# Pham 265677

1: Schimmels22_60
2: WestPM_59
3: Neferthena_63
4: Alakazam_60
5: Nebulous_57
6: Clock_58

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 265677 Report

This analysis was run 02/07/26 on database version 634.

Pham number 265677 has 6 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Schimmels22_60
• Track 2 : WestPM_59
• Track 3 : Neferthena_63
• Track 4 : Alakazam_60
• Track 5 : Nebulous_57
• Track 6 : Clock_58

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

The start number called the most often in the published annotations is 26, it was called in 6 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Alakazam_60, Clock_58, Nebulous_57, Neferthena_63, Schimmels22_60, WestPM_59,

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

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

**Summary by start number:**

Start 26:
• Found in 6 of 6 ( 100.0% ) of genes in pham
• Manual Annotations of this start: 6 of 6
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alakazam_60 (EA5), Clock_58 (EA5), Nebulous_57 (EA5), Neferthena_63 (EA5), Schimmels22_60 (EA11), WestPM_59 (EA11),

**Summary by clusters:**

There are 2 clusters represented in this pham: EA11, EA5,

Info for manual annotations of cluster EA11:
•Start number 26 was manually annotated 2 times for cluster EA11.

Info for manual annotations of cluster EA5:
•Start number 26 was manually annotated 4 times for cluster EA5.

### *Gene Information:*

Gene: Alakazam_60 Start: 40514, Stop: 41098, Start Num: 26
Candidate Starts for Alakazam_60:
(24, 40433), (Start: 26 @40514 has 6 MA's), (32, 40610), (37, 40736), (38, 40748), (43, 40790), (46, 40814), (47, 40826), (48, 40841), (49, 40868), (50, 40913), (54, 40964), (57, 41045), (58, 41051), (59, 41072),

Gene: Clock_58 Start: 40957, Stop: 41472, Start Num: 26
Candidate Starts for Clock_58:
(23, 40864), (24, 40876), (Start: 26 @40957 has 6 MA's), (27, 40966), (39, 41128), (42, 41149), (44, 41170), (47, 41200), (49, 41242), (53, 41317), (55, 41398), (56, 41401), (57, 41422), (58, 41428), (59, 41449), (60, 41452),

Gene: Nebulous_57 Start: 40714, Stop: 41241, Start Num: 26
Candidate Starts for Nebulous_57:
(23, 40621), (24, 40633), (Start: 26 @40714 has 6 MA's), (28, 40729), (30, 40747), (39, 40897), (42, 40918), (47, 40969), (49, 41011), (53, 41086), (55, 41167), (56, 41170), (57, 41191), (58, 41197), (59, 41218), (60, 41221),

Gene: Neferthena_63 Start: 40908, Stop: 41468, Start Num: 26
Candidate Starts for Neferthena_63:
(23, 40815), (24, 40827), (25, 40854), (Start: 26 @40908 has 6 MA's), (28, 40923), (29, 40932), (30, 40941), (31, 40983), (33, 41073), (42, 41145), (49, 41238), (51, 41286), (53, 41313), (55, 41394), (57, 41418), (58, 41424), (59, 41445), (61, 41463),

Gene: Schimmels22_60 Start: 38999, Stop: 39520, Start Num: 26
Candidate Starts for Schimmels22_60:
(1, 38135), (2, 38144), (3, 38168), (4, 38174), (5, 38177), (6, 38189), (7, 38198), (8, 38204), (9, 38273), (10, 38285), (11, 38309), (12, 38345), (13, 38354), (14, 38369), (15, 38375), (16, 38402), (17, 38429), (18, 38531), (19, 38633), (20, 38705), (21, 38729), (22, 38750), (Start: 26 @38999 has 6 MA's), (34, 39125), (35, 39128), (36, 39146), (40, 39185), (41, 39191), (44, 39215), (45, 39221), (48, 39260), (53, 39368), (57, 39470), (58, 39476), (59, 39497),

Gene: WestPM_59 Start: 38858, Stop: 39406, Start Num: 26
Candidate Starts for WestPM_59:
(18, 38390), (19, 38492), (20, 38564), (21, 38588), (22, 38609), (Start: 26 @38858 has 6 MA's), (34, 38984), (35, 38987), (40, 39071), (41, 39077), (44, 39101), (45, 39107), (48, 39146), (52, 39233), (53, 39254), (57, 39356), (58, 39362), (59, 39383),