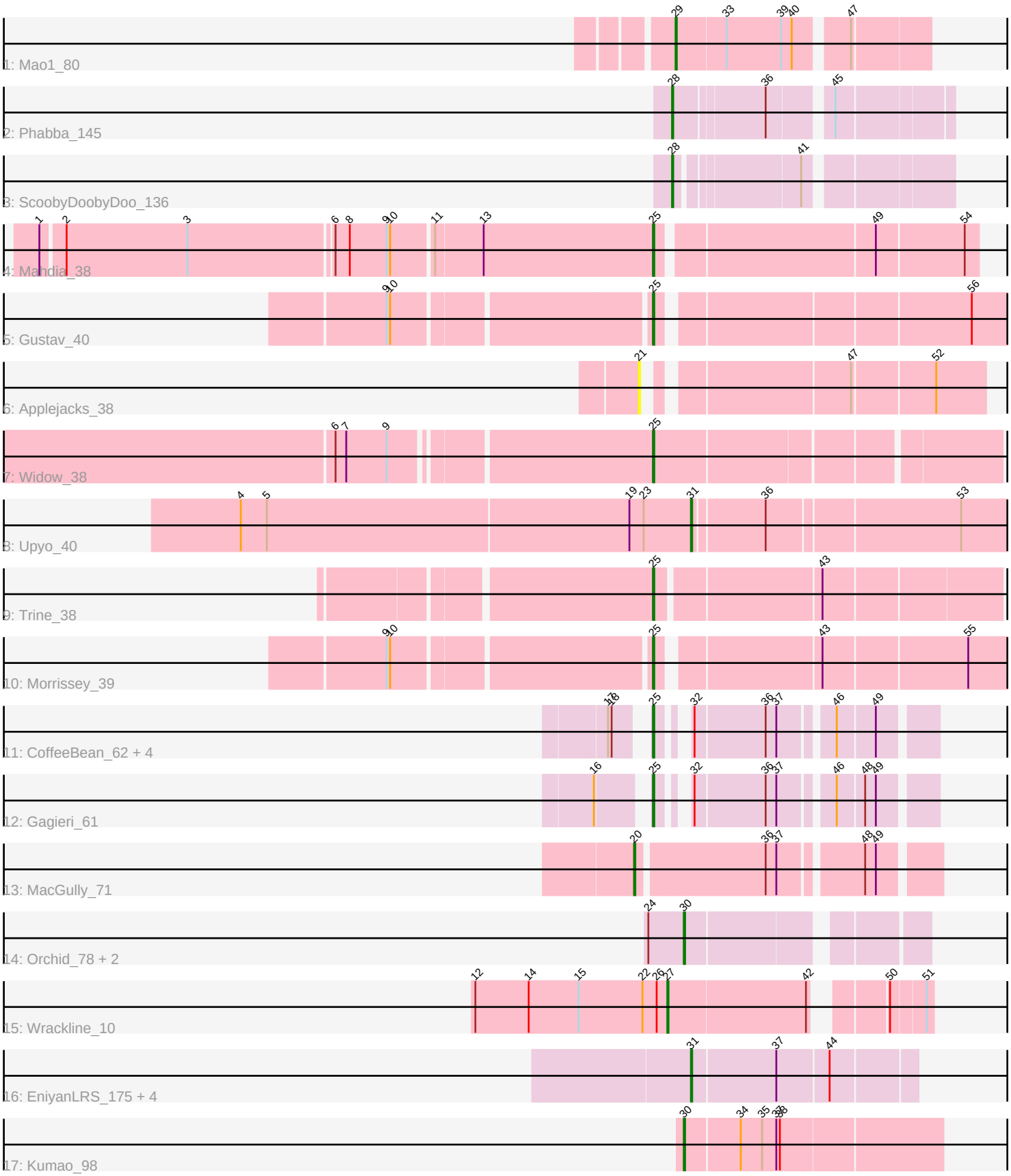
Pham 295009


1: Mao1_80
2: Phabba_145
3: ScoobyDoobyDoo_136
4: Mahdia_38
5: Gustav_40
6: Applejacks_38
7: Widow_38
8: Upyo_40
9: Trine_38
10: Morrissey_39
11: CoffeeBean_62 + 4
12: Gagieri_61
13: MacGully_71
14: Orchid_78 + 2
15: Wrackline_10
16: EniyanLRS_175 + 4
17: Kumao_98

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 295009 Report

This analysis was run 04/18/26 on database version 643.

Pham number 295009 has 27 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Mao1_80
• Track 2 : Phabba_145
• Track 3 : ScoobyDoobyDoo_136
• Track 4 : Mahdia_38
• Track 5 : Gustav_40
• Track 6 : Applejacks_38
• Track 7 : Widow_38
• Track 8 : Upyo_40
• Track 9 : Trine_38
• Track 10 : Morrissey_39
• Track 11 : CoffeeBean_62, Braxoaddie_62, Polyyuki_62, Maselop_62, Apiary_62
• Track 12 : Gagieri_61
• Track 13 : MacGully_71
• Track 14 : Orchid_78, Kampe_79, PatrickStar_79
• Track 15 : Wrackline_10
• Track 16 : EniyanLRS_175, MaryV_129, Wildcat_143, Azrael100_136, Cosmo_143
• Track 17 : Kumao_98

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

The start number called the most often in the published annotations is 25, it was called in 11 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Apiary_62, Braxoaddie_62, CoffeeBean_62, Gagieri_61, Gustav_40, Mahdia_38, Maselop_62, Morrissey_39, Polyyuki_62, Trine_38, Widow_38,

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

Genes that do not have the "Most Annotated" start:
• Applejacks_38, Azrael100_136, Cosmo_143, EniyanLRS_175, Kampe_79, Kumao_98, MacGully_71, Mao1_80, MaryV_129, Orchid_78, PatrickStar_79, Phabba_145, ScoobyDoobyDoo_136, Upyo_40, Wildcat_143, Wrackline_10,

Summary by start number:

Start 20:
• Found in 1 of 27 (3.7%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MacGully_71 (CR7),

Start 21:
• Found in 1 of 27 (3.7%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Applejacks_38 (CD),

Start 25:
• Found in 11 of 27 (40.7%) of genes in pham
• Manual Annotations of this start: 11 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Apiary_62 (CR6), Braxoaddie_62 (CR6), CoffeeBean_62 (CR6), Gagieri_61 (CR6), Gustav_40 (CD), Mahdia_38 (CD), Maselop_62 (CR6), Morrissey_39 (CD), Polyyuki_62 (CR6), Trine_38 (CD), Widow_38 (CD),

Start 27:
• Found in 1 of 27 (3.7%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Wrackline_10 (GF),

Start 28:
• Found in 2 of 27 (7.4%) of genes in pham
• Manual Annotations of this start: 2 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Phabba_145 (C2), ScoobyDoobyDoo_136 (C2),

Start 29:
• Found in 1 of 27 (3.7%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Mao1_80 (AD),

Start 30:
• Found in 4 of 27 (14.8%) of genes in pham
• Manual Annotations of this start: 4 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kampe_79 (CX), Kumao_98 (singleton), Orchid_78 (CX), PatrickStar_79 (CX),

Start 31:
• Found in 6 of 27 (22.2%) of genes in pham
• Manual Annotations of this start: 6 of 26

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Azrael100_136 (V), Cosmo_143 (V), EniyanLRS_175 (V), MaryV_129 (V), Upyo_40 (CD), Wildcat_143 (V),

Summary by clusters:

There are 9 clusters represented in this pham: singleton, CR6, AD, CD, GF, CX, V, C2, CR7,

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

Info for manual annotations of cluster C2:
•Start number 28 was manually annotated 2 times for cluster C2.

Info for manual annotations of cluster CD:
•Start number 25 was manually annotated 5 times for cluster CD.
•Start number 31 was manually annotated 1 time for cluster CD.

Info for manual annotations of cluster CR6:
•Start number 25 was manually annotated 6 times for cluster CR6.

Info for manual annotations of cluster CR7:
•Start number 20 was manually annotated 1 time for cluster CR7.

Info for manual annotations of cluster CX:
•Start number 30 was manually annotated 3 times for cluster CX.

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

Info for manual annotations of cluster V:
•Start number 31 was manually annotated 5 times for cluster V.

Gene Information:

Gene: Apiary_62 Start: 46584, Stop: 46390, Start Num: 25
Candidate Starts for Apiary_62:
(17, 46605), (18, 46602), (Start: 25 @46584 has 11 MA's), (32, 46569), (36, 46512), (37, 46503), (46, 46464), (49, 46434),

Gene: Applejacks_38 Start: 30621, Stop: 30367, Start Num: 21
Candidate Starts for Applejacks_38:
(21, 30621), (47, 30474), (52, 30408),

Gene: Azrael100_136 Start: 67289, Stop: 67110, Start Num: 31
Candidate Starts for Azrael100_136:
(Start: 31 @67289 has 6 MA's), (37, 67220), (44, 67178),

Gene: Braxoaddie_62 Start: 46573, Stop: 46379, Start Num: 25
Candidate Starts for Braxoaddie_62:

(17, 46594), (18, 46591), (Start: 25 @46573 has 11 MA's), (32, 46558), (36, 46501), (37, 46492), (46, 46453), (49, 46423),

Gene: CoffeeBean_62 Start: 46531, Stop: 46337, Start Num: 25
Candidate Starts for CoffeeBean_62:
(17, 46552), (18, 46549), (Start: 25 @46531 has 11 MA's), (32, 46516), (36, 46459), (37, 46450), (46, 46411), (49, 46381),

Gene: Cosmo_143 Start: 67452, Stop: 67273, Start Num: 31
Candidate Starts for Cosmo_143:
(Start: 31 @67452 has 6 MA's), (37, 67383), (44, 67341),

Gene: EniyanLRS_175 Start: 67797, Stop: 67618, Start Num: 31
Candidate Starts for EniyanLRS_175:
(Start: 31 @67797 has 6 MA's), (37, 67728), (44, 67686),

Gene: Gagieri_61 Start: 46767, Stop: 46573, Start Num: 25
Candidate Starts for Gagieri_61:
(16, 46800), (Start: 25 @46767 has 11 MA's), (32, 46752), (36, 46695), (37, 46686), (46, 46647), (48, 46626), (49, 46617),

Gene: Gustav_40 Start: 31883, Stop: 31605, Start Num: 25
Candidate Starts for Gustav_40:
(9, 32087), (10, 32084), (Start: 25 @31883 has 11 MA's), (56, 31640),

Gene: Kampe_79 Start: 59645, Stop: 59466, Start Num: 30
Candidate Starts for Kampe_79:
(24, 59675), (Start: 30 @59645 has 4 MA's),

Gene: Kumao_98 Start: 61160, Stop: 60951, Start Num: 30
Candidate Starts for Kumao_98:
(Start: 30 @61160 has 4 MA's), (34, 61115), (35, 61097), (37, 61085), (38, 61082),

Gene: MacGully_71 Start: 49770, Stop: 49540, Start Num: 20
Candidate Starts for MacGully_71:
(Start: 20 @49770 has 1 MA's), (36, 49668), (37, 49659), (48, 49596), (49, 49587),

Gene: Mahdia_38 Start: 31109, Stop: 30855, Start Num: 25
Candidate Starts for Mahdia_38:
(1, 31604), (2, 31586), (3, 31484), (6, 31367), (8, 31355), (9, 31325), (10, 31322), (11, 31289), (13, 31250), (Start: 25 @31109 has 11 MA's), (49, 30938), (54, 30866),

Gene: Mao1_80 Start: 55699, Stop: 55893, Start Num: 29
Candidate Starts for Mao1_80:
(Start: 29 @55699 has 1 MA's), (33, 55738), (39, 55783), (40, 55792), (47, 55831),

Gene: MaryV_129 Start: 65640, Stop: 65461, Start Num: 31
Candidate Starts for MaryV_129:
(Start: 31 @65640 has 6 MA's), (37, 65571), (44, 65529),

Gene: Maselop_62 Start: 46607, Stop: 46413, Start Num: 25
Candidate Starts for Maselop_62:

(17, 46628), (18, 46625), (Start: 25 @46607 has 11 MA's), (32, 46592), (36, 46535), (37, 46526), (46, 46487), (49, 46457),

Gene: Morrissey_39 Start: 31553, Stop: 31275, Start Num: 25
Candidate Starts for Morrissey_39:
(9, 31757), (10, 31754), (Start: 25 @31553 has 11 MA's), (43, 31430), (55, 31313),

Gene: Orchid_78 Start: 59646, Stop: 59467, Start Num: 30
Candidate Starts for Orchid_78:
(24, 59676), (Start: 30 @59646 has 4 MA's),

Gene: PatrickStar_79 Start: 59645, Stop: 59466, Start Num: 30
Candidate Starts for PatrickStar_79:
(24, 59675), (Start: 30 @59645 has 4 MA's),

Gene: Phabba_145 Start: 88454, Stop: 88248, Start Num: 28
Candidate Starts for Phabba_145:
(Start: 28 @88454 has 2 MA's), (36, 88382), (45, 88337),

Gene: Polyyuki_62 Start: 46596, Stop: 46402, Start Num: 25
Candidate Starts for Polyyuki_62:
(17, 46617), (18, 46614), (Start: 25 @46596 has 11 MA's), (32, 46581), (36, 46524), (37, 46515), (46, 46476), (49, 46446),

Gene: ScoobyDoobyDoo_136 Start: 88103, Stop: 87900, Start Num: 28
Candidate Starts for ScoobyDoobyDoo_136:
(Start: 28 @88103 has 2 MA's), (41, 88010),

Gene: Trine_38 Start: 31043, Stop: 30771, Start Num: 25
Candidate Starts for Trine_38:
(Start: 25 @31043 has 11 MA's), (43, 30914),

Gene: Upyo_40 Start: 32017, Stop: 31766, Start Num: 31
Candidate Starts for Upyo_40:
(4, 32392), (5, 32371), (19, 32068), (23, 32056), (Start: 31 @32017 has 6 MA's), (36, 31960), (53, 31804),

Gene: Widow_38 Start: 31430, Stop: 31161, Start Num: 25
Candidate Starts for Widow_38:
(6, 31676), (7, 31667), (9, 31634), (Start: 25 @31430 has 11 MA's),

Gene: Wildcat_143 Start: 67533, Stop: 67354, Start Num: 31
Candidate Starts for Wildcat_143:
(Start: 31 @67533 has 6 MA's), (37, 67464), (44, 67422),

Gene: Wrackline_10 Start: 2288, Stop: 2479, Start Num: 27
Candidate Starts for Wrackline_10:
(12, 2126), (14, 2171), (15, 2213), (22, 2267), (26, 2279), (Start: 27 @2288 has 1 MA's), (42, 2402), (50, 2447), (51, 2474),