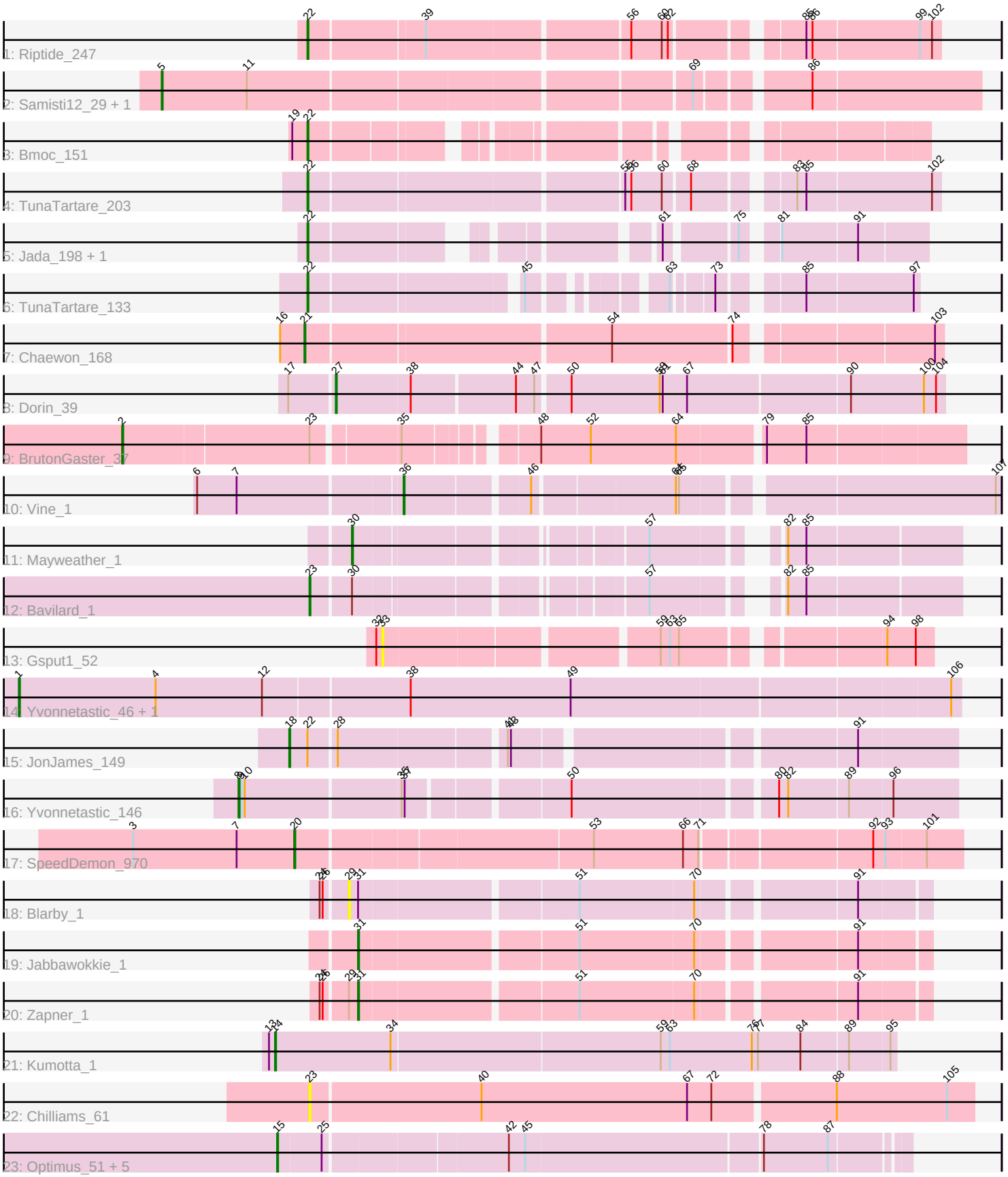
Pham 346003


1: Riptide_247
2: Samisti12_29 + 1
3: Bmoc_151
4: TunaTartare_203
5: Jada_198 + 1
6: TunaTartare_133
7: Chaewon_168
8: Dorin_39
9: BrutonGaster_37
10: Vine_1
11: Mayweather_1
12: Bavilard_1
13: Gsput1_52
14: Yvonnetastic_46 + 1
15: JonJames_149
16: Yvonnetastic_146
17: SpeedDemon_970
18: Blarby_1
19: Jabbawokkie_1
20: Zapner_1
21: Kumotta_1
22: Chilliams_61
23: Optimus_51 + 5

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 346003 Report

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

Pham number 346003 has 31 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Riptide_247
• Track 2 : Samisti12_29, EGole_30
• Track 3 : Bmoc_151
• Track 4 : TunaTartare_203
• Track 5 : Jada_198, Forrest_200
• Track 6 : TunaTartare_133
• Track 7 : Chaewon_168
• Track 8 : Dorin_39
• Track 9 : BrutonGaster_37
• Track 10 : Vine_1
• Track 11 : Mayweather_1
• Track 12 : Bavilard_1
• Track 13 : Gsput1_52
• Track 14 : Yvonnetastic_46, JonJames_48
• Track 15 : JonJames_149
• Track 16 : Yvonnetastic_146
• Track 17 : SpeedDemon_970
• Track 18 : Blarby_1
• Track 19 : Jabbawokkie_1
• Track 20 : Zapner_1
• Track 21 : Kumotta_1
• Track 22 : Chilliams_61
• Track 23 : Optimus_51, Wanda_52, DmpstrDiver_47, Minerva_52, Duke13_49, BAKA_50

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

The start number called the most often in the published annotations is 22, it was called in 6 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bmoc_151, Forrest_200, Jada_198, Riptide_247, TunaTartare_133, TunaTartare_203,

Genes that have the "Most Annotated" start but do not call it:
• JonJames_149,

Genes that do not have the "Most Annotated" start:
• BAKA_50, Bavilard_1, Blarby_1, BrutonGaster_37, Chaewon_168, Chilliams_61, DmpstrDiver_47, Dorin_39, Duke13_49, EGole_30, Gsput1_52, Jabbawokkie_1, JonJames_48, Kumotta_1, Mayweather_1, Minerva_52, Optimus_51, Samisti12_29, SpeedDemon_970, Vine_1, Wanda_52, Yvonnetastic_146, Yvonnetastic_46, Zapner_1,

Summary by start number:

Start 1:
• Found in 2 of 31 (6.5%) of genes in pham
• Manual Annotations of this start: 2 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: JonJames_48 (DD), Yvonnetastic_46 (DD),

Start 2:
• Found in 1 of 31 (3.2%) of genes in pham
• Manual Annotations of this start: 1 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BrutonGaster_37 (CQ2),

Start 5:
• Found in 2 of 31 (6.5%) of genes in pham
• Manual Annotations of this start: 2 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: EGole_30 (BE1), Samisti12_29 (BE1),

Start 8:
• Found in 1 of 31 (3.2%) of genes in pham
• Manual Annotations of this start: 1 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Yvonnetastic_146 (DD),

Start 14:
• Found in 1 of 31 (3.2%) of genes in pham
• Manual Annotations of this start: 1 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kumotta_1 (FB),

Start 15:
• Found in 6 of 31 (19.4%) of genes in pham
• Manual Annotations of this start: 6 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BAKA_50 (J), DmpstrDiver_47 (J), Duke13_49 (J), Minerva_52 (J), Optimus_51 (J), Wanda_52 (J),

Start 18:
• Found in 1 of 31 (3.2%) of genes in pham
• Manual Annotations of this start: 1 of 28

• Called 100.0% of time when present
• Phage (with cluster) where this start called: JonJames_149 (DD),

Start 20:
• Found in 1 of 31 (3.2%) of genes in pham
• Manual Annotations of this start: 1 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: SpeedDemon_970 (DL),

Start 21:
• Found in 1 of 31 (3.2%) of genes in pham
• Manual Annotations of this start: 1 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Chaewon_168 (BK2),

Start 22:
• Found in 7 of 31 (22.6%) of genes in pham
• Manual Annotations of this start: 6 of 28
• Called 85.7% of time when present
• Phage (with cluster) where this start called: Bmoc_151 (BE1), Forrest_200 (BK1), Jada_198 (BK1), Riptide_247 (BE1), TunaTartare_133 (BK1), TunaTartare_203 (BK1),

Start 23:
• Found in 3 of 31 (9.7%) of genes in pham
• Manual Annotations of this start: 1 of 28
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Bavilard_1 (CT), Chilliams_61 (FC),

Start 27:
• Found in 1 of 31 (3.2%) of genes in pham
• Manual Annotations of this start: 1 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Dorin_39 (CG),

Start 29:
• Found in 2 of 31 (6.5%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Blarby_1 (F),

Start 30:
• Found in 2 of 31 (6.5%) of genes in pham
• Manual Annotations of this start: 1 of 28
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Mayweather_1 (CT),

Start 31:
• Found in 3 of 31 (9.7%) of genes in pham
• Manual Annotations of this start: 2 of 28
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Jabbawokkie_1 (F2), Zapner_1 (F2),

Start 33:
• Found in 1 of 31 (3.2%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gsput1_52 (CU2),

Start 36:
• Found in 1 of 31 (3.2%) of genes in pham
• Manual Annotations of this start: 1 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Vine_1 (CT),

Summary by clusters:

There are 14 clusters represented in this pham: F2, CU2, F, DD, J, CG, DL, FB, FC, BK1, BK2, CQ2, BE1, CT,

Info for manual annotations of cluster BE1:
•Start number 5 was manually annotated 2 times for cluster BE1.
•Start number 22 was manually annotated 2 times for cluster BE1.

Info for manual annotations of cluster BK1:
•Start number 22 was manually annotated 4 times for cluster BK1.

Info for manual annotations of cluster BK2:
•Start number 21 was manually annotated 1 time for cluster BK2.

Info for manual annotations of cluster CG:
•Start number 27 was manually annotated 1 time for cluster CG.

Info for manual annotations of cluster CQ2:
•Start number 2 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster CT:
•Start number 23 was manually annotated 1 time for cluster CT.
•Start number 30 was manually annotated 1 time for cluster CT.
•Start number 36 was manually annotated 1 time for cluster CT.

Info for manual annotations of cluster DD:
•Start number 1 was manually annotated 2 times for cluster DD.
•Start number 8 was manually annotated 1 time for cluster DD.
•Start number 18 was manually annotated 1 time for cluster DD.

Info for manual annotations of cluster DL:
•Start number 20 was manually annotated 1 time for cluster DL.

Info for manual annotations of cluster F2:
•Start number 31 was manually annotated 2 times for cluster F2.

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

Info for manual annotations of cluster J:
•Start number 15 was manually annotated 6 times for cluster J.

Gene Information:

Gene: BAKA_50 Start: 40286, Stop: 40870, Start Num: 15
Candidate Starts for BAKA_50:
(Start: 15 @40286 has 6 MA's), (25, 40328), (42, 40499), (45, 40514), (78, 40739), (87, 40802),

Gene: Bavilard_1 Start: 3, Stop: 542, Start Num: 23
Candidate Starts for Bavilard_1:
(Start: 23 @3 has 1 MA's), (Start: 30 @39 has 1 MA's), (57, 285), (82, 378), (85, 396),

Gene: Blarby_1 Start: 35, Stop: 562, Start Num: 29
Candidate Starts for Blarby_1:
(24, 11), (26, 14), (29, 35), (Start: 31 @44 has 2 MA's), (51, 245), (70, 356), (91, 497),

Gene: Bmoc_151 Start: 88009, Stop: 88512, Start Num: 22
Candidate Starts for Bmoc_151:
(19, 87994), (Start: 22 @88009 has 6 MA's),

Gene: BrutonGaster_37 Start: 27677, Stop: 28441, Start Num: 2
Candidate Starts for BrutonGaster_37:
(Start: 2 @27677 has 1 MA's), (Start: 23 @27857 has 1 MA's), (35, 27935), (48, 28043), (52, 28091), (64, 28175), (79, 28253), (85, 28292),

Gene: Chaewon_168 Start: 92297, Stop: 92878, Start Num: 21
Candidate Starts for Chaewon_168:
(16, 92273), (Start: 21 @92297 has 1 MA's), (54, 92582), (74, 92696), (103, 92870),

Gene: Chilliams_61 Start: 27632, Stop: 28270, Start Num: 23
Candidate Starts for Chilliams_61:
(Start: 23 @27632 has 1 MA's), (40, 27797), (67, 27998), (72, 28022), (88, 28136), (105, 28244),

Gene: DmpstrDiver_47 Start: 39715, Stop: 40299, Start Num: 15
Candidate Starts for DmpstrDiver_47:
(Start: 15 @39715 has 6 MA's), (25, 39757), (42, 39928), (45, 39943), (78, 40168), (87, 40231),

Gene: Dorin_39 Start: 19049, Stop: 19627, Start Num: 27
Candidate Starts for Dorin_39:
(17, 19007), (Start: 27 @19049 has 1 MA's), (38, 19121), (44, 19220), (47, 19238), (50, 19268), (58, 19355), (61, 19358), (67, 19382), (90, 19535), (100, 19607), (104, 19619),

Gene: Duke13_49 Start: 40033, Stop: 40617, Start Num: 15
Candidate Starts for Duke13_49:
(Start: 15 @40033 has 6 MA's), (25, 40075), (42, 40246), (45, 40261), (78, 40486), (87, 40549),

Gene: EGole_30 Start: 14796, Stop: 14044, Start Num: 5
Candidate Starts for EGole_30:

(Start: 5 @14796 has 2 MA's), (11, 14712), (69, 14301), (86, 14205),

Gene: Forrest_200 Start: 100263, Stop: 100757, Start Num: 22
Candidate Starts for Forrest_200:
(Start: 22 @100263 has 6 MA's), (61, 100536), (75, 100596), (81, 100620), (91, 100692),

Gene: Gsput1_52 Start: 36371, Stop: 36856, Start Num: 33
Candidate Starts for Gsput1_52:
(32, 36365), (33, 36371), (59, 36620), (63, 36629), (65, 36638), (94, 36812), (98, 36839),

Gene: Jabbawokkie_1 Start: 43, Stop: 561, Start Num: 31
Candidate Starts for Jabbawokkie_1:
(Start: 31 @43 has 2 MA's), (51, 244), (70, 355), (91, 496),

Gene: Jada_198 Start: 99135, Stop: 99629, Start Num: 22
Candidate Starts for Jada_198:
(Start: 22 @99135 has 6 MA's), (61, 99408), (75, 99468), (81, 99492), (91, 99564),

Gene: JonJames_149 Start: 83143, Stop: 83742, Start Num: 18
Candidate Starts for JonJames_149:
(Start: 18 @83143 has 1 MA's), (Start: 22 @83161 has 6 MA's), (28, 83185), (41, 83338), (43, 83341), (91, 83647),

Gene: JonJames_48 Start: 34709, Stop: 35611, Start Num: 1
Candidate Starts for JonJames_48:
(Start: 1 @34709 has 2 MA's), (4, 34844), (12, 34949), (38, 35087), (49, 35243), (106, 35603),

Gene: Kumotta_1 Start: 128, Stop: 730, Start Num: 14
Candidate Starts for Kumotta_1:
(13, 122), (Start: 14 @128 has 1 MA's), (34, 242), (59, 503), (63, 512), (76, 593), (77, 599), (84, 641), (89, 686), (95, 725),

Gene: Mayweather_1 Start: 38, Stop: 541, Start Num: 30
Candidate Starts for Mayweather_1:
(Start: 30 @38 has 1 MA's), (57, 284), (82, 377), (85, 395),

Gene: Minerva_52 Start: 41582, Stop: 42166, Start Num: 15
Candidate Starts for Minerva_52:
(Start: 15 @41582 has 6 MA's), (25, 41624), (42, 41795), (45, 41810), (78, 42035), (87, 42098),

Gene: Optimus_51 Start: 41167, Stop: 41751, Start Num: 15
Candidate Starts for Optimus_51:
(Start: 15 @41167 has 6 MA's), (25, 41209), (42, 41380), (45, 41395), (78, 41620), (87, 41683),

Gene: Riptide_247 Start: 118061, Stop: 118630, Start Num: 22
Candidate Starts for Riptide_247:
(Start: 22 @118061 has 6 MA's), (39, 118169), (56, 118358), (60, 118388), (62, 118394), (85, 118502), (86, 118508), (99, 118610), (102, 118622),

Gene: Samisti12_29 Start: 14403, Stop: 13651, Start Num: 5
Candidate Starts for Samisti12_29:
(Start: 5 @14403 has 2 MA's), (11, 14319), (69, 13908), (86, 13812),

Gene: SpeedDemon_970 Start: 66680, Stop: 66057, Start Num: 20
Candidate Starts for SpeedDemon_970:
(3, 66839), (7, 66737), (Start: 20 @66680 has 1 MA's), (53, 66401), (66, 66314), (71, 66299), (92, 66143), (93, 66131), (101, 66092),

Gene: TunaTartare_203 Start: 105397, Stop: 105966, Start Num: 22
Candidate Starts for TunaTartare_203:
(Start: 22 @105397 has 6 MA's), (55, 105688), (56, 105694), (60, 105724), (68, 105748), (83, 105829), (85, 105838), (102, 105958),

Gene: TunaTartare_133 Start: 80340, Stop: 80837, Start Num: 22
Candidate Starts for TunaTartare_133:
(Start: 22 @80340 has 6 MA's), (45, 80529), (63, 80631), (73, 80664), (85, 80730), (97, 80832),

Gene: Vine_1 Start: 257, Stop: 790, Start Num: 36
Candidate Starts for Vine_1:
(6, 65), (7, 104), (Start: 36 @257 has 1 MA's), (46, 368), (64, 497), (65, 500), (107, 785),

Gene: Wanda_52 Start: 40059, Stop: 40643, Start Num: 15
Candidate Starts for Wanda_52:
(Start: 15 @40059 has 6 MA's), (25, 40101), (42, 40272), (45, 40287), (78, 40512), (87, 40575),

Gene: Yvonnetastic_46 Start: 32244, Stop: 33146, Start Num: 1
Candidate Starts for Yvonnetastic_46:
(Start: 1 @32244 has 2 MA's), (4, 32379), (12, 32484), (38, 32622), (49, 32778), (106, 33138),

Gene: Yvonnetastic_146 Start: 79771, Stop: 80427, Start Num: 8
Candidate Starts for Yvonnetastic_146:
(Start: 8 @79771 has 1 MA's), (9, 79774), (10, 79777), (35, 79924), (37, 79927), (50, 80071), (80, 80257), (82, 80266), (89, 80323), (96, 80365),

Gene: Zapner_1 Start: 44, Stop: 562, Start Num: 31
Candidate Starts for Zapner_1:
(24, 11), (26, 14), (29, 35), (Start: 31 @44 has 2 MA's), (51, 245), (70, 356), (91, 497),