Pham 171862

4
5
15
17
18
1: Finemlucis_125
4
18
2: Gabriela_125 + 2
4
5
18
3: Archie_124
3
4
13
14
18
23
4: Tourach_128
2
4
7
12
18
21
5: Chaser_136
2
4
7
11
13
18
20
21
6: Douge_137
1
3
6
8
9
10
16
18
19
22
24
25
26
7: Ashwin_79 + 5
1
3
6
8
9
10
14
16
18
19
22
24
25
26
8: Firecracker_79

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 171862 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171862 has 15 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Finemlucis_125
• Track 2 : Gabriela_125, Gardann_125, Nicholasp3_126
• Track 3 : Archie_124
• Track 4 : Tourach_128
• Track 5 : Chaser_136
• Track 6 : Douge_137
• Track 7 : Ashwin_79, Zakhe101_77, YungJamal_82, Smooch_80, Dylan_78, Wildflower_78
• Track 8 : Firecracker_79

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

The start number called the most often in the published annotations is 4, it was called in 7 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Archie_124, Chaser_136, Douge_137, Finemlucis_125, Gabriela_125, Gardann_125, Nicholasp3_126, Tourach_128,

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

Genes that do not have the "Most Annotated" start:
• Ashwin_79, Dylan_78, Firecracker_79, Smooch_80, Wildflower_78, YungJamal_82, Zakhe101_77,

Summary by start number:

Start 3:
• Found in 8 of 15 (53.3%) of genes in pham
• Manual Annotations of this start: 7 of 14
• Called 87.5% of time when present
• Phage (with cluster) where this start called: Ashwin_79 (O), Dylan_78 (O), Firecracker_79 (O), Smooch_80 (O), Wildflower_78 (O), YungJamal_82 (O),

Zakhe101_77 (O),

Start 4:
• Found in 8 of 15 (53.3%) of genes in pham
• Manual Annotations of this start: 7 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Archie_124 (L2), Chaser_136 (L4), Douge_137 (L4), Finemlucis_125 (L2), Gabriela_125 (L2), Gardann_125 (L2), Nicholasp3_126 (L2), Tourach_128 (L2),

Summary by clusters:

There are 3 clusters represented in this pham: L4, L2, O,

Info for manual annotations of cluster L2:
•Start number 4 was manually annotated 6 times for cluster L2.

Info for manual annotations of cluster L4:
•Start number 4 was manually annotated 1 time for cluster L4.

Info for manual annotations of cluster O:
•Start number 3 was manually annotated 7 times for cluster O.

Gene Information:

Gene: Archie_124 Start: 67505, Stop: 66975, Start Num: 4
Candidate Starts for Archie_124:
(Start: 4 @67505 has 7 MA's), (5, 67490), (18, 67100),

Gene: Ashwin_79 Start: 49062, Stop: 48352, Start Num: 3
Candidate Starts for Ashwin_79:
(1, 49173), (Start: 3 @49062 has 7 MA's), (6, 49029), (8, 49005), (9, 48999), (10, 48906), (16, 48729), (18, 48654), (19, 48606), (22, 48516), (24, 48444), (25, 48423), (26, 48393),

Gene: Chaser_136 Start: 69692, Stop: 69135, Start Num: 4
Candidate Starts for Chaser_136:
(2, 69710), (Start: 4 @69692 has 7 MA's), (7, 69653), (12, 69434), (18, 69287), (21, 69158),

Gene: Douge_137 Start: 70061, Stop: 69504, Start Num: 4
Candidate Starts for Douge_137:
(2, 70079), (Start: 4 @70061 has 7 MA's), (7, 70022), (11, 69812), (13, 69782), (18, 69656), (20, 69590), (21, 69527),

Gene: Dylan_78 Start: 48778, Stop: 48068, Start Num: 3
Candidate Starts for Dylan_78:
(1, 48889), (Start: 3 @48778 has 7 MA's), (6, 48745), (8, 48721), (9, 48715), (10, 48622), (16, 48445), (18, 48370), (19, 48322), (22, 48232), (24, 48160), (25, 48139), (26, 48109),

Gene: Finemlucis_125 Start: 68538, Stop: 68011, Start Num: 4
Candidate Starts for Finemlucis_125:
(Start: 4 @68538 has 7 MA's), (5, 68523), (15, 68211), (17, 68184), (18, 68133),

Gene: Firecracker_79 Start: 48936, Stop: 48226, Start Num: 3
Candidate Starts for Firecracker_79:
(1, 49047), (Start: 3 @48936 has 7 MA's), (6, 48903), (8, 48879), (9, 48873), (10, 48780), (14, 48621), (16, 48603), (18, 48528), (19, 48480), (22, 48390), (24, 48318), (25, 48297), (26, 48267),

Gene: Gabriela_125 Start: 66867, Stop: 66340, Start Num: 4
Candidate Starts for Gabriela_125:
(Start: 4 @66867 has 7 MA's), (18, 66462),

Gene: Gardann_125 Start: 67544, Stop: 67017, Start Num: 4
Candidate Starts for Gardann_125:
(Start: 4 @67544 has 7 MA's), (18, 67139),

Gene: Nicholasp3_126 Start: 67544, Stop: 67017, Start Num: 4
Candidate Starts for Nicholasp3_126:
(Start: 4 @67544 has 7 MA's), (18, 67139),

Gene: Smooch_80 Start: 50277, Stop: 49567, Start Num: 3
Candidate Starts for Smooch_80:
(1, 50388), (Start: 3 @50277 has 7 MA's), (6, 50244), (8, 50220), (9, 50214), (10, 50121), (16, 49944), (18, 49869), (19, 49821), (22, 49731), (24, 49659), (25, 49638), (26, 49608),

Gene: Tourach_128 Start: 69093, Stop: 68527, Start Num: 4
Candidate Starts for Tourach_128:
(Start: 3 @69099 has 7 MA's), (Start: 4 @69093 has 7 MA's), (13, 68814), (14, 68781), (18, 68688), (23, 68544),

Gene: Wildflower_78 Start: 48368, Stop: 47658, Start Num: 3
Candidate Starts for Wildflower_78:
(1, 48479), (Start: 3 @48368 has 7 MA's), (6, 48335), (8, 48311), (9, 48305), (10, 48212), (16, 48035), (18, 47960), (19, 47912), (22, 47822), (24, 47750), (25, 47729), (26, 47699),

Gene: YungJamal_82 Start: 49998, Stop: 49288, Start Num: 3
Candidate Starts for YungJamal_82:
(1, 50109), (Start: 3 @49998 has 7 MA's), (6, 49965), (8, 49941), (9, 49935), (10, 49842), (16, 49665), (18, 49590), (19, 49542), (22, 49452), (24, 49380), (25, 49359), (26, 49329),

Gene: Zakhe101_77 Start: 48782, Stop: 48072, Start Num: 3
Candidate Starts for Zakhe101_77:
(1, 48893), (Start: 3 @48782 has 7 MA's), (6, 48749), (8, 48725), (9, 48719), (10, 48626), (16, 48449), (18, 48374), (19, 48326), (22, 48236), (24, 48164), (25, 48143), (26, 48113),