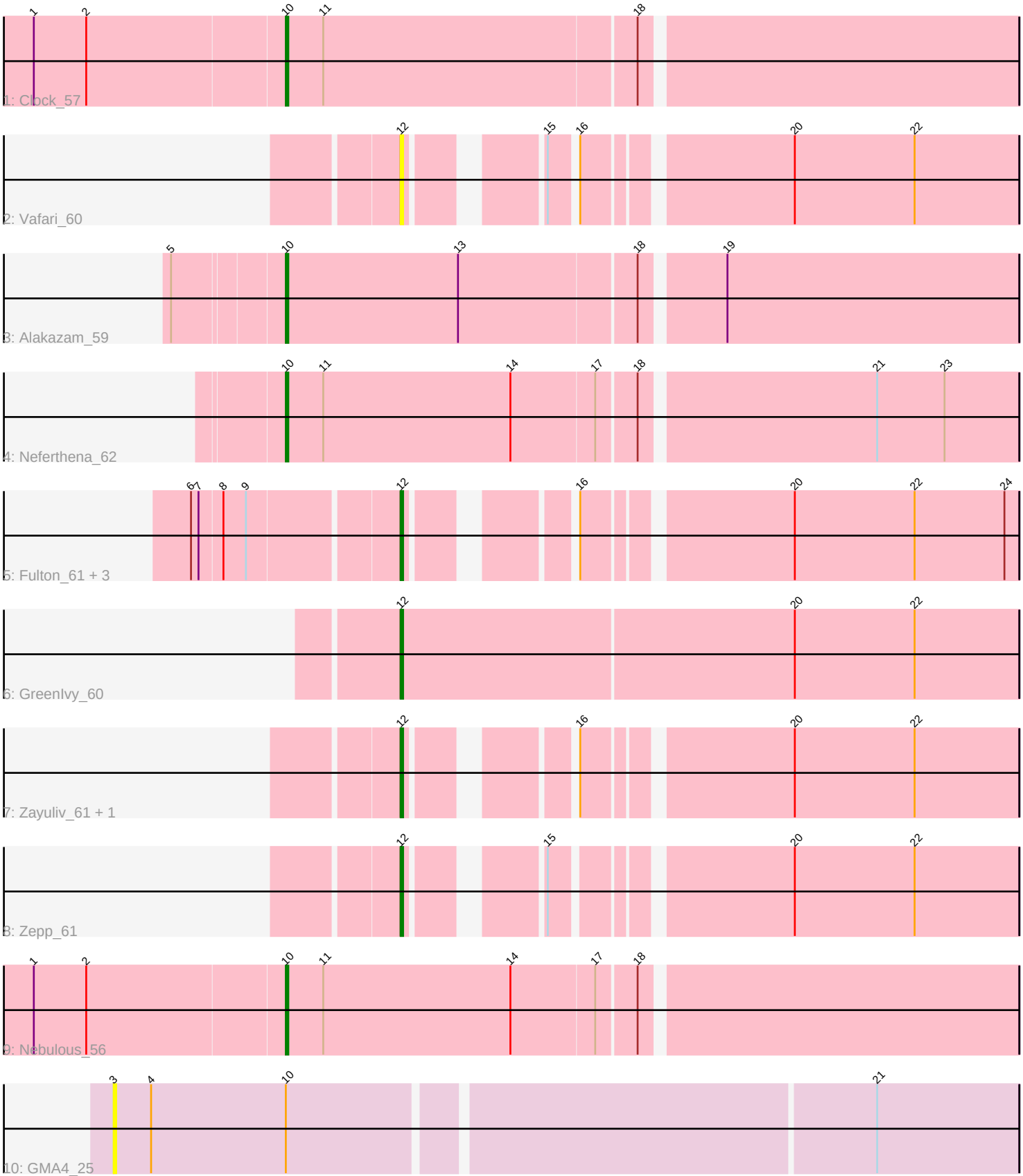
# Pham 348161


1
2
10
11
18
1: Clock_57
12
15
16
20
22
2: Vafari_60
5
10
13
18
19
3: Alakazam_59
10
11
14
17
18
21
23
4: Neferthena_62
6
7
8
9
12
16
20
22
24
5: Fulton_61 + 3
12
20
22
6: GreenIvy_60
12
16
20
22
7: Zayuliv_61 + 1
12
15
20
22
8: Zepp_61
1
2
10
11
14
17
18
9: Nebulous_56
3
4
10
21
10: GMA4_25

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 348161 Report

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

Pham number 348161 has 14 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Clock_57
• Track 2 : Vafari_60
• Track 3 : Alakazam_59
• Track 4 : Neferthena_62
• Track 5 : Fulton_61, Librie_61, CaptainRex_61, Hasitha_61
• Track 6 : GreenIvy_60
• Track 7 : Zayuliv_61, QuadZero_61
• Track 8 : Zepp_61
• Track 9 : Nebulous_56
• Track 10 : GMA4_25

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

The start number called the most often in the published annotations is 12, it was called in 8 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• CaptainRex_61, Fulton_61, GreenIvy_60, Hasitha_61, Librie_61, QuadZero_61, Vafari_60, Zayuliv_61, Zepp_61,

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

Genes that do not have the "Most Annotated" start:
• Alakazam_59, Clock_57, GMA4_25, Nebulous_56, Neferthena_62,

**Summary by start number:**

Start 3:
• Found in 1 of 14 ( 7.1% ) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GMA4_25 (singleton),

Start 10:
• Found in 5 of 14 ( 35.7% ) of genes in pham
• Manual Annotations of this start: 4 of 12
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Alakazam_59 (EA5), Clock_57 (EA5), Nebulous_56 (EA5), Neferthena_62 (EA5),

Start 12:
• Found in 9 of 14 ( 64.3% ) of genes in pham
• Manual Annotations of this start: 8 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CaptainRex_61 (EA5), Fulton_61 (EA5), GreenIvy_60 (EA5), Hasitha_61 (EA5), Librie_61 (EA5), QuadZero_61 (EA5), Vafari_60 (EA5), Zayuliv_61 (EA5), Zepp_61 (EA5),

**Summary by clusters:**

There are 2 clusters represented in this pham: singleton, EA5,

Info for manual annotations of cluster EA5:
•Start number 10 was manually annotated 4 times for cluster EA5.
•Start number 12 was manually annotated 8 times for cluster EA5.

***Gene Information:***

Gene: Alakazam_59 Start: 40230, Stop: 40514, Start Num: 10
Candidate Starts for Alakazam_59:
(5, 40188), (Start: 10 @40230 has 4 MA's), (13, 40299), (18, 40368), (19, 40398),

Gene: CaptainRex_61 Start: 39013, Stop: 39228, Start Num: 12
Candidate Starts for CaptainRex_61:
(6, 38935), (7, 38938), (8, 38947), (9, 38956), (Start: 12 @39013 has 8 MA's), (16, 39064), (20, 39139), (22, 39187), (24, 39223),

Gene: Clock_57 Start: 40673, Stop: 40957, Start Num: 10
Candidate Starts for Clock_57:
(1, 40574), (2, 40595), (Start: 10 @40673 has 4 MA's), (11, 40688), (18, 40811),

Gene: Fulton_61 Start: 39014, Stop: 39229, Start Num: 12
Candidate Starts for Fulton_61:
(6, 38936), (7, 38939), (8, 38948), (9, 38957), (Start: 12 @39014 has 8 MA's), (16, 39065), (20, 39140), (22, 39188), (24, 39224),

Gene: GMA4_25 Start: 22749, Stop: 22399, Start Num: 3
Candidate Starts for GMA4_25:
(3, 22749), (4, 22734), (Start: 10 @22680 has 4 MA's), (21, 22455),

Gene: GreenIvy_60 Start: 39358, Stop: 39603, Start Num: 12
Candidate Starts for GreenIvy_60:
(Start: 12 @39358 has 8 MA's), (20, 39514), (22, 39562),

Gene: Hasitha_61 Start: 39024, Stop: 39239, Start Num: 12
Candidate Starts for Hasitha_61:
(6, 38946), (7, 38949), (8, 38958), (9, 38967), (Start: 12 @39024 has 8 MA's), (16, 39075), (20, 39150), (22, 39198), (24, 39234),

Gene: Librie_61 Start: 39013, Stop: 39228, Start Num: 12
Candidate Starts for Librie_61:
(6, 38935), (7, 38938), (8, 38947), (9, 38956), (Start: 12 @39013 has 8 MA's), (16, 39064), (20, 39139), (22, 39187), (24, 39223),

Gene: Nebulous_56 Start: 40430, Stop: 40714, Start Num: 10
Candidate Starts for Nebulous_56:
(1, 40331), (2, 40352), (Start: 10 @40430 has 4 MA's), (11, 40445), (14, 40520), (17, 40553), (18, 40568),

Gene: Neferthena_62 Start: 40624, Stop: 40908, Start Num: 10
Candidate Starts for Neferthena_62:
(Start: 10 @40624 has 4 MA's), (11, 40639), (14, 40714), (17, 40747), (18, 40762), (21, 40852), (23, 40879),

Gene: QuadZero_61 Start: 39116, Stop: 39331, Start Num: 12
Candidate Starts for QuadZero_61:
(Start: 12 @39116 has 8 MA's), (16, 39167), (20, 39242), (22, 39290),

Gene: Vafari_60 Start: 39037, Stop: 39252, Start Num: 12
Candidate Starts for Vafari_60:
(Start: 12 @39037 has 8 MA's), (15, 39079), (16, 39088), (20, 39163), (22, 39211),

Gene: Zayuliv_61 Start: 39687, Stop: 39902, Start Num: 12
Candidate Starts for Zayuliv_61:
(Start: 12 @39687 has 8 MA's), (16, 39738), (20, 39813), (22, 39861),

Gene: Zepp_61 Start: 39245, Stop: 39460, Start Num: 12
Candidate Starts for Zepp_61:
(Start: 12 @39245 has 8 MA's), (15, 39287), (20, 39371), (22, 39419),