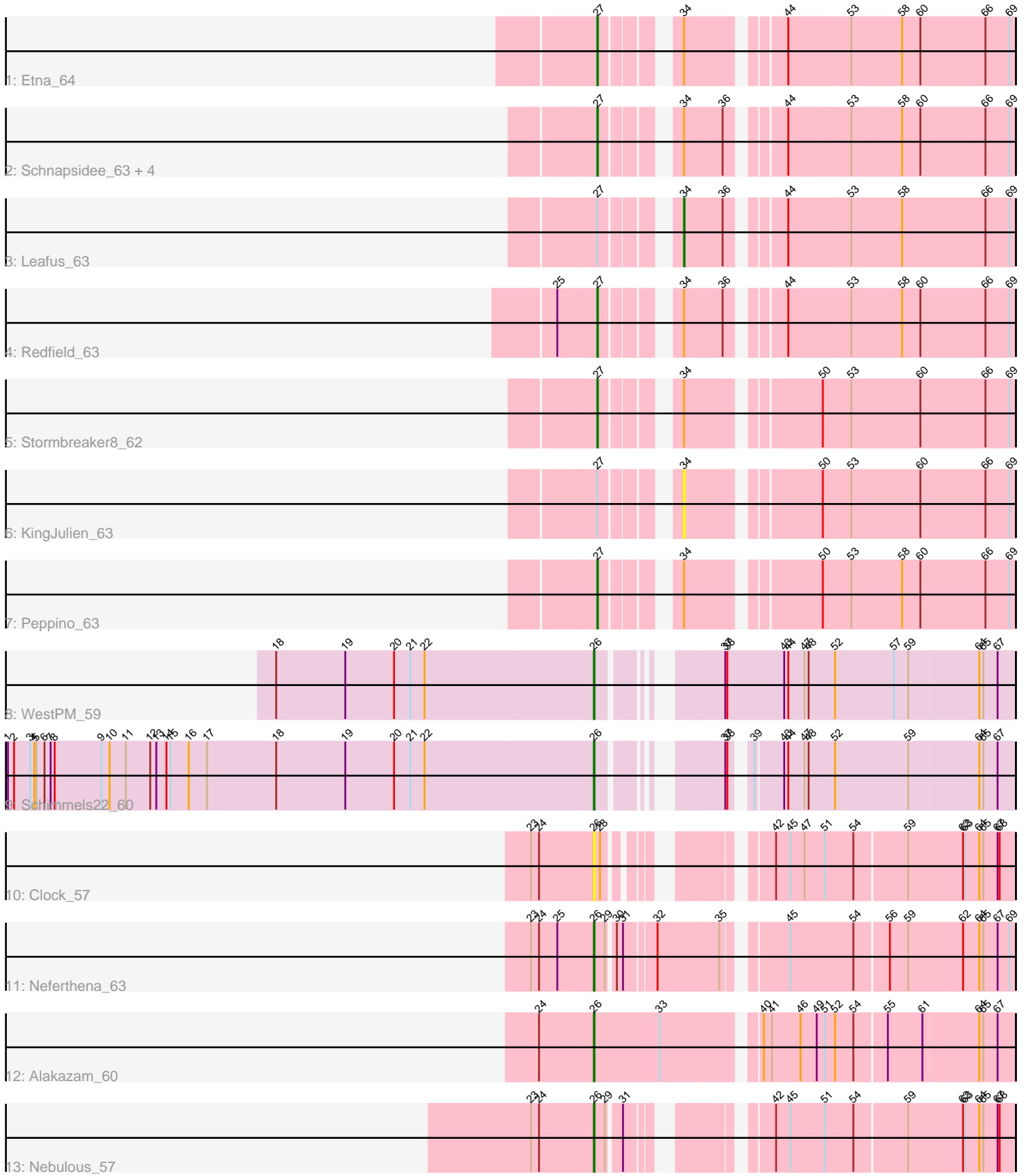


Pham 171835



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 171835 Report

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

Pham number 171835 has 17 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Etna_64
- Track 2 : Schnapsidee_63, BeeBee8_65, Hamlet_63, Balsa_62, Raccoon_63
- Track 3 : Leafus_63
- Track 4 : Redfield_63
- Track 5 : Stormbreaker8_62
- Track 6 : KingJulien_63
- Track 7 : Peppino_63
- Track 8 : WestPM_59
- Track 9 : Schimmels22_60
- Track 10 : Clock_57
- Track 11 : Neferthena_63
- Track 12 : Alakazam_60
- Track 13 : Nebulous_57

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

The start number called the most often in the published annotations is 27, it was called in 9 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Balsa_62, BeeBee8_65, Etna_64, Hamlet_63, Peppino_63, Raccoon_63, Redfield_63, Schnapsidee_63, Stormbreaker8_62,

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

- KingJulien_63, Leafus_63,

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

- Alakazam_60, Clock_57, Nebulous_57, Neferthena_63, Schimmels22_60, WestPM_59,

Summary by start number:

Start 26:

- Found in 6 of 17 (35.3%) of genes in pham

- Manual Annotations of this start: 5 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alakazam_60 (EA5), Clock_57 (EA5), Nebulous_57 (EA5), Neferthena_63 (EA5), Schimmels22_60 (EA11), WestPM_59 (EA11),

Start 27:

- Found in 11 of 17 (64.7%) of genes in pham
- Manual Annotations of this start: 9 of 15
- Called 81.8% of time when present
- Phage (with cluster) where this start called: Balsa_62 (EA1), BeeBee8_65 (EA1), Etna_64 (EA1), Hamlet_63 (EA1), Peppino_63 (EA1), Raccoon_63 (EA1), Redfield_63 (EA1), Schnapsidee_63 (EA1), Stormbreaker8_62 (EA1),

Start 34:

- Found in 11 of 17 (64.7%) of genes in pham
- Manual Annotations of this start: 1 of 15
- Called 18.2% of time when present
- Phage (with cluster) where this start called: KingJulien_63 (EA1), Leafus_63 (EA1),

Summary by clusters:

There are 3 clusters represented in this pham: EA1, EA5, EA11,

Info for manual annotations of cluster EA1:

- Start number 27 was manually annotated 9 times for cluster EA1.
- Start number 34 was manually annotated 1 time for cluster EA1.

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 3 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 5 MA's), (33, 40610), (40, 40736), (41, 40748), (46, 40790), (49, 40814), (51, 40826), (52, 40841), (54, 40868), (55, 40913), (61, 40964), (64, 41045), (65, 41051), (67, 41072),

Gene: Balsa_62 Start: 41165, Stop: 41695, Start Num: 27

Candidate Starts for Balsa_62:

(Start: 27 @41165 has 9 MA's), (Start: 34 @41246 has 1 MA's), (36, 41303), (44, 41366), (53, 41456), (58, 41531), (60, 41558), (66, 41654), (69, 41690),

Gene: BeeBee8_65 Start: 41330, Stop: 41860, Start Num: 27

Candidate Starts for BeeBee8_65:

(Start: 27 @41330 has 9 MA's), (Start: 34 @41411 has 1 MA's), (36, 41468), (44, 41531), (53, 41621), (58, 41696), (60, 41723), (66, 41819), (69, 41855),

Gene: Clock_57 Start: 40957, Stop: 41472, Start Num: 26

Candidate Starts for Clock_57:

(23, 40864), (24, 40876), (Start: 26 @40957 has 5 MA's), (28, 40966), (42, 41128), (45, 41149), (47, 41170), (51, 41200), (54, 41242), (59, 41317), (62, 41398), (63, 41401), (64, 41422), (65, 41428), (67, 41449), (68, 41452),

Gene: Etna_64 Start: 41211, Stop: 41741, Start Num: 27

Candidate Starts for Etna_64:

(Start: 27 @41211 has 9 MA's), (Start: 34 @41292 has 1 MA's), (44, 41412), (53, 41502), (58, 41577), (60, 41604), (66, 41700), (69, 41736),

Gene: Hamlet_63 Start: 41237, Stop: 41767, Start Num: 27

Candidate Starts for Hamlet_63:

(Start: 27 @41237 has 9 MA's), (Start: 34 @41318 has 1 MA's), (36, 41375), (44, 41438), (53, 41528), (58, 41603), (60, 41630), (66, 41726), (69, 41762),

Gene: KingJulien_63 Start: 41134, Stop: 41583, Start Num: 34

Candidate Starts for KingJulien_63:

(Start: 27 @41053 has 9 MA's), (Start: 34 @41134 has 1 MA's), (50, 41305), (53, 41344), (60, 41446), (66, 41542), (69, 41578),

Gene: Leafus_63 Start: 41384, Stop: 41833, Start Num: 34

Candidate Starts for Leafus_63:

(Start: 27 @41303 has 9 MA's), (Start: 34 @41384 has 1 MA's), (36, 41441), (44, 41504), (53, 41594), (58, 41669), (66, 41792), (69, 41828),

Gene: Nebulous_57 Start: 40714, Stop: 41241, Start Num: 26

Candidate Starts for Nebulous_57:

(23, 40621), (24, 40633), (Start: 26 @40714 has 5 MA's), (29, 40729), (31, 40747), (42, 40897), (45, 40918), (51, 40969), (54, 41011), (59, 41086), (62, 41167), (63, 41170), (64, 41191), (65, 41197), (67, 41218), (68, 41221),

Gene: Neferthema_63 Start: 40908, Stop: 41468, Start Num: 26

Candidate Starts for Neferthema_63:

(23, 40815), (24, 40827), (25, 40854), (Start: 26 @40908 has 5 MA's), (29, 40923), (30, 40932), (31, 40941), (32, 40983), (35, 41073), (45, 41145), (54, 41238), (56, 41286), (59, 41313), (62, 41394), (64, 41418), (65, 41424), (67, 41445), (69, 41463),

Gene: Peppino_63 Start: 41235, Stop: 41765, Start Num: 27

Candidate Starts for Peppino_63:

(Start: 27 @41235 has 9 MA's), (Start: 34 @41316 has 1 MA's), (50, 41487), (53, 41526), (58, 41601), (60, 41628), (66, 41724), (69, 41760),

Gene: Raccoon_63 Start: 41197, Stop: 41727, Start Num: 27

Candidate Starts for Raccoon_63:

(Start: 27 @41197 has 9 MA's), (Start: 34 @41278 has 1 MA's), (36, 41335), (44, 41398), (53, 41488), (58, 41563), (60, 41590), (66, 41686), (69, 41722),

Gene: Redfield_63 Start: 41233, Stop: 41763, Start Num: 27

Candidate Starts for Redfield_63:

(25, 41176), (Start: 27 @41233 has 9 MA's), (Start: 34 @41314 has 1 MA's), (36, 41371), (44, 41434), (53, 41524), (58, 41599), (60, 41626), (66, 41722), (69, 41758),

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 5 MA's), (37, 39125), (38, 39128), (39, 39146), (43, 39185), (44, 39191), (47, 39215), (48, 39221), (52, 39260), (59, 39368), (64, 39470), (65, 39476), (67, 39497),

Gene: Schnapsidee_63 Start: 41175, Stop: 41705, Start Num: 27

Candidate Starts for Schnapsidee_63:

(Start: 27 @41175 has 9 MA's), (Start: 34 @41256 has 1 MA's), (36, 41313), (44, 41376), (53, 41466), (58, 41541), (60, 41568), (66, 41664), (69, 41700),

Gene: Stormbreaker8_62 Start: 41054, Stop: 41584, Start Num: 27

Candidate Starts for Stormbreaker8_62:

(Start: 27 @41054 has 9 MA's), (Start: 34 @41135 has 1 MA's), (50, 41306), (53, 41345), (60, 41447), (66, 41543), (69, 41579),

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 5 MA's), (37, 38984), (38, 38987), (43, 39071), (44, 39077), (47, 39101), (48, 39107), (52, 39146), (57, 39233), (59, 39254), (64, 39356), (65, 39362), (67, 39383),