Pham 348232


3
6
7
8
12
14
15
17
21
1: VWB_24
5
7
9
10
13
14
15
16
24
28
29
30
2: EhyElimayoE_122 + 4
1
5
9
10
11
12
14
15
16
24
25
29
3: Nirvana_126
1
5
9
11
12
14
15
16
24
25
29
4: Frankenweenie_131
2
5
9
10
14
15
16
24
29
30
5: Kela_120 + 1
4
6
7
12
15
17
18
19
22
23
26
27
6: pZL12_41c

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 348232 Report

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

Pham number 348232 has 11 members, 2 are drafts.

Phages represented in each track:
• Track 1 : VWB_24
• Track 2 : EhyElimayoE_122, Kradal_121, Satis_121, Sarkar_121, Quantum_120
• Track 3 : Nirvana_126
• Track 4 : Frankenweenie_131
• Track 5 : Kela_120, JustBecause_119
• Track 6 : pZL12_41c

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

The start number called the most often in the published annotations is 16, it was called in 9 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• EhyElimayoE_122, Frankenweenie_131, JustBecause_119, Kela_120, Kradal_121, Nirvana_126, Quantum_120, Sarkar_121, Satis_121,

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

Genes that do not have the "Most Annotated" start:
• VWB_24, pZL12_41c,

Summary by start number:

Start 16:
• Found in 9 of 11 (81.8%) of genes in pham
• Manual Annotations of this start: 9 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: EhyElimayoE_122 (BM), Frankenweenie_131 (BM), JustBecause_119 (BM), Kela_120 (BM), Kradal_121 (BM), Nirvana_126 (BM), Quantum_120 (BM), Sarkar_121 (BM), Satis_121 (BM),

Start 21:
• Found in 2 of 11 (18.2%) of genes in pham

• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: VWB_24 (BA),

Start 23:
• Found in 1 of 11 (9.1%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: pZL12_41c (singleton),

Summary by clusters:

There are 3 clusters represented in this pham: BM, singleton, BA,

Info for manual annotations of cluster BM:
•Start number 16 was manually annotated 9 times for cluster BM.

Gene Information:

Gene: EhyElimayoE_122 Start: 79442, Stop: 79816, Start Num: 16
Candidate Starts for EhyElimayoE_122:
(5, 79172), (7, 79187), (9, 79217), (10, 79223), (13, 79301), (14, 79349), (15, 79382), (Start: 16 @79442 has 9 MA's), (24, 79553), (28, 79724), (29, 79745), (30, 79790),

Gene: Frankenweenie_131 Start: 84358, Stop: 84732, Start Num: 16
Candidate Starts for Frankenweenie_131:
(1, 83851), (5, 84088), (9, 84133), (11, 84160), (12, 84199), (14, 84265), (15, 84298), (Start: 16 @84358 has 9 MA's), (24, 84469), (25, 84499), (29, 84661),

Gene: JustBecause_119 Start: 78510, Stop: 78884, Start Num: 16
Candidate Starts for JustBecause_119:
(2, 78159), (5, 78240), (9, 78285), (10, 78291), (14, 78417), (15, 78450), (Start: 16 @78510 has 9 MA's), (24, 78621), (29, 78813), (30, 78858),

Gene: Kela_120 Start: 78390, Stop: 78764, Start Num: 16
Candidate Starts for Kela_120:
(2, 78039), (5, 78120), (9, 78165), (10, 78171), (14, 78297), (15, 78330), (Start: 16 @78390 has 9 MA's), (24, 78501), (29, 78693), (30, 78738),

Gene: Kradal_121 Start: 79439, Stop: 79813, Start Num: 16
Candidate Starts for Kradal_121:
(5, 79169), (7, 79184), (9, 79214), (10, 79220), (13, 79298), (14, 79346), (15, 79379), (Start: 16 @79439 has 9 MA's), (24, 79550), (28, 79721), (29, 79742), (30, 79787),

Gene: Nirvana_126 Start: 82755, Stop: 83129, Start Num: 16
Candidate Starts for Nirvana_126:
(1, 82248), (5, 82485), (9, 82530), (10, 82536), (11, 82557), (12, 82596), (14, 82662), (15, 82695), (Start: 16 @82755 has 9 MA's), (24, 82866), (25, 82896), (29, 83058),

Gene: Quantum_120 Start: 79439, Stop: 79813, Start Num: 16

Candidate Starts for Quantum_120:
(5, 79169), (7, 79184), (9, 79214), (10, 79220), (13, 79298), (14, 79346), (15, 79379), (Start: 16 @79439 has 9 MA's), (24, 79550), (28, 79721), (29, 79742), (30, 79787),

Gene: Sarkar_121 Start: 79439, Stop: 79813, Start Num: 16
Candidate Starts for Sarkar_121:
(5, 79169), (7, 79184), (9, 79214), (10, 79220), (13, 79298), (14, 79346), (15, 79379), (Start: 16 @79439 has 9 MA's), (24, 79550), (28, 79721), (29, 79742), (30, 79787),

Gene: Satis_121 Start: 79435, Stop: 79809, Start Num: 16
Candidate Starts for Satis_121:
(5, 79165), (7, 79180), (9, 79210), (10, 79216), (13, 79294), (14, 79342), (15, 79375), (Start: 16 @79435 has 9 MA's), (24, 79546), (28, 79717), (29, 79738), (30, 79783),

Gene: VWB_24 Start: 21190, Stop: 21498, Start Num: 21
Candidate Starts for VWB_24:
(3, 20788), (6, 20872), (7, 20878), (8, 20887), (12, 20974), (14, 21040), (15, 21073), (17, 21142), (21, 21190),

Gene: pZL12_41c Start: 30584, Stop: 30261, Start Num: 23
Candidate Starts for pZL12_41c:
(4, 30935), (6, 30914), (7, 30908), (12, 30812), (15, 30713), (17, 30644), (18, 30635), (19, 30626), (20, 30599), (21, 30596), (22, 30593), (23, 30584), (26, 30515), (27, 30497),