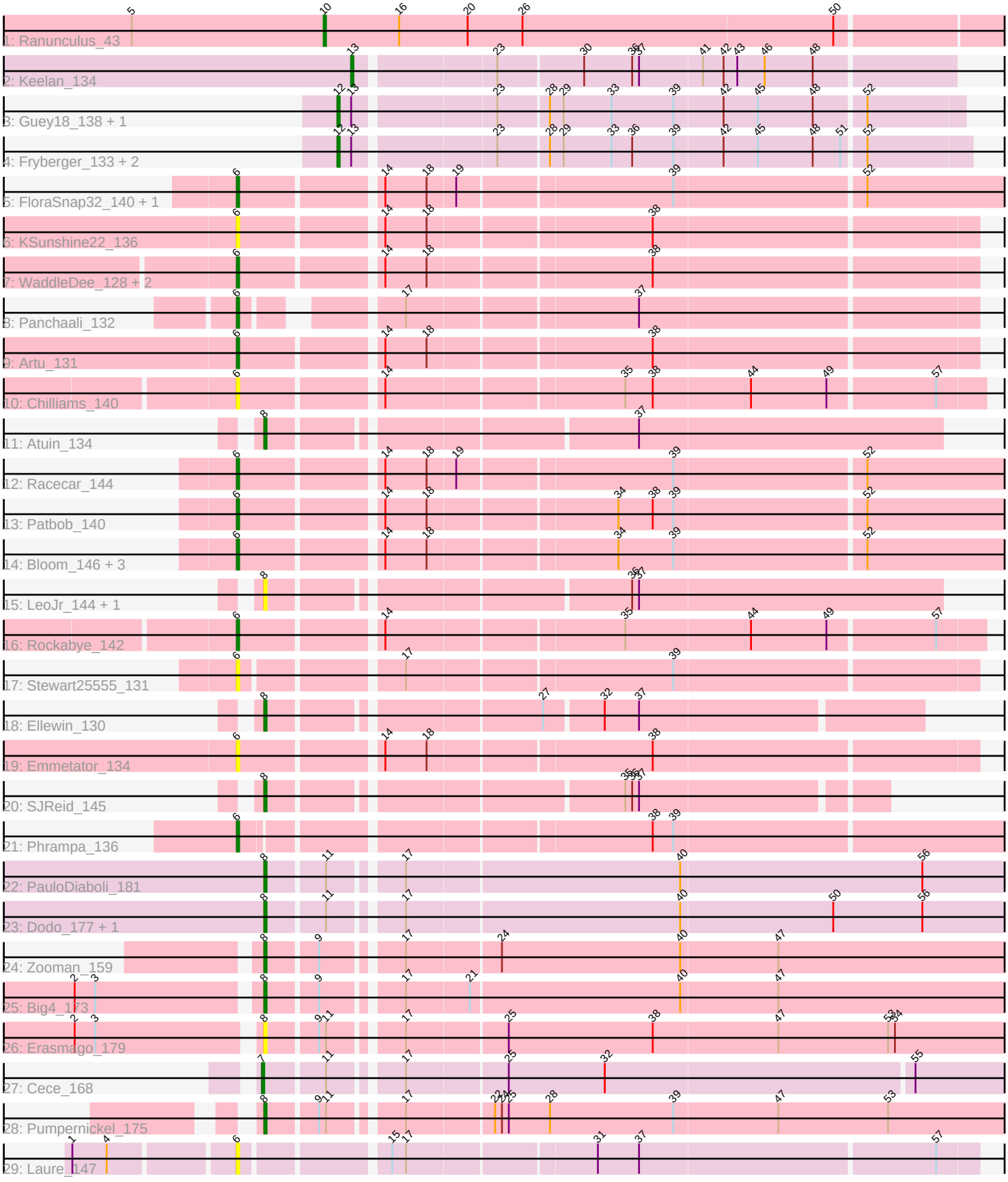
Pham 347799


1: Ranunculus_43
2: Keelan_134
3: Guey18_138 + 1
4: Fryberger_133 + 2
5: FloraSnap32_140 + 1
6: KSunshine22_136
7: WaddleDee_128 + 2
8: Panchaali_132
9: Artu_131
10: Chilliams_140
11: Atuin_134
12: Racecar_144
13: Patbob_140
14: Bloom_146 + 3
15: LeoJr_144 + 1
16: Rockabye_142
17: Stewart25555_131
18: Ellewin_130
19: Emmetator_134
20: SJReid_145
21: Phrampa_136
22: PauloDiaboli_181
23: Dodo_177 + 1
24: Zooman_159
25: Big4_173
26: Erasmago_179
27: Cece_168
28: Pumpernickel_175
29: Laure_147

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 347799 Report

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

Pham number 347799 has 40 members, 9 are drafts.

Phages represented in each track:
- Track 1 : Ranunculus_43
- Track 2 : Keelan_134
- Track 3 : Guey18_138, Ziko_137
- Track 4 : Fryberger_133, Volt_138, Ronaldo_135
- Track 5 : FloraSnap32_140, GoldenEssence_129
- Track 6 : KSunshine22_136
- Track 7 : WaddleDee_128, BooTeria_131, DunneganBoMo_130
- Track 8 : Panchaali_132
- Track 9 : Artu_131
- Track 10 : Chilliams_140
- Track 11 : Atuin_134
- Track 12 : Racecar_144
- Track 13 : Patbob_140
- Track 14 : Bloom_146, Talia1610_145, FrostedClock_143, Mimi_143
- Track 15 : LeoJr_144, ReginaGlobina_143
- Track 16 : Rockabye_142
- Track 17 : Stewart25555_131
- Track 18 : Ellewin_130
- Track 19 : Emmetator_134
- Track 20 : SJReid_145
- Track 21 : Phrampa_136
- Track 22 : PauloDiaboli_181
- Track 23 : Dodo_177, A3Wally_182
- Track 24 : Zooman_159
- Track 25 : Big4_173
- Track 26 : Erasmago_179
- Track 27 : Cece_168
- Track 28 : Pumpernickel_175
- Track 29 : Laure_147

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

The start number called the most often in the published annotations is 6, it was called in 14 of the 31 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Artu_131, Bloom_146, BooTeria_131, Chilliams_140, DunneganBoMo_130, Emmetator_134, FloraSnap32_140, FrostedClock_143, GoldenEssence_129, KSunshine22_136, Laure_147, Mimi_143, Panchaali_132, Patbob_140, Phrampa_136, Racecar_144, Rockabye_142, Stewart25555_131, Talia1610_145, WaddleDee_128,

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

Genes that do not have the "Most Annotated" start:
• A3Wally_182, Atuin_134, Big4_173, Cece_168, Dodo_177, Ellewin_130, Erasmago_179, Fryberger_133, Guey18_138, Keelan_134, LeoJr_144, PauloDiaboli_181, Pumpernickel_175, Ranunculus_43, ReginaGlobina_143, Ronaldo_135, SJReid_145, Volt_138, Ziko_137, Zooman_159,

Summary by start number:

Start 6:
• Found in 20 of 40 (50.0%) of genes in pham
• Manual Annotations of this start: 14 of 31
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Artu_131 (FC), Bloom_146 (FC), BooTeria_131 (FC), Chilliams_140 (FC), DunneganBoMo_130 (FC), Emmetator_134 (FC), FloraSnap32_140 (FC), FrostedClock_143 (FC), GoldenEssence_129 (FC), KSunshine22_136 (FC), Laure_147 (UNK), Mimi_143 (FC), Panchaali_132 (FC), Patbob_140 (FC), Phrampa_136 (FC), Racecar_144 (FC), Rockabye_142 (FC), Stewart25555_131 (FC), Talia1610_145 (FC), WaddleDee_128 (FC),

Start 7:
• Found in 1 of 40 (2.5%) of genes in pham
• Manual Annotations of this start: 1 of 31
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cece_168 (GD3),

Start 8:
• Found in 12 of 40 (30.0%) of genes in pham
• Manual Annotations of this start: 9 of 31
• Called 100.0% of time when present
• Phage (with cluster) where this start called: A3Wally_182 (GD1), Atuin_134 (FC), Big4_173 (GD2), Dodo_177 (GD1), Ellewin_130 (FC), Erasmago_179 (GD2), LeoJr_144 (FC), PauloDiaboli_181 (GD1), Pumpernickel_175 (GD4), ReginaGlobina_143 (FC), SJReid_145 (FC), Zooman_159 (GD2),

Start 10:
• Found in 1 of 40 (2.5%) of genes in pham
• Manual Annotations of this start: 1 of 31
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ranunculus_43 (AP),

Start 12:
• Found in 5 of 40 (12.5%) of genes in pham

• Manual Annotations of this start: 5 of 31
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Fryberger_133 (DP), Guey18_138 (DP), Ronaldo_135 (DP), Volt_138 (DP), Ziko_137 (DP),

Start 13:
• Found in 6 of 40 (15.0%) of genes in pham
• Manual Annotations of this start: 1 of 31
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Keelan_134 (DP),

Summary by clusters:

There are 8 clusters represented in this pham: GD1, GD2, GD3, GD4, AP, FC, UNK, DP,

Info for manual annotations of cluster AP:
•Start number 10 was manually annotated 1 time for cluster AP.

Info for manual annotations of cluster DP:
•Start number 12 was manually annotated 5 times for cluster DP.
•Start number 13 was manually annotated 1 time for cluster DP.

Info for manual annotations of cluster FC:
•Start number 6 was manually annotated 14 times for cluster FC.
•Start number 8 was manually annotated 3 times for cluster FC.

Info for manual annotations of cluster GD1:
•Start number 8 was manually annotated 3 times for cluster GD1.

Info for manual annotations of cluster GD2:
•Start number 8 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:
•Start number 7 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:
•Start number 8 was manually annotated 1 time for cluster GD4.

Gene Information:

Gene: A3Wally_182 Start: 100432, Stop: 100740, Start Num: 8
Candidate Starts for A3Wally_182:
(Start: 8 @100432 has 9 MA's), (11, 100456), (17, 100483), (40, 100600), (50, 100666), (56, 100705),

Gene: Artu_131 Start: 94411, Stop: 94716, Start Num: 6
Candidate Starts for Artu_131:
(Start: 6 @94411 has 14 MA's), (14, 94468), (18, 94486), (38, 94579),

Gene: Atuin_134 Start: 97267, Stop: 97545, Start Num: 8

Candidate Starts for Atuin_134:
(Start: 8 @97267 has 9 MA's), (37, 97414),

Gene: Big4_173 Start: 97536, Stop: 97844, Start Num: 8
Candidate Starts for Big4_173:
(2, 97461), (3, 97470), (Start: 8 @97536 has 9 MA's), (9, 97557), (17, 97587), (21, 97614), (40, 97704), (47, 97746),

Gene: Bloom_146 Start: 97813, Stop: 98154, Start Num: 6
Candidate Starts for Bloom_146:
(Start: 6 @97813 has 14 MA's), (14, 97870), (18, 97888), (34, 97966), (39, 97990), (52, 98071),

Gene: BooTeria_131 Start: 94554, Stop: 94859, Start Num: 6
Candidate Starts for BooTeria_131:
(Start: 6 @94554 has 14 MA's), (14, 94611), (18, 94629), (38, 94722),

Gene: Cece_168 Start: 102563, Stop: 102877, Start Num: 7
Candidate Starts for Cece_168:
(Start: 7 @102563 has 1 MA's), (11, 102587), (17, 102614), (25, 102656), (32, 102698), (55, 102830),

Gene: Chilliams_140 Start: 88443, Stop: 88751, Start Num: 6
Candidate Starts for Chilliams_140:
(Start: 6 @88443 has 14 MA's), (14, 88500), (35, 88599), (38, 88611), (44, 88653), (49, 88686), (57, 88731),

Gene: Dodo_177 Start: 100044, Stop: 100352, Start Num: 8
Candidate Starts for Dodo_177:
(Start: 8 @100044 has 9 MA's), (11, 100068), (17, 100095), (40, 100212), (50, 100278), (56, 100317),

Gene: DunneganBoMo_130 Start: 93823, Stop: 94128, Start Num: 6
Candidate Starts for DunneganBoMo_130:
(Start: 6 @93823 has 14 MA's), (14, 93880), (18, 93898), (38, 93991),

Gene: Ellewin_130 Start: 93437, Stop: 93703, Start Num: 8
Candidate Starts for Ellewin_130:
(Start: 8 @93437 has 9 MA's), (27, 93545), (32, 93569), (37, 93584),

Gene: Emmetator_134 Start: 93740, Stop: 94045, Start Num: 6
Candidate Starts for Emmetator_134:
(Start: 6 @93740 has 14 MA's), (14, 93797), (18, 93815), (38, 93908),

Gene: Erasmago_179 Start: 97859, Stop: 98167, Start Num: 8
Candidate Starts for Erasmago_179:
(2, 97784), (3, 97793), (Start: 8 @97859 has 9 MA's), (9, 97880), (11, 97883), (17, 97910), (25, 97952), (38, 98015), (47, 98069), (53, 98117), (54, 98120),

Gene: FloraSnap32_140 Start: 96628, Stop: 96969, Start Num: 6
Candidate Starts for FloraSnap32_140:
(Start: 6 @96628 has 14 MA's), (14, 96685), (18, 96703), (19, 96715), (39, 96805), (52, 96886),

Gene: FrostedClock_143 Start: 97810, Stop: 98151, Start Num: 6
Candidate Starts for FrostedClock_143:
(Start: 6 @97810 has 14 MA's), (14, 97867), (18, 97885), (34, 97963), (39, 97987), (52, 98068),

Gene: Fryberger_133 Start: 63596, Stop: 63859, Start Num: 12
Candidate Starts for Fryberger_133:
(Start: 12 @63596 has 5 MA's), (Start: 13 @63602 has 1 MA's), (23, 63659), (28, 63680), (29, 63686), (33, 63707), (36, 63716), (39, 63734), (42, 63755), (45, 63770), (48, 63794), (51, 63806), (52, 63815),

Gene: GoldenEssence_129 Start: 91511, Stop: 91852, Start Num: 6
Candidate Starts for GoldenEssence_129:
(Start: 6 @91511 has 14 MA's), (14, 91568), (18, 91586), (19, 91598), (39, 91688), (52, 91769),

Gene: Guey18_138 Start: 64810, Stop: 65070, Start Num: 12
Candidate Starts for Guey18_138:
(Start: 12 @64810 has 5 MA's), (Start: 13 @64816 has 1 MA's), (23, 64873), (28, 64894), (29, 64900), (33, 64921), (39, 64948), (42, 64969), (45, 64984), (48, 65008), (52, 65029),

Gene: KSunshine22_136 Start: 94974, Stop: 95279, Start Num: 6
Candidate Starts for KSunshine22_136:
(Start: 6 @94974 has 14 MA's), (14, 95031), (18, 95049), (38, 95142),

Gene: Keelan_134 Start: 64318, Stop: 64569, Start Num: 13
Candidate Starts for Keelan_134:
(Start: 13 @64318 has 1 MA's), (23, 64375), (30, 64411), (36, 64432), (37, 64435), (41, 64462), (42, 64471), (43, 64477), (46, 64489), (48, 64510),

Gene: Laure_147 Start: 91171, Stop: 91473, Start Num: 6
Candidate Starts for Laure_147:
(1, 91105), (4, 91120), (Start: 6 @91171 has 14 MA's), (15, 91228), (17, 91234), (31, 91312), (37, 91330), (57, 91456),

Gene: LeoJr_144 Start: 97868, Stop: 98146, Start Num: 8
Candidate Starts for LeoJr_144:
(Start: 8 @97868 has 9 MA's), (36, 98012), (37, 98015),

Gene: Mimi_143 Start: 96878, Stop: 97219, Start Num: 6
Candidate Starts for Mimi_143:
(Start: 6 @96878 has 14 MA's), (14, 96935), (18, 96953), (34, 97031), (39, 97055), (52, 97136),

Gene: Panchaali_132 Start: 94170, Stop: 94463, Start Num: 6
Candidate Starts for Panchaali_132:
(Start: 6 @94170 has 14 MA's), (17, 94224), (37, 94320),

Gene: Patbob_140 Start: 97640, Stop: 97981, Start Num: 6
Candidate Starts for Patbob_140:
(Start: 6 @97640 has 14 MA's), (14, 97697), (18, 97715), (34, 97793), (38, 97808), (39, 97817), (52, 97898),

Gene: PauloDiaboli_181 Start: 98479, Stop: 98787, Start Num: 8
Candidate Starts for PauloDiaboli_181:
(Start: 8 @98479 has 9 MA's), (11, 98503), (17, 98530), (40, 98647), (56, 98752),

Gene: Phrampa_136 Start: 99174, Stop: 99506, Start Num: 6
Candidate Starts for Phrampa_136:
(Start: 6 @99174 has 14 MA's), (38, 99339), (39, 99348),

Gene: Pumpernickel_175 Start: 100142, Stop: 100450, Start Num: 8
Candidate Starts for Pumpernickel_175:
(Start: 8 @100142 has 9 MA's), (9, 100163), (11, 100166), (17, 100193), (22, 100229), (24, 100232), (25, 100235), (28, 100253), (39, 100307), (47, 100352), (53, 100400),

Gene: Racecar_144 Start: 97866, Stop: 98207, Start Num: 6
Candidate Starts for Racecar_144:
(Start: 6 @97866 has 14 MA's), (14, 97923), (18, 97941), (19, 97953), (39, 98043), (52, 98124),

Gene: Ranunculus_43 Start: 38123, Stop: 38419, Start Num: 10
Candidate Starts for Ranunculus_43:
(5, 38039), (Start: 10 @38123 has 1 MA's), (16, 38156), (20, 38186), (26, 38210), (50, 38345),

Gene: ReginaGlobina_143 Start: 98090, Stop: 98368, Start Num: 8
Candidate Starts for ReginaGlobina_143:
(Start: 8 @98090 has 9 MA's), (36, 98234), (37, 98237),

Gene: Rockabye_142 Start: 89730, Stop: 90038, Start Num: 6
Candidate Starts for Rockabye_142:
(Start: 6 @89730 has 14 MA's), (14, 89787), (35, 89886), (44, 89940), (49, 89973), (57, 90018),

Gene: Ronaldo_135 Start: 64501, Stop: 64764, Start Num: 12
Candidate Starts for Ronaldo_135:
(Start: 12 @64501 has 5 MA's), (Start: 13 @64507 has 1 MA's), (23, 64564), (28, 64585), (29, 64591), (33, 64612), (36, 64621), (39, 64639), (42, 64660), (45, 64675), (48, 64699), (51, 64711), (52, 64720),

Gene: SJReid_145 Start: 88739, Stop: 88987, Start Num: 8
Candidate Starts for SJReid_145:
(Start: 8 @88739 has 9 MA's), (35, 88880), (36, 88883), (37, 88886),

Gene: Stewart25555_131 Start: 94819, Stop: 95121, Start Num: 6
Candidate Starts for Stewart25555_131:
(Start: 6 @94819 has 14 MA's), (17, 94882), (39, 94993),

Gene: Talia1610_145 Start: 97881, Stop: 98222, Start Num: 6
Candidate Starts for Talia1610_145:
(Start: 6 @97881 has 14 MA's), (14, 97938), (18, 97956), (34, 98034), (39, 98058), (52, 98139),

Gene: Volt_138 Start: 64665, Stop: 64928, Start Num: 12
Candidate Starts for Volt_138:
(Start: 12 @64665 has 5 MA's), (Start: 13 @64671 has 1 MA's), (23, 64728), (28, 64749), (29, 64755), (33, 64776), (36, 64785), (39, 64803), (42, 64824), (45, 64839), (48, 64863), (51, 64875), (52, 64884),

Gene: WaddleDee_128 Start: 93009, Stop: 93314, Start Num: 6
Candidate Starts for WaddleDee_128:
(Start: 6 @93009 has 14 MA's), (14, 93066), (18, 93084), (38, 93177),

Gene: Ziko_137 Start: 64772, Stop: 65032, Start Num: 12
Candidate Starts for Ziko_137:
(Start: 12 @64772 has 5 MA's), (Start: 13 @64778 has 1 MA's), (23, 64835), (28, 64856), (29, 64862), (33, 64883), (39, 64910), (42, 64931), (45, 64946), (48, 64970), (52, 64991),

Gene: Zooman_159 Start: 94719, Stop: 95027, Start Num: 8
Candidate Starts for Zooman_159:
(Start: 8 @94719 has 9 MA's), (9, 94740), (17, 94770), (24, 94809), (40, 94887), (47, 94929),