 (F1), Qui_220 (FK), Sparkdehlily_88 (F1), TDanisky_89 (F1), TootsiePop_66 (F1),

Start 17:
• Found in 1 of 36 (2.8%) of genes in pham

• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: P1201_87 (singleton),

Start 18:
• Found in 1 of 36 (2.8%) of genes in pham
• Manual Annotations of this start: 1 of 32
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Morkie_39 (DH),

Start 19:
• Found in 5 of 36 (13.9%) of genes in pham
• Manual Annotations of this start: 2 of 32
• Called 40.0% of time when present
• Phage (with cluster) where this start called: Hedwig_65 (DB), RayTheFireFly_68 (DB),

Start 20:
• Found in 4 of 36 (11.1%) of genes in pham
• Manual Annotations of this start: 1 of 32
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Doggs_59 (DB),

Start 23:
• Found in 1 of 36 (2.8%) of genes in pham
• Manual Annotations of this start: 1 of 32
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Angelique_70 (CY1),

Summary by clusters:

There are 9 clusters represented in this pham: EL, CY1, DH, CR5, J, DB, singleton, F1, FK,

Info for manual annotations of cluster CR5:
•Start number 13 was manually annotated 2 times for cluster CR5.

Info for manual annotations of cluster CY1:
•Start number 23 was manually annotated 1 time for cluster CY1.

Info for manual annotations of cluster DB:
•Start number 9 was manually annotated 1 time for cluster DB.
•Start number 11 was manually annotated 1 time for cluster DB.
•Start number 19 was manually annotated 2 times for cluster DB.
•Start number 20 was manually annotated 1 time for cluster DB.

Info for manual annotations of cluster DH:
•Start number 18 was manually annotated 1 time for cluster DH.

Info for manual annotations of cluster EL:
•Start number 14 was manually annotated 1 time for cluster EL.

Info for manual annotations of cluster F1:

•Start number 16 was manually annotated 7 times for cluster F1.

Info for manual annotations of cluster FK:
•Start number 16 was manually annotated 2 times for cluster FK.

Info for manual annotations of cluster J:
•Start number 12 was manually annotated 12 times for cluster J.

Gene Information:

Gene: Angelique_70 Start: 48442, Stop: 48864, Start Num: 23
Candidate Starts for Angelique_70:
(Start: 23 @48442 has 1 MA's), (30, 48526), (32, 48547), (53, 48814),

Gene: Ariel_108 Start: 59356, Stop: 59844, Start Num: 12
Candidate Starts for Ariel_108:
(3, 59245), (Start: 12 @59356 has 12 MA's), (24, 59470), (25, 59482), (42, 59677), (43, 59680), (47, 59755), (49, 59764),

Gene: Awesomesauce_68 Start: 41987, Stop: 42472, Start Num: 16
Candidate Starts for Awesomesauce_68:
(Start: 16 @41987 has 10 MA's), (21, 42014), (24, 42044), (25, 42056), (26, 42065), (27, 42077), (37, 42200), (43, 42272), (45, 42293), (46, 42338), (48, 42350), (55, 42452),

Gene: Beem_114 Start: 64941, Stop: 65429, Start Num: 12
Candidate Starts for Beem_114:
(3, 64830), (Start: 12 @64941 has 12 MA's), (24, 65055), (25, 65067), (42, 65262), (45, 65286), (47, 65340), (49, 65349),

Gene: ChickenDinner_70 Start: 42904, Stop: 43389, Start Num: 16
Candidate Starts for ChickenDinner_70:
(Start: 16 @42904 has 10 MA's), (21, 42931), (24, 42961), (25, 42973), (26, 42982), (27, 42994), (37, 43117), (43, 43189), (45, 43210), (46, 43255), (48, 43267), (55, 43369),

Gene: Count_107 Start: 65750, Stop: 66241, Start Num: 14
Candidate Starts for Count_107:
(Start: 14 @65750 has 1 MA's), (24, 65825), (39, 65969), (40, 66011), (50, 66131),

Gene: Courthouse_103 Start: 58956, Stop: 59444, Start Num: 12
Candidate Starts for Courthouse_103:
(3, 58845), (Start: 12 @58956 has 12 MA's), (24, 59070), (25, 59082), (42, 59277), (43, 59280), (47, 59355), (49, 59364),

Gene: Dmitri_59 Start: 43295, Stop: 43870, Start Num: 9
Candidate Starts for Dmitri_59:
(5, 43232), (7, 43259), (8, 43268), (Start: 9 @43295 has 1 MA's), (Start: 19 @43376 has 2 MA's), (Start: 20 @43379 has 1 MA's), (24, 43424), (28, 43475), (33, 43547), (35, 43565), (48, 43742), (53, 43808),

Gene: DocMcStuffins_67 Start: 42904, Stop: 43389, Start Num: 16
Candidate Starts for DocMcStuffins_67:

(Start: 16 @42904 has 10 MA's), (21, 42931), (24, 42961), (25, 42973), (26, 42982), (27, 42994), (37, 43117), (43, 43189), (45, 43210), (46, 43255), (48, 43267), (55, 43369),

Gene: Doggs_59 Start: 42478, Stop: 42966, Start Num: 20
Candidate Starts for Doggs_59:
(Start: 19 @42475 has 2 MA's), (Start: 20 @42478 has 1 MA's), (24, 42523), (28, 42574), (35, 42664), (44, 42772), (45, 42784), (48, 42841), (53, 42907),

Gene: Ejimix_106 Start: 64635, Stop: 65123, Start Num: 12
Candidate Starts for Ejimix_106:
(3, 64524), (Start: 12 @64635 has 12 MA's), (24, 64749), (25, 64761), (42, 64956), (45, 64980), (47, 65034), (49, 65043),

Gene: Elver_216 Start: 100221, Stop: 100709, Start Num: 16
Candidate Starts for Elver_216:
(Start: 16 @100221 has 10 MA's), (36, 100419), (45, 100536),

Gene: Estave1_87 Start: 52050, Stop: 52538, Start Num: 16
Candidate Starts for Estave1_87:
(Start: 16 @52050 has 10 MA's), (22, 52080), (24, 52107), (25, 52119), (26, 52128), (37, 52266), (39, 52272), (46, 52404), (47, 52413),

Gene: Fury_8 Start: 3988, Stop: 4560, Start Num: 13
Candidate Starts for Fury_8:
(6, 3898), (Start: 13 @3988 has 2 MA's), (24, 4105), (27, 4138), (28, 4156), (35, 4249), (38, 4279), (42, 4345), (43, 4348), (44, 4357), (48, 4426), (54, 4516), (56, 4552),

Gene: Halley_114 Start: 64951, Stop: 65439, Start Num: 12
Candidate Starts for Halley_114:
(3, 64840), (Start: 12 @64951 has 12 MA's), (24, 65065), (25, 65077), (42, 65272), (45, 65296), (47, 65350), (49, 65359),

Gene: Hedwig_65 Start: 42039, Stop: 42533, Start Num: 19
Candidate Starts for Hedwig_65:
(15, 42015), (Start: 19 @42039 has 2 MA's), (Start: 20 @42042 has 1 MA's), (24, 42087), (28, 42138), (31, 42177), (34, 42225), (35, 42228), (45, 42348), (48, 42405), (53, 42471),

Gene: JuicyJay_109 Start: 66076, Stop: 66564, Start Num: 12
Candidate Starts for JuicyJay_109:
(3, 65965), (Start: 12 @66076 has 12 MA's), (24, 66190), (25, 66202), (42, 66397), (45, 66421), (47, 66475), (49, 66484),

Gene: KashFlow_105 Start: 59832, Stop: 60320, Start Num: 12
Candidate Starts for KashFlow_105:
(3, 59721), (Start: 12 @59832 has 12 MA's), (24, 59946), (25, 59958), (42, 60153), (43, 60156), (47, 60231), (49, 60240),

Gene: Kiko_60 Start: 41418, Stop: 41984, Start Num: 11
Candidate Starts for Kiko_60:
(5, 41358), (7, 41385), (8, 41394), (Start: 11 @41418 has 1 MA's), (Start: 19 @41487 has 2 MA's), (24, 41538), (27, 41571), (48, 41856), (53, 41922),

Gene: LilSpotty_65 Start: 40695, Stop: 41180, Start Num: 16

Candidate Starts for LilSpotty_65:
(Start: 16 @40695 has 10 MA's), (21, 40722), (24, 40752), (25, 40764), (26, 40773), (27, 40785), (37, 40908), (43, 40980), (45, 41001), (46, 41046), (48, 41058), (55, 41160),

Gene: Lucky2013_105 Start: 59397, Stop: 59885, Start Num: 12
Candidate Starts for Lucky2013_105:
(3, 59286), (Start: 12 @59397 has 12 MA's), (24, 59511), (25, 59523), (42, 59718), (45, 59742), (47, 59796), (49, 59805),

Gene: MiaZeal_108 Start: 60028, Stop: 60516, Start Num: 12
Candidate Starts for MiaZeal_108:
(3, 59917), (Start: 12 @60028 has 12 MA's), (24, 60142), (25, 60154), (42, 60349), (43, 60352), (47, 60427), (49, 60436),

Gene: Misha28_66 Start: 41992, Stop: 42477, Start Num: 16
Candidate Starts for Misha28_66:
(Start: 16 @41992 has 10 MA's), (21, 42019), (24, 42049), (25, 42061), (26, 42070), (27, 42082), (37, 42205), (43, 42277), (45, 42298), (46, 42343), (48, 42355), (55, 42457),

Gene: Morkie_39 Start: 29556, Stop: 30053, Start Num: 18
Candidate Starts for Morkie_39:
(10, 29487), (Start: 18 @29556 has 1 MA's), (24, 29610), (25, 29622), (35, 29751), (37, 29778),

Gene: P1201_87 Start: 63768, Stop: 63322, Start Num: 17
Candidate Starts for P1201_87:
(17, 63768), (24, 63708), (25, 63696), (41, 63504), (45, 63468), (46, 63423), (51, 63387), (52, 63381),

Gene: Paella_220 Start: 101058, Stop: 101546, Start Num: 16
Candidate Starts for Paella_220:
(Start: 16 @101058 has 10 MA's), (29, 101175), (36, 101256), (45, 101373),

Gene: Piper2020_69 Start: 42887, Stop: 43372, Start Num: 16
Candidate Starts for Piper2020_69:
(Start: 16 @42887 has 10 MA's), (21, 42914), (24, 42944), (25, 42956), (26, 42965), (27, 42977), (37, 43100), (43, 43172), (45, 43193), (46, 43238), (48, 43250), (55, 43352),

Gene: Pleakley_8 Start: 3988, Stop: 4560, Start Num: 13
Candidate Starts for Pleakley_8:
(6, 3898), (Start: 13 @3988 has 2 MA's), (24, 4105), (27, 4138), (28, 4156), (35, 4249), (38, 4279), (42, 4345), (43, 4348), (44, 4357), (48, 4426), (54, 4516), (56, 4552),

Gene: Qui_220 Start: 101046, Stop: 101534, Start Num: 16
Candidate Starts for Qui_220:
(Start: 16 @101046 has 10 MA's), (29, 101163), (36, 101244), (45, 101361),

Gene: RayTheFireFly_68 Start: 43266, Stop: 43760, Start Num: 19
Candidate Starts for RayTheFireFly_68:
(Start: 19 @43266 has 2 MA's), (Start: 20 @43269 has 1 MA's), (24, 43314), (28, 43365), (35, 43455), (48, 43632), (53, 43698),

Gene: Redno2_104 Start: 60732, Stop: 61220, Start Num: 12
Candidate Starts for Redno2_104:

(3, 60621), (Start: 12 @60732 has 12 MA's), (24, 60846), (25, 60858), (42, 61053), (45, 61077), (47, 61131), (49, 61140),

Gene: Sparkdehlily_88 Start: 47836, Stop: 48324, Start Num: 16
Candidate Starts for Sparkdehlily_88:
(1, 47578), (2, 47599), (4, 47686), (Start: 16 @47836 has 10 MA's), (22, 47866), (24, 47893), (25, 47905), (26, 47914), (37, 48052), (39, 48058), (46, 48190), (47, 48199),

Gene: Squint_106 Start: 60147, Stop: 60635, Start Num: 12
Candidate Starts for Squint_106:
(3, 60036), (Start: 12 @60147 has 12 MA's), (24, 60261), (25, 60273), (42, 60468), (43, 60471), (47, 60546), (49, 60555),

Gene: Superphikiman_105 Start: 59238, Stop: 59726, Start Num: 12
Candidate Starts for Superphikiman_105:
(3, 59127), (Start: 12 @59238 has 12 MA's), (24, 59352), (25, 59364), (42, 59559), (43, 59562), (47, 59637), (49, 59646),

Gene: TDanisky_89 Start: 47836, Stop: 48324, Start Num: 16
Candidate Starts for TDanisky_89:
(1, 47578), (2, 47599), (4, 47686), (Start: 16 @47836 has 10 MA's), (22, 47866), (24, 47893), (25, 47905), (26, 47914), (37, 48052), (39, 48058), (46, 48190), (47, 48199),

Gene: TootsiePop_66 Start: 41992, Stop: 42477, Start Num: 16
Candidate Starts for TootsiePop_66:
(Start: 16 @41992 has 10 MA's), (21, 42019), (24, 42049), (25, 42061), (26, 42070), (27, 42082), (37, 42205), (43, 42277), (45, 42298), (46, 42343), (48, 42355), (55, 42457),