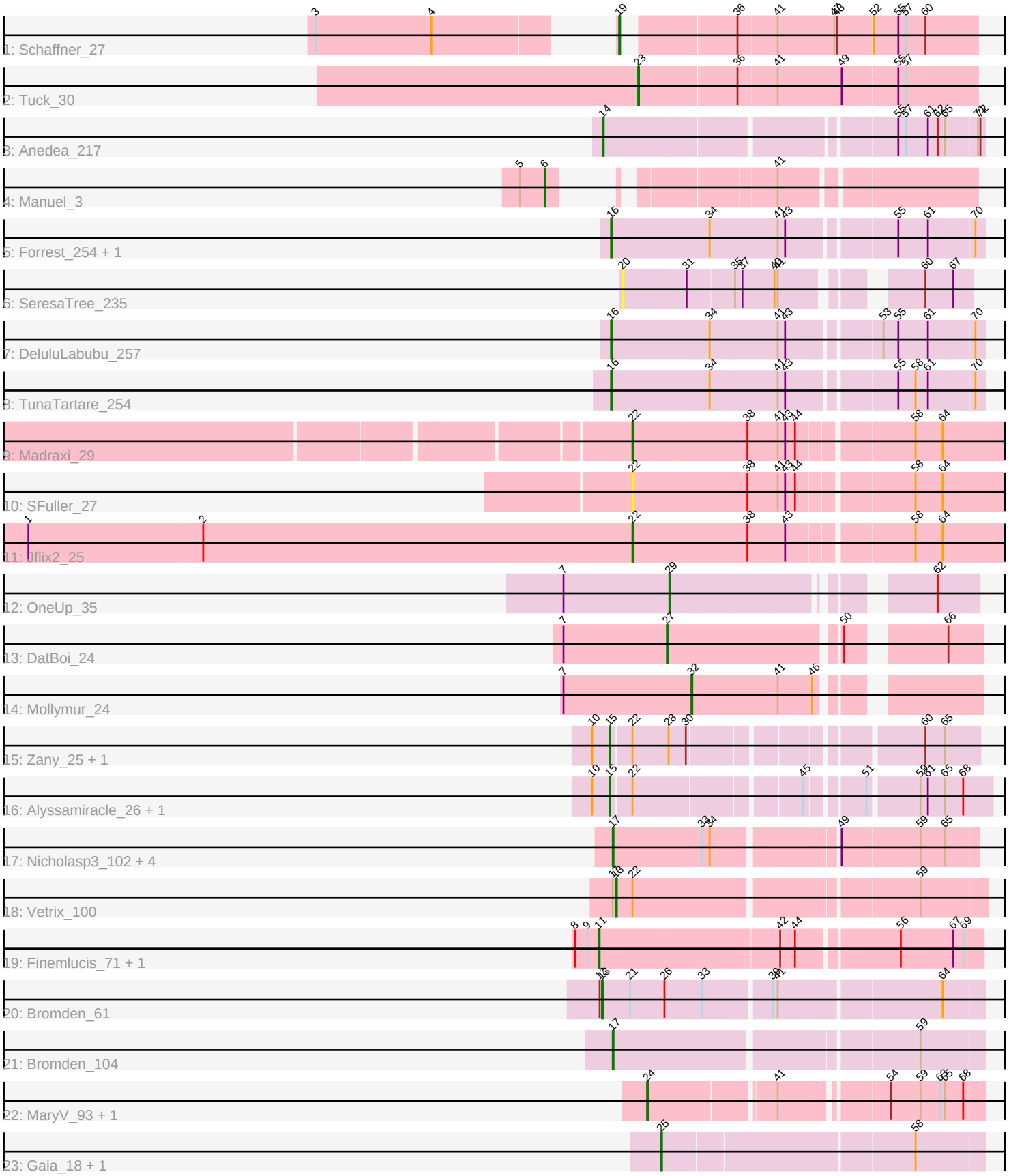
Pham 311851


1: Schaffner_27
2: Tuck_30
3: Anedea_217
4: Manuel_3
5: Forrest_254 + 1
6: SeresaTree_235
7: DeluluLabubu_257
8: TunaTartare_254
9: Madraxi_29
10: SFuller_27
11: Jflix2_25
12: OneUp_35
13: DatBoi_24
14: Mollymur_24
15: Zany_25 + 1
16: Alyssamiracle_26 + 1
17: Nicholasp3_102 + 4
18: Vetrix_100
19: Finemlucis_71 + 1
20: Bromden_61
21: Bromden_104
22: MaryV_93 + 1
23: Gaia_18 + 1

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 311851 Report

This analysis was run 06/27/26 on database version 652.

Pham number 311851 has 33 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Schaffner_27
• Track 2 : Tuck_30
• Track 3 : Anedea_217
• Track 4 : Manuel_3
• Track 5 : Forrest_254, Jada_255
• Track 6 : SeresaTree_235
• Track 7 : DeluluLabubu_257
• Track 8 : TunaTartare_254
• Track 9 : Madraxi_29
• Track 10 : SFuller_27
• Track 11 : Jflix2_25
• Track 12 : OneUp_35
• Track 13 : DatBoi_24
• Track 14 : Mollymur_24
• Track 15 : Zany_25, RazorC_24
• Track 16 : Alyssamiracle_26, Genamy16_26
• Track 17 : Nicholasp3_102, Gardann_101, Underpass_94, Rumpelstiltskin_98, Kahlid_101
• Track 18 : Vetrix_100
• Track 19 : Finemlucis_71, Gabriela_68
• Track 20 : Bromden_61
• Track 21 : Bromden_104
• Track 22 : MaryV_93, Wildcat_93
• Track 23 : Gaia_18, Nebkiss_19

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

The start number called the most often in the published annotations is 17, it was called in 6 of the 31 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bromden_104, Gardann_101, Kahlid_101, Nicholasp3_102, Rumpelstiltskin_98, Underpass_94,

Genes that have the "Most Annotated" start but do not call it:
• Vetrix_100,

Genes that do not have the "Most Annotated" start:
• Alyssamiracle_26, Anedea_217, Bromden_61, DatBoi_24, DeluluLabubu_257, Finemlucis_71, Forrest_254, Gabriela_68, Gaia_18, Genamy16_26, Jada_255, Jflix2_25, Madraxi_29, Manuel_3, MaryV_93, Mollymur_24, Nebkiss_19, OneUp_35, RazorC_24, SFuller_27, Schaffner_27, SeresaTree_235, Tuck_30, TunaTartare_254, Wildcat_93, Zany_25,

Summary by start number:

Start 6:
• Found in 1 of 33 (3.0%) 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: Manuel_3 (BF),

Start 11:
• Found in 2 of 33 (6.1%) of genes in pham
• Manual Annotations of this start: 2 of 31
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Finemlucis_71 (L2), Gabriela_68 (L2),

Start 13:
• Found in 1 of 33 (3.0%) 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: Bromden_61 (L4),

Start 14:
• Found in 1 of 33 (3.0%) 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: Anedea_217 (BE1),

Start 15:
• Found in 4 of 33 (12.1%) of genes in pham
• Manual Annotations of this start: 4 of 31
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alyssamiracle_26 (DV), Genamy16_26 (DV), RazorC_24 (DV), Zany_25 (DV),

Start 16:
• Found in 4 of 33 (12.1%) of genes in pham
• Manual Annotations of this start: 4 of 31
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DeluluLabubu_257 (BK1), Forrest_254 (BK1), Jada_255 (BK1), TunaTartare_254 (BK1),

Start 17:
• Found in 7 of 33 (21.2%) of genes in pham
• Manual Annotations of this start: 6 of 31

• Called 85.7% of time when present
• Phage (with cluster) where this start called: Bromden_104 (L4), Gardann_101 (L2), Kahlid_101 (L2), Nicholasp3_102 (L2), Rumpelstiltskin_98 (L2), Underpass_94 (L2),

Start 18:
• Found in 1 of 33 (3.0%) 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: Vetrix_100 (L2),

Start 19:
• Found in 1 of 33 (3.0%) 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: Schaffner_27 (AZ1),

Start 20:
• Found in 1 of 33 (3.0%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: SeresaTree_235 (BK1),

Start 22:
• Found in 8 of 33 (24.2%) of genes in pham
• Manual Annotations of this start: 2 of 31
• Called 37.5% of time when present
• Phage (with cluster) where this start called: Jflix2_25 (CF), Madraxi_29 (CF), SFuller_27 (CF),

Start 23:
• Found in 1 of 33 (3.0%) 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: Tuck_30 (AZ1),

Start 24:
• Found in 2 of 33 (6.1%) of genes in pham
• Manual Annotations of this start: 2 of 31
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MaryV_93 (V), Wildcat_93 (V),

Start 25:
• Found in 2 of 33 (6.1%) of genes in pham
• Manual Annotations of this start: 2 of 31
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gaia_18 (X), Nebkiss_19 (X),

Start 27:
• Found in 1 of 33 (3.0%) 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: DatBoi_24 (DL),

Start 29:
• Found in 1 of 33 (3.0%) 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: OneUp_35 (CQ2),

Start 32:
• Found in 1 of 33 (3.0%) 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: Mollymur_24 (DL),

Summary by clusters:

There are 12 clusters represented in this pham: DL, CQ2, CF, L4, BF, L2, BK1, X, V, DV, AZ1, BE1,

Info for manual annotations of cluster AZ1:
•Start number 19 was manually annotated 1 time for cluster AZ1.
•Start number 23 was manually annotated 1 time for cluster AZ1.

Info for manual annotations of cluster BE1:
•Start number 14 was manually annotated 1 time for cluster BE1.

Info for manual annotations of cluster BF:
•Start number 6 was manually annotated 1 time for cluster BF.

Info for manual annotations of cluster BK1:
•Start number 16 was manually annotated 4 times for cluster BK1.

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

Info for manual annotations of cluster CQ2:
•Start number 29 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster DL:
•Start number 27 was manually annotated 1 time for cluster DL.
•Start number 32 was manually annotated 1 time for cluster DL.

Info for manual annotations of cluster DV:
•Start number 15 was manually annotated 4 times for cluster DV.

Info for manual annotations of cluster L2:
•Start number 11 was manually annotated 2 times for cluster L2.
•Start number 17 was manually annotated 5 times for cluster L2.
•Start number 18 was manually annotated 1 time for cluster L2.

Info for manual annotations of cluster L4:
•Start number 13 was manually annotated 1 time for cluster L4.
•Start number 17 was manually annotated 1 time for cluster L4.

Info for manual annotations of cluster V:

•Start number 24 was manually annotated 2 times for cluster V.

Info for manual annotations of cluster X:
•Start number 25 was manually annotated 2 times for cluster X.

Gene Information:

Gene: Alyssamiracle_26 Start: 15136, Stop: 15546, Start Num: 15
Candidate Starts for Alyssamiracle_26:
(10, 15115), (Start: 15 @15136 has 4 MA's), (Start: 22 @15160 has 2 MA's), (45, 15343), (51, 15403), (59, 15460), (61, 15469), (65, 15490), (68, 15511),

Gene: Anedea_217 Start: 106294, Stop: 106719, Start Num: 14
Candidate Starts for Anedea_217:
(Start: 14 @106294 has 1 MA's), (55, 106618), (57, 106627), (61, 106654), (62, 106666), (65, 106675), (71, 106711), (72, 106714),

Gene: Bromden_61 Start: 43963, Stop: 44400, Start Num: 13
Candidate Starts for Bromden_61:
(12, 43960), (Start: 13 @43963 has 1 MA's), (21, 43996), (26, 44038), (33, 44083), (39, 44158), (41, 44164), (64, 44353),

Gene: Bromden_104 Start: 63270, Stop: 63686, Start Num: 17
Candidate Starts for Bromden_104:
(Start: 17 @63270 has 6 MA's), (59, 63612),

Gene: DatBoi_24 Start: 15695, Stop: 16030, Start Num: 27
Candidate Starts for DatBoi_24:
(7, 15569), (Start: 27 @15695 has 1 MA's), (50, 15890), (66, 15989),

Gene: DeluluLabubu_257 Start: 121131, Stop: 121556, Start Num: 16
Candidate Starts for DeluluLabubu_257:
(Start: 16 @121131 has 4 MA's), (34, 121248), (41, 121329), (43, 121338), (53, 121437), (55, 121455), (61, 121491), (70, 121545),

Gene: Finemlucis_71 Start: 49120, Stop: 49566, Start Num: 11
Candidate Starts for Finemlucis_71:
(8, 49093), (9, 49108), (Start: 11 @49120 has 2 MA's), (42, 49336), (44, 49354), (56, 49468), (67, 49531), (69, 49543),

Gene: Forrest_254 Start: 120939, Stop: 121364, Start Num: 16
Candidate Starts for Forrest_254:
(Start: 16 @120939 has 4 MA's), (34, 121056), (41, 121137), (43, 121146), (55, 121263), (61, 121299), (70, 121353),

Gene: Gabriela_68 Start: 47246, Stop: 47692, Start Num: 11
Candidate Starts for Gabriela_68:
(8, 47219), (9, 47234), (Start: 11 @47246 has 2 MA's), (42, 47462), (44, 47480), (56, 47594), (67, 47657), (69, 47669),

Gene: Gaia_18 Start: 17322, Stop: 17690, Start Num: 25

Candidate Starts for Gaia_18:
(Start: 25 @17322 has 2 MA's), (58, 17610),

Gene: Gardann_101 Start: 61924, Stop: 62331, Start Num: 17
Candidate Starts for Gardann_101:
(Start: 17 @61924 has 6 MA's), (33, 62029), (34, 62038), (49, 62173), (59, 62266), (65, 62296),

Gene: Genamy16_26 Start: 15136, Stop: 15546, Start Num: 15
Candidate Starts for Genamy16_26:
(10, 15115), (Start: 15 @15136 has 4 MA's), (Start: 22 @15160 has 2 MA's), (45, 15343), (51, 15403), (59, 15460), (61, 15469), (65, 15490), (68, 15511),

Gene: Jada_255 Start: 120179, Stop: 120604, Start Num: 16
Candidate Starts for Jada_255:
(Start: 16 @120179 has 4 MA's), (34, 120296), (41, 120377), (43, 120386), (55, 120503), (61, 120539), (70, 120593),

Gene: Jflix2_25 Start: 25439, Stop: 25867, Start Num: 22
Candidate Starts for Jflix2_25:
(1, 24707), (2, 24917), (Start: 22 @25439 has 2 MA's), (38, 25574), (43, 25619), (58, 25760), (64, 25793),

Gene: Kahlid_101 Start: 61842, Stop: 62249, Start Num: 17
Candidate Starts for Kahlid_101:
(Start: 17 @61842 has 6 MA's), (33, 61947), (34, 61956), (49, 62091), (59, 62184), (65, 62214),

Gene: Madraxi_29 Start: 27630, Stop: 28058, Start Num: 22
Candidate Starts for Madraxi_29:
(Start: 22 @27630 has 2 MA's), (38, 27765), (41, 27801), (43, 27810), (44, 27822), (58, 27951), (64, 27984),

Gene: Manuel_3 Start: 3413, Stop: 3811, Start Num: 6
Candidate Starts for Manuel_3:
(5, 3383), (Start: 6 @3413 has 1 MA's), (41, 3590),

Gene: MaryV_93 Start: 56140, Stop: 56508, Start Num: 24
Candidate Starts for MaryV_93:
(Start: 24 @56140 has 2 MA's), (41, 56281), (54, 56398), (59, 56434), (63, 56458), (65, 56464), (68, 56485),

Gene: Mollymur_24 Start: 15771, Stop: 16076, Start Num: 32
Candidate Starts for Mollymur_24:
(7, 15615), (Start: 32 @15771 has 1 MA's), (41, 15873), (46, 15915),

Gene: Nebkiss_19 Start: 17323, Stop: 17691, Start Num: 25
Candidate Starts for Nebkiss_19:
(Start: 25 @17323 has 2 MA's), (58, 17611),

Gene: Nicholasp3_102 Start: 61924, Stop: 62331, Start Num: 17
Candidate Starts for Nicholasp3_102:
(Start: 17 @61924 has 6 MA's), (33, 62029), (34, 62038), (49, 62173), (59, 62266), (65, 62296),

Gene: OneUp_35 Start: 15247, Stop: 15564, Start Num: 29

Candidate Starts for OneUp_35:
(7, 15118), (Start: 29 @15247 has 1 MA's), (62, 15517),

Gene: RazorC_24 Start: 15136, Stop: 15528, Start Num: 15
Candidate Starts for RazorC_24:
(10, 15115), (Start: 15 @15136 has 4 MA's), (Start: 22 @15160 has 2 MA's), (28, 15202), (30, 15220), (60, 15463), (65, 15487),

Gene: Rumpelstiltskin_98 Start: 61717, Stop: 62124, Start Num: 17
Candidate Starts for Rumpelstiltskin_98:
(Start: 17 @61717 has 6 MA's), (33, 61822), (34, 61831), (49, 61966), (59, 62059), (65, 62089),

Gene: SFuller_27 Start: 26032, Stop: 26460, Start Num: 22
Candidate Starts for SFuller_27:
(Start: 22 @26032 has 2 MA's), (38, 26167), (41, 26203), (43, 26212), (44, 26224), (58, 26353), (64, 26386),

Gene: Schaffner_27 Start: 23138, Stop: 23539, Start Num: 19
Candidate Starts for Schaffner_27:
(3, 22853), (4, 22994), (Start: 19 @23138 has 1 MA's), (36, 23255), (41, 23300), (47, 23369), (48, 23372), (52, 23414), (55, 23444), (57, 23453), (60, 23477),

Gene: SeresaTree_235 Start: 114238, Stop: 114606, Start Num: 20
Candidate Starts for SeresaTree_235:
(20, 114238), (31, 114316), (35, 114370), (37, 114376), (40, 114415), (41, 114418), (60, 114550), (67, 114583),

Gene: Tuck_30 Start: 24609, Stop: 25010, Start Num: 23
Candidate Starts for Tuck_30:
(Start: 23 @24609 has 1 MA's), (36, 24726), (41, 24771), (49, 24849), (55, 24915), (57, 24924),

Gene: TunaTartare_254 Start: 124119, Stop: 124544, Start Num: 16
Candidate Starts for TunaTartare_254:
(Start: 16 @124119 has 4 MA's), (34, 124236), (41, 124317), (43, 124326), (55, 124443), (58, 124464), (61, 124479), (70, 124533),

Gene: Underpass_94 Start: 56960, Stop: 57367, Start Num: 17
Candidate Starts for Underpass_94:
(Start: 17 @56960 has 6 MA's), (33, 57065), (34, 57074), (49, 57209), (59, 57302), (65, 57332),

Gene: Vetrix_100 Start: 61960, Stop: 62376, Start Num: 18
Candidate Starts for Vetrix_100:
(Start: 17 @61957 has 6 MA's), (Start: 18 @61960 has 1 MA's), (Start: 22 @61978 has 2 MA's), (59, 62299),

Gene: Wildcat_93 Start: 56150, Stop: 56518, Start Num: 24
Candidate Starts for Wildcat_93:
(Start: 24 @56150 has 2 MA's), (41, 56291), (54, 56408), (59, 56444), (63, 56468), (65, 56474), (68, 56495),

Gene: Zany_25 Start: 17287, Stop: 17679, Start Num: 15
Candidate Starts for Zany_25:

(10, 17266), (Start: 15 @17287 has 4 MA's), (Start: 22 @17311 has 2 MA's), (28, 17353), (30, 17371), (60, 17614), (65, 17638),