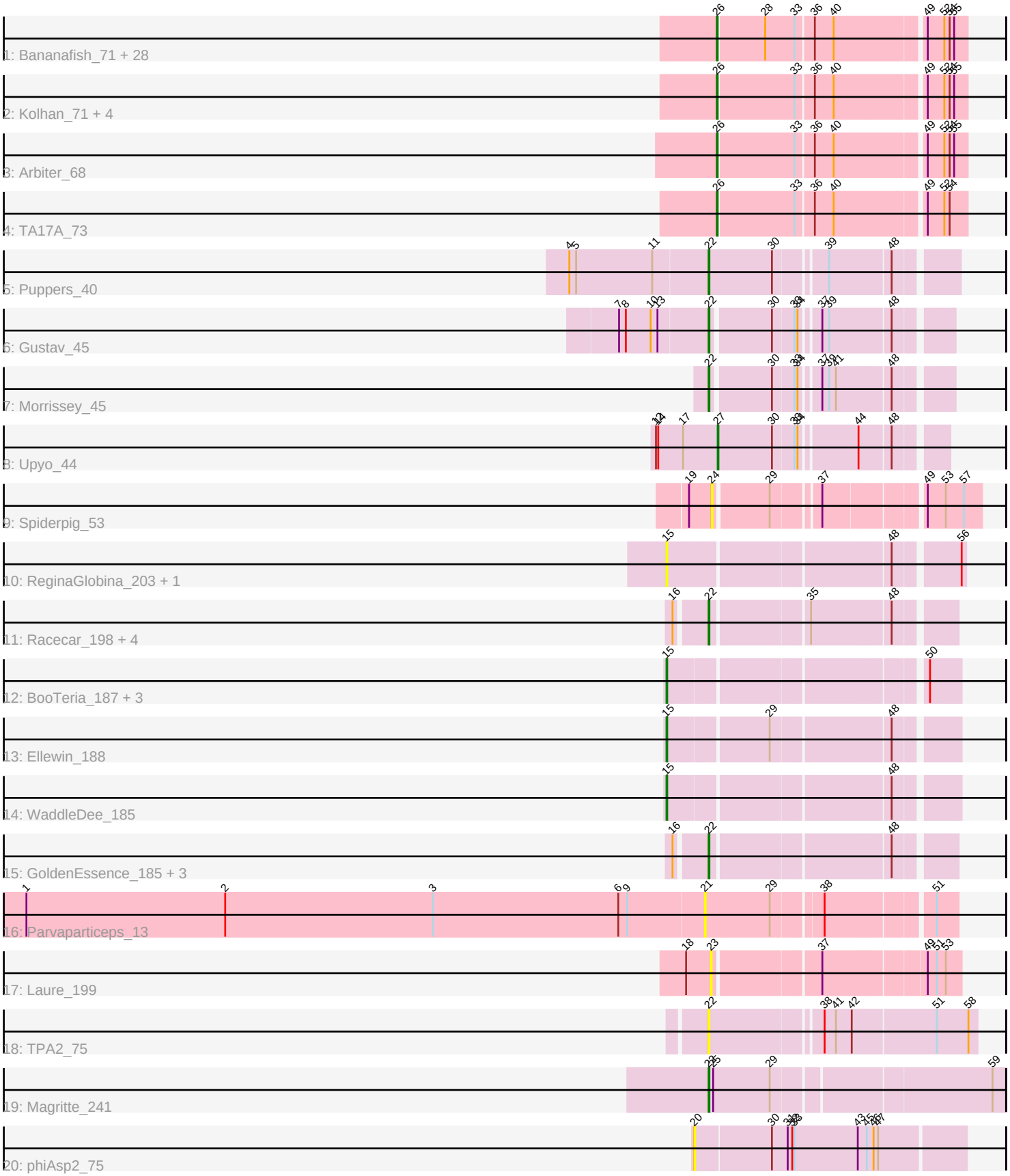
Pham 347617


1: Bananafish_71 + 28
2: Kolhan_71 + 4
3: Arbiter_68
4: TA17A_73
5: Puppers_40
6: Gustav_45
7: Morrissey_45
8: Upyo_44
9: Spiderpig_53
10: ReginaGlobina_203 + 1
11: Racecar_198 + 4
12: BooTeria_187 + 3
13: Ellewin_188
14: WaddleDee_185
15: GoldenEssence_185 + 3
16: Parvaparticeps_13
17: Laure_199
18: TPA2_75
19: Magritte_241
20: phiAsp2_75

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 347617 Report

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

Pham number 347617 has 63 members, 10 are drafts.

Phages represented in each track:
• Track 1 : Bananafish_71, Rhinoforte_70, Kheth_70, Tres_70, Lephleur_70, LilSmirk_70, Godines_71, Calamitous_71, Lars_71, FrenchFry_71, Glass_72, Tinciduntsolum_71, Blocker23_70, PrinceCharming_71, Holeinone_70, Hedgerow_70, MasterPo_71, Opia_71, Rosebush_69, Kaleb_70, Brownie5_70, Boyle_70, ItsyBitsy1_69, Eaglehorse_70, West99_70, Coffee_70, Allegro_70, Vic9_00070, LizLemon_70
• Track 2 : Kolhan_71, Ares_70, Faze9_69, Phantasmagoria_69, Sabella_70
• Track 3 : Arbiter_68
• Track 4 : TA17A_73
• Track 5 : Puppers_40
• Track 6 : Gustav_45
• Track 7 : Morrissey_45
• Track 8 : Upyo_44
• Track 9 : Spiderpig_53
• Track 10 : ReginaGlobina_203, LeoJr_199
• Track 11 : Racecar_198, Talia1610_198, FrostedClock_198, Bloom_201, Mimi_197
• Track 12 : BooTeria_187, Artu_189, Emmetator_192, DunneganBoMo_189
• Track 13 : Ellewin_188
• Track 14 : WaddleDee_185
• Track 15 : GoldenEssence_185, FloraSnap32_193, Phrampa_190, Patbob_195
• Track 16 : Parvaparticeps_13
• Track 17 : Laure_199
• Track 18 : TPA2_75
• Track 19 : Magritte_241
• Track 20 : phiAsp2_75

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

The start number called the most often in the published annotations is 26, it was called in 35 of the 53 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Allegro_70, Arbiter_68, Ares_70, Bananafish_71, Blocker23_70, Boyle_70, Brownie5_70, Calamitous_71, Coffee_70, Eaglehorse_70, Faze9_69, FrenchFry_71,

Glass_72, Godines_71, Hedgerow_70, Holeinone_70, ItsyBitsy1_69, Kaleb_70, Kheth_70, Kolhan_71, Lars_71, Lephleur_70, LilSmirk_70, LizLemon_70, MasterPo_71, Opia_71, Phantasmagoria_69, PrinceCharming_71, Rhinoforte_70, Rosebush_69, Sabella_70, TA17A_73, Tinciduntsolum_71, Tres_70, Vic9_00070, West99_70,

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

Genes that do not have the "Most Annotated" start:
• Artu_189, Bloom_201, BooTeria_187, DunneganBoMo_189, Ellewin_188, Emmetator_192, FloraSnap32_193, FrostedClock_198, GoldenEssence_185, Gustav_45, Laure_199, LeoJr_199, Magritte_241, Mimi_197, Morrissey_45, Parvaparticeps_13, Patbob_195, Phrampa_190, Puppers_40, Racecar_198, ReginaGlobina_203, Spiderpig_53, TPA2_75, Talia1610_198, Upyo_44, WaddleDee_185, phiAsp2_75,

Summary by start number:

Start 15:
• Found in 8 of 63 (12.7%) of genes in pham
• Manual Annotations of this start: 5 of 53
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Artu_189 (FC), BooTeria_187 (FC), DunneganBoMo_189 (FC), Ellewin_188 (FC), Emmetator_192 (FC), LeoJr_199 (FC), ReginaGlobina_203 (FC), WaddleDee_185 (FC),

Start 20:
• Found in 1 of 63 (1.6%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: phiAsp2_75 (singleton),

Start 21:
• Found in 1 of 63 (1.6%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Parvaparticeps_13 (UNK),

Start 22:
• Found in 14 of 63 (22.2%) of genes in pham
• Manual Annotations of this start: 12 of 53
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bloom_201 (FC), FloraSnap32_193 (FC), FrostedClock_198 (FC), GoldenEssence_185 (FC), Gustav_45 (CD), Magritte_241 (singleton), Mimi_197 (FC), Morrissey_45 (CD), Patbob_195 (FC), Phrampa_190 (FC), Puppers_40 (CD), Racecar_198 (FC), TPA2_75 (singleton), Talia1610_198 (FC),

Start 23:
• Found in 1 of 63 (1.6%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Laure_199 (UNK),

Start 24:
• Found in 1 of 63 (1.6%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Spiderpig_53 (EG),

Start 26:
• Found in 36 of 63 (57.1%) of genes in pham
• Manual Annotations of this start: 35 of 53
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Allegro_70 (B2), Arbiter_68 (B2), Ares_70 (B2), Bananafish_71 (B2), Blocker23_70 (B2), Boyle_70 (B2), Brownie5_70 (B2), Calamitous_71 (B2), Coffee_70 (B2), Eaglehorse_70 (B2), Faze9_69 (B2), FrenchFry_71 (B2), Glass_72 (B2), Godines_71 (B2), Hedgerow_70 (B2), Holeinone_70 (B2), ItsyBitsy1_69 (B2), Kaleb_70 (B2), Kheth_70 (B2), Kolhan_71 (B2), Lars_71 (B2), Lephleur_70 (B2), LilSmirk_70 (B2), LizLemon_70 (B2), MasterPo_71 (B2), Opia_71 (B2), Phantasmagoria_69 (B2), PrinceCharming_71 (B2), Rhinoforte_70 (B2), Rosebush_69 (B2), Sabella_70 (B2), TA17A_73 (B2), Tinciduntsolum_71 (B2), Tres_70 (B2), Vic9_00070 (B2), West99_70 (B2),

Start 27:
• Found in 1 of 63 (1.6%) of genes in pham
• Manual Annotations of this start: 1 of 53
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Upyo_44 (CD),

Summary by clusters:

There are 6 clusters represented in this pham: singleton, EG, CD, FC, B2, UNK,

Info for manual annotations of cluster B2:
•Start number 26 was manually annotated 35 times for cluster B2.

Info for manual annotations of cluster CD:
•Start number 22 was manually annotated 3 times for cluster CD.
•Start number 27 was manually annotated 1 time for cluster CD.

Info for manual annotations of cluster FC:
•Start number 15 was manually annotated 5 times for cluster FC.
•Start number 22 was manually annotated 8 times for cluster FC.

Gene Information:

Gene: Allegro_70 Start: 59019, Stop: 58717, Start Num: 26
Candidate Starts for Allegro_70:
(Start: 26 @59019 has 35 MA's), (28, 58959), (33, 58920), (36, 58899), (40, 58878), (49, 58767), (52, 58746), (54, 58740), (55, 58734),

Gene: Arbiter_68 Start: 59054, Stop: 58752, Start Num: 26
Candidate Starts for Arbiter_68:
(Start: 26 @59054 has 35 MA's), (33, 58955), (36, 58934), (40, 58913), (49, 58802), (52, 58781), (54, 58775), (55, 58769),

Gene: Ares_70 Start: 59025, Stop: 58723, Start Num: 26
Candidate Starts for Ares_70:
(Start: 26 @59025 has 35 MA's), (33, 58926), (36, 58905), (40, 58884), (49, 58773), (52, 58752), (54, 58746), (55, 58740),

Gene: Artu_189 Start: 142066, Stop: 142410, Start Num: 15
Candidate Starts for Artu_189:
(Start: 15 @142066 has 5 MA's), (50, 142372),

Gene: Bananafish_71 Start: 58955, Stop: 58653, Start Num: 26
Candidate Starts for Bananafish_71:
(Start: 26 @58955 has 35 MA's), (28, 58895), (33, 58856), (36, 58835), (40, 58814), (49, 58703), (52, 58682), (54, 58676), (55, 58670),

Gene: Blocker23_70 Start: 59020, Stop: 58718, Start Num: 26
Candidate Starts for Blocker23_70:
(Start: 26 @59020 has 35 MA's), (28, 58960), (33, 58921), (36, 58900), (40, 58879), (49, 58768), (52, 58747), (54, 58741), (55, 58735),

Gene: Bloom_201 Start: 137606, Stop: 137896, Start Num: 22
Candidate Starts for Bloom_201:
(16, 137570), (Start: 22 @137606 has 12 MA's), (35, 137723), (48, 137825),

Gene: BooTeria_187 Start: 141572, Stop: 141916, Start Num: 15
Candidate Starts for BooTeria_187:
(Start: 15 @141572 has 5 MA's), (50, 141878),

Gene: Boyle_70 Start: 59064, Stop: 58762, Start Num: 26
Candidate Starts for Boyle_70:
(Start: 26 @59064 has 35 MA's), (28, 59004), (33, 58965), (36, 58944), (40, 58923), (49, 58812), (52, 58791), (54, 58785), (55, 58779),

Gene: Brownie5_70 Start: 59065, Stop: 58763, Start Num: 26
Candidate Starts for Brownie5_70:
(Start: 26 @59065 has 35 MA's), (28, 59005), (33, 58966), (36, 58945), (40, 58924), (49, 58813), (52, 58792), (54, 58786), (55, 58780),

Gene: Calamitous_71 Start: 58954, Stop: 58652, Start Num: 26
Candidate Starts for Calamitous_71:
(Start: 26 @58954 has 35 MA's), (28, 58894), (33, 58855), (36, 58834), (40, 58813), (49, 58702), (52, 58681), (54, 58675), (55, 58669),

Gene: Coffee_70 Start: 59058, Stop: 58756, Start Num: 26
Candidate Starts for Coffee_70:
(Start: 26 @59058 has 35 MA's), (28, 58998), (33, 58959), (36, 58938), (40, 58917), (49, 58806), (52, 58785), (54, 58779), (55, 58773),

Gene: DunneganBoMo_189 Start: 141037, Stop: 141381, Start Num: 15
Candidate Starts for DunneganBoMo_189:
(Start: 15 @141037 has 5 MA's), (50, 141343),

Gene: Eaglehorse_70 Start: 58944, Stop: 58642, Start Num: 26
Candidate Starts for Eaglehorse_70:
(Start: 26 @58944 has 35 MA's), (28, 58884), (33, 58845), (36, 58824), (40, 58803), (49, 58692), (52, 58671), (54, 58665), (55, 58659),

Gene: Ellewin_188 Start: 140305, Stop: 140649, Start Num: 15
Candidate Starts for Ellewin_188:
(Start: 15 @140305 has 5 MA's), (29, 140428), (48, 140575),

Gene: Emmetator_192 Start: 140436, Stop: 140780, Start Num: 15
Candidate Starts for Emmetator_192:
(Start: 15 @140436 has 5 MA's), (50, 140742),

Gene: Faze9_69 Start: 59082, Stop: 58780, Start Num: 26
Candidate Starts for Faze9_69:
(Start: 26 @59082 has 35 MA's), (33, 58983), (36, 58962), (40, 58941), (49, 58830), (52, 58809), (54, 58803), (55, 58797),

Gene: FloraSnap32_193 Start: 136494, Stop: 136784, Start Num: 22
Candidate Starts for FloraSnap32_193:
(16, 136458), (Start: 22 @136494 has 12 MA's), (48, 136713),

Gene: FrenchFry_71 Start: 59069, Stop: 58767, Start Num: 26
Candidate Starts for FrenchFry_71:
(Start: 26 @59069 has 35 MA's), (28, 59009), (33, 58970), (36, 58949), (40, 58928), (49, 58817), (52, 58796), (54, 58790), (55, 58784),

Gene: FrostedClock_198 Start: 137527, Stop: 137817, Start Num: 22
Candidate Starts for FrostedClock_198:
(16, 137491), (Start: 22 @137527 has 12 MA's), (35, 137644), (48, 137746),

Gene: Glass_72 Start: 59070, Stop: 58768, Start Num: 26
Candidate Starts for Glass_72:
(Start: 26 @59070 has 35 MA's), (28, 59010), (33, 58971), (36, 58950), (40, 58929), (49, 58818), (52, 58797), (54, 58791), (55, 58785),

Gene: Godines_71 Start: 59323, Stop: 59021, Start Num: 26
Candidate Starts for Godines_71:
(Start: 26 @59323 has 35 MA's), (28, 59263), (33, 59224), (36, 59203), (40, 59182), (49, 59071), (52, 59050), (54, 59044), (55, 59038),

Gene: GoldenEssence_185 Start: 131868, Stop: 132158, Start Num: 22
Candidate Starts for GoldenEssence_185:
(16, 131832), (Start: 22 @131868 has 12 MA's), (48, 132087),

Gene: Gustav_45 Start: 33684, Stop: 33406, Start Num: 22
Candidate Starts for Gustav_45:
(7, 33798), (8, 33789), (10, 33756), (13, 33747), (Start: 22 @33684 has 12 MA's), (30, 33609), (33, 33582), (34, 33579), (37, 33558), (39, 33549), (48, 33471),

Gene: Hedgerow_70 Start: 59020, Stop: 58718, Start Num: 26
Candidate Starts for Hedgerow_70:
(Start: 26 @59020 has 35 MA's), (28, 58960), (33, 58921), (36, 58900), (40, 58879), (49, 58768), (52, 58747), (54, 58741), (55, 58735),

Gene: Holeinone_70 Start: 58925, Stop: 58623, Start Num: 26
Candidate Starts for Holeinone_70:
(Start: 26 @58925 has 35 MA's), (28, 58865), (33, 58826), (36, 58805), (40, 58784), (49, 58673), (52, 58652), (54, 58646), (55, 58640),

Gene: ItsyBitsy1_69 Start: 59161, Stop: 58859, Start Num: 26
Candidate Starts for ItsyBitsy1_69:
(Start: 26 @59161 has 35 MA's), (28, 59101), (33, 59062), (36, 59041), (40, 59020), (49, 58909), (52, 58888), (54, 58882), (55, 58876),

Gene: Kaleb_70 Start: 59076, Stop: 58774, Start Num: 26
Candidate Starts for Kaleb_70:
(Start: 26 @59076 has 35 MA's), (28, 59016), (33, 58977), (36, 58956), (40, 58935), (49, 58824), (52, 58803), (54, 58797), (55, 58791),

Gene: Kheth_70 Start: 58987, Stop: 58685, Start Num: 26
Candidate Starts for Kheth_70:
(Start: 26 @58987 has 35 MA's), (28, 58927), (33, 58888), (36, 58867), (40, 58846), (49, 58735), (52, 58714), (54, 58708), (55, 58702),

Gene: Kolhan_71 Start: 58964, Stop: 58662, Start Num: 26
Candidate Starts for Kolhan_71:
(Start: 26 @58964 has 35 MA's), (33, 58865), (36, 58844), (40, 58823), (49, 58712), (52, 58691), (54, 58685), (55, 58679),

Gene: Lars_71 Start: 59048, Stop: 58746, Start Num: 26
Candidate Starts for Lars_71:
(Start: 26 @59048 has 35 MA's), (28, 58988), (33, 58949), (36, 58928), (40, 58907), (49, 58796), (52, 58775), (54, 58769), (55, 58763),

Gene: Laure_199 Start: 125992, Stop: 126291, Start Num: 23
Candidate Starts for Laure_199:
(18, 125962), (23, 125992), (37, 126121), (49, 126250), (51, 126262), (53, 126274),

Gene: LeoJr_199 Start: 136061, Stop: 136414, Start Num: 15
Candidate Starts for LeoJr_199:
(Start: 15 @136061 has 5 MA's), (48, 136334), (56, 136409),

Gene: Lephleur_70 Start: 58910, Stop: 58608, Start Num: 26
Candidate Starts for Lephleur_70:
(Start: 26 @58910 has 35 MA's), (28, 58850), (33, 58811), (36, 58790), (40, 58769), (49, 58658), (52, 58637), (54, 58631), (55, 58625),

Gene: LilSmirk_70 Start: 58947, Stop: 58645, Start Num: 26
Candidate Starts for LilSmirk_70:
(Start: 26 @58947 has 35 MA's), (28, 58887), (33, 58848), (36, 58827), (40, 58806), (49, 58695), (52, 58674), (54, 58668), (55, 58662),

Gene: LizLemon_70 Start: 59075, Stop: 58773, Start Num: 26
Candidate Starts for LizLemon_70:
(Start: 26 @59075 has 35 MA's), (28, 59015), (33, 58976), (36, 58955), (40, 58934), (49, 58823), (52, 58802), (54, 58796), (55, 58790),

Gene: Magritte_241 Start: 125100, Stop: 125468, Start Num: 22
Candidate Starts for Magritte_241:
(Start: 22 @125100 has 12 MA's), (25, 125106), (29, 125181), (59, 125451),

Gene: MasterPo_71 Start: 58942, Stop: 58640, Start Num: 26
Candidate Starts for MasterPo_71:
(Start: 26 @58942 has 35 MA's), (28, 58882), (33, 58843), (36, 58822), (40, 58801), (49, 58690), (52, 58669), (54, 58663), (55, 58657),

Gene: Mimi_197 Start: 137277, Stop: 137567, Start Num: 22
Candidate Starts for Mimi_197:
(16, 137241), (Start: 22 @137277 has 12 MA's), (35, 137394), (48, 137496),

Gene: Morrissey_45 Start: 34634, Stop: 34356, Start Num: 22
Candidate Starts for Morrissey_45:
(Start: 22 @34634 has 12 MA's), (30, 34559), (33, 34532), (34, 34529), (37, 34508), (39, 34499), (41, 34490), (48, 34421),

Gene: Opia_71 Start: 58968, Stop: 58666, Start Num: 26
Candidate Starts for Opia_71:
(Start: 26 @58968 has 35 MA's), (28, 58908), (33, 58869), (36, 58848), (40, 58827), (49, 58716), (52, 58695), (54, 58689), (55, 58683),

Gene: Parvaparticeps_13 Start: 8726, Stop: 9028, Start Num: 21
Candidate Starts for Parvaparticeps_13:
(1, 7829), (2, 8093), (3, 8369), (6, 8615), (9, 8627), (21, 8726), (29, 8810), (38, 8870), (51, 9002),

Gene: Patbob_195 Start: 137664, Stop: 137954, Start Num: 22
Candidate Starts for Patbob_195:
(16, 137628), (Start: 22 @137664 has 12 MA's), (48, 137883),

Gene: Phantasmagoria_69 Start: 58957, Stop: 58655, Start Num: 26
Candidate Starts for Phantasmagoria_69:
(Start: 26 @58957 has 35 MA's), (33, 58858), (36, 58837), (40, 58816), (49, 58705), (52, 58684), (54, 58678), (55, 58672),

Gene: Phrampa_190 Start: 137032, Stop: 137322, Start Num: 22
Candidate Starts for Phrampa_190:
(16, 136996), (Start: 22 @137032 has 12 MA's), (48, 137251),

Gene: PrinceCharming_71 Start: 58997, Stop: 58695, Start Num: 26
Candidate Starts for PrinceCharming_71:
(Start: 26 @58997 has 35 MA's), (28, 58937), (33, 58898), (36, 58877), (40, 58856), (49, 58745), (52, 58724), (54, 58718), (55, 58712),

Gene: Puppers_40 Start: 32033, Stop: 31737, Start Num: 22
Candidate Starts for Puppers_40:

(4, 32213), (5, 32204), (11, 32105), (Start: 22 @32033 has 12 MA's), (30, 31949), (39, 31889), (48, 31811),

Gene: Racecar_198 Start: 137389, Stop: 137679, Start Num: 22
Candidate Starts for Racecar_198:
(16, 137353), (Start: 22 @137389 has 12 MA's), (35, 137506), (48, 137608),

Gene: ReginaGlobina_203 Start: 137344, Stop: 137697, Start Num: 15
Candidate Starts for ReginaGlobina_203:
(Start: 15 @137344 has 5 MA's), (48, 137617), (56, 137692),

Gene: Rhinoforte_70 Start: 58995, Stop: 58693, Start Num: 26
Candidate Starts for Rhinoforte_70:
(Start: 26 @58995 has 35 MA's), (28, 58935), (33, 58896), (36, 58875), (40, 58854), (49, 58743), (52, 58722), (54, 58716), (55, 58710),

Gene: Rosebush_69 Start: 59062, Stop: 58760, Start Num: 26
Candidate Starts for Rosebush_69:
(Start: 26 @59062 has 35 MA's), (28, 59002), (33, 58963), (36, 58942), (40, 58921), (49, 58810), (52, 58789), (54, 58783), (55, 58777),

Gene: Sabella_70 Start: 58897, Stop: 58595, Start Num: 26
Candidate Starts for Sabella_70:
(Start: 26 @58897 has 35 MA's), (33, 58798), (36, 58777), (40, 58756), (49, 58645), (52, 58624), (54, 58618), (55, 58612),

Gene: Spiderpig_53 Start: 36999, Stop: 36685, Start Num: 24
Candidate Starts for Spiderpig_53:
(19, 37029), (24, 36999), (29, 36930), (37, 36876), (49, 36756), (53, 36732), (57, 36708),

Gene: TA17A_73 Start: 58905, Stop: 58603, Start Num: 26
Candidate Starts for TA17A_73:
(Start: 26 @58905 has 35 MA's), (33, 58806), (36, 58785), (40, 58764), (49, 58653), (52, 58632), (54, 58626),

Gene: TPA2_75 Start: 59427, Stop: 59762, Start Num: 22
Candidate Starts for TPA2_75:
(Start: 22 @59427 has 12 MA's), (38, 59565), (41, 59580), (42, 59601), (51, 59709), (58, 59751),

Gene: Talia1610_198 Start: 137685, Stop: 137975, Start Num: 22
Candidate Starts for Talia1610_198:
(16, 137649), (Start: 22 @137685 has 12 MA's), (35, 137802), (48, 137904),

Gene: Tinciduntsolum_71 Start: 59064, Stop: 58762, Start Num: 26
Candidate Starts for Tinciduntsolum_71:
(Start: 26 @59064 has 35 MA's), (28, 59004), (33, 58965), (36, 58944), (40, 58923), (49, 58812), (52, 58791), (54, 58785), (55, 58779),

Gene: Tres_70 Start: 58918, Stop: 58616, Start Num: 26
Candidate Starts for Tres_70:
(Start: 26 @58918 has 35 MA's), (28, 58858), (33, 58819), (36, 58798), (40, 58777), (49, 58666), (52, 58645), (54, 58639), (55, 58633),

Gene: Upyo_44 Start: 33729, Stop: 33457, Start Num: 27
Candidate Starts for Upyo_44:
(12, 33810), (14, 33807), (17, 33774), (Start: 27 @33729 has 1 MA's), (30, 33657), (33, 33630), (34, 33627), (44, 33558), (48, 33519),

Gene: Vic9_00070 Start: 59761, Stop: 59459, Start Num: 26
Candidate Starts for Vic9_00070:
(Start: 26 @59761 has 35 MA's), (28, 59701), (33, 59662), (36, 59641), (40, 59620), (49, 59509), (52, 59488), (54, 59482), (55, 59476),

Gene: WaddleDee_185 Start: 139500, Stop: 139844, Start Num: 15
Candidate Starts for WaddleDee_185:
(Start: 15 @139500 has 5 MA's), (48, 139770),

Gene: West99_70 Start: 59095, Stop: 58793, Start Num: 26
Candidate Starts for West99_70:
(Start: 26 @59095 has 35 MA's), (28, 59035), (33, 58996), (36, 58975), (40, 58954), (49, 58843), (52, 58822), (54, 58816), (55, 58810),

Gene: phiAsp2_75 Start: 57707, Stop: 58057, Start Num: 20
Candidate Starts for phiAsp2_75:
(20, 57707), (30, 57806), (31, 57827), (32, 57833), (33, 57836), (43, 57920), (45, 57932), (46, 57941), (47, 57947),