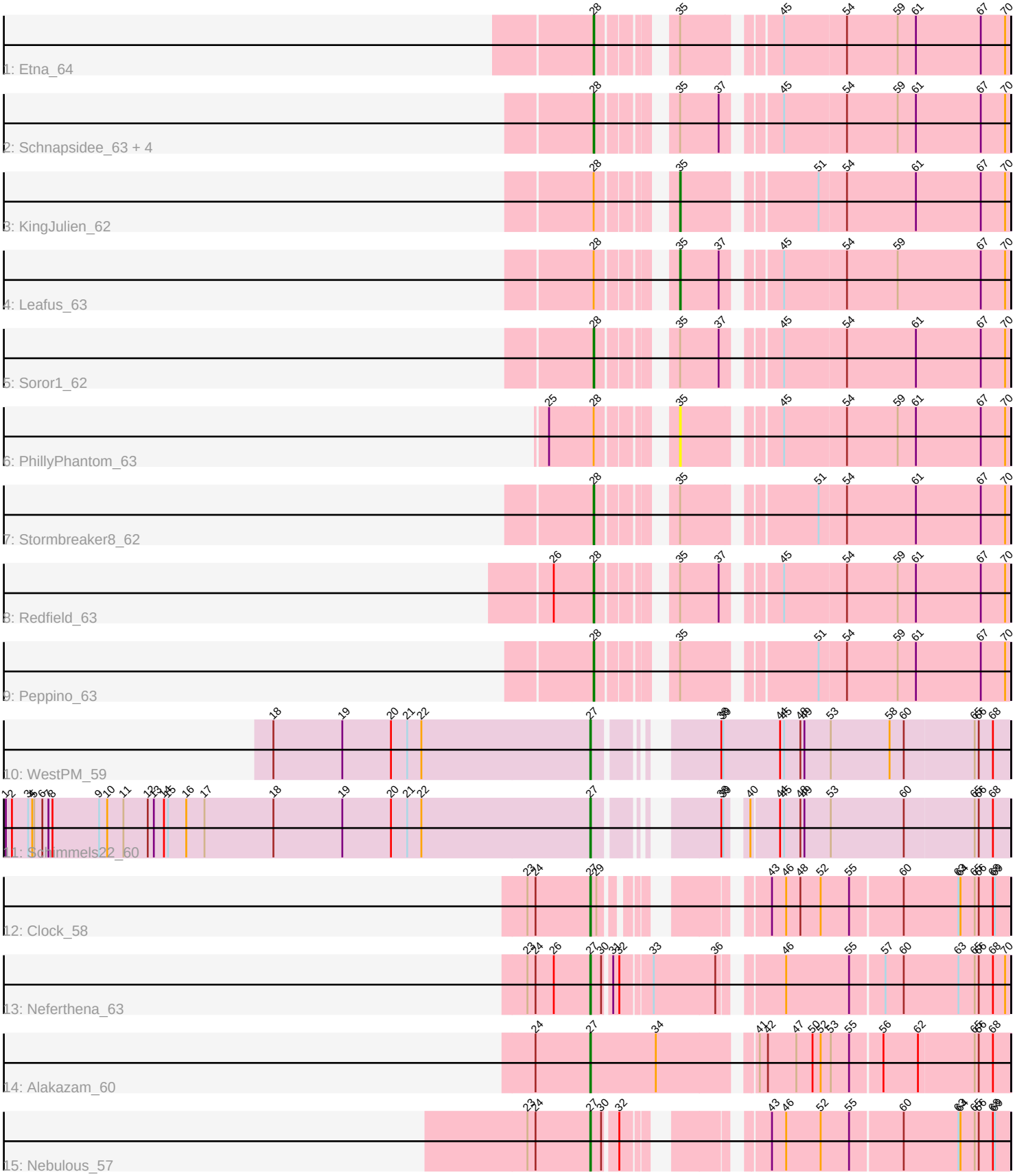
Pham 348085


1: Etna_64
2: Schnapsidee_63 + 4
3: KingJulien_62
4: Leafus_63
5: Soror1_62
6: PhillyPhantom_63
7: Stormbreaker8_62
8: Redfield_63
9: Peppino_63
10: WestPM_59
11: Schimmels22_60
12: Clock_58
13: Neferthena_63
14: Alakazam_60
15: Nebulous_57

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 348085 Report

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

Pham number 348085 has 19 members, 1 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 : KingJulien_62
• Track 4 : Leafus_63
• Track 5 : Soror1_62
• Track 6 : PhillyPhantom_63
• Track 7 : Stormbreaker8_62
• Track 8 : Redfield_63
• Track 9 : Peppino_63
• Track 10 : WestPM_59
• Track 11 : Schimmels22_60
• Track 12 : Clock_58
• Track 13 : Neferthena_63
• Track 14 : Alakazam_60
• Track 15 : 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 28, it was called in 10 of the 18 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, Soror1_62, Stormbreaker8_62,

Genes that have the "Most Annotated" start but do not call it:
• KingJulien_62, Leafus_63, PhillyPhantom_63,

Genes that do not have the "Most Annotated" start:
• Alakazam_60, Clock_58, Nebulous_57, Neferthena_63, Schimmels22_60, WestPM_59,

Summary by start number:

Start 27:
• Found in 6 of 19 (31.6%) of genes in pham
• Manual Annotations of this start: 6 of 18
• 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),

Start 28:
• Found in 13 of 19 (68.4%) of genes in pham
• Manual Annotations of this start: 10 of 18
• Called 76.9% 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), Soror1_62 (EA1), Stormbreaker8_62 (EA1),

Start 35:
• Found in 13 of 19 (68.4%) of genes in pham
• Manual Annotations of this start: 2 of 18
• Called 23.1% of time when present
• Phage (with cluster) where this start called: KingJulien_62 (EA1), Leafus_63 (EA1), PhillyPhantom_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 28 was manually annotated 10 times for cluster EA1.
•Start number 35 was manually annotated 2 times for cluster EA1.

Info for manual annotations of cluster EA11:
•Start number 27 was manually annotated 2 times for cluster EA11.

Info for manual annotations of cluster EA5:
•Start number 27 was manually annotated 4 times for cluster EA5.

Gene Information:

Gene: Alakazam_60 Start: 40514, Stop: 41098, Start Num: 27
Candidate Starts for Alakazam_60:
(24, 40433), (Start: 27 @40514 has 6 MA's), (34, 40610), (41, 40736), (42, 40748), (47, 40790), (50, 40814), (52, 40826), (53, 40841), (55, 40868), (56, 40913), (62, 40964), (65, 41045), (66, 41051), (68, 41072),

Gene: Balsa_62 Start: 41165, Stop: 41695, Start Num: 28
Candidate Starts for Balsa_62:
(Start: 28 @41165 has 10 MA's), (Start: 35 @41246 has 2 MA's), (37, 41303), (45, 41366), (54, 41456), (59, 41531), (61, 41558), (67, 41654), (70, 41690),

Gene: BeeBee8_65 Start: 41330, Stop: 41860, Start Num: 28
Candidate Starts for BeeBee8_65:
(Start: 28 @41330 has 10 MA's), (Start: 35 @41411 has 2 MA's), (37, 41468), (45, 41531), (54, 41621), (59, 41696), (61, 41723), (67, 41819), (70, 41855),

Gene: Clock_58 Start: 40957, Stop: 41472, Start Num: 27
Candidate Starts for Clock_58:
(23, 40864), (24, 40876), (Start: 27 @40957 has 6 MA's), (29, 40966), (43, 41128), (46, 41149), (48, 41170), (52, 41200), (55, 41242), (60, 41317), (63, 41398), (64, 41401), (65, 41422), (66, 41428), (68, 41449), (69, 41452),

Gene: Etna_64 Start: 41211, Stop: 41741, Start Num: 28
Candidate Starts for Etna_64:
(Start: 28 @41211 has 10 MA's), (Start: 35 @41292 has 2 MA's), (45, 41412), (54, 41502), (59, 41577), (61, 41604), (67, 41700), (70, 41736),

Gene: Hamlet_63 Start: 41237, Stop: 41767, Start Num: 28
Candidate Starts for Hamlet_63:
(Start: 28 @41237 has 10 MA's), (Start: 35 @41318 has 2 MA's), (37, 41375), (45, 41438), (54, 41528), (59, 41603), (61, 41630), (67, 41726), (70, 41762),

Gene: KingJulien_62 Start: 41134, Stop: 41583, Start Num: 35
Candidate Starts for KingJulien_62:
(Start: 28 @41053 has 10 MA's), (Start: 35 @41134 has 2 MA's), (51, 41305), (54, 41344), (61, 41446), (67, 41542), (70, 41578),

Gene: Leafus_63 Start: 41384, Stop: 41833, Start Num: 35
Candidate Starts for Leafus_63:
(Start: 28 @41303 has 10 MA's), (Start: 35 @41384 has 2 MA's), (37, 41441), (45, 41504), (54, 41594), (59, 41669), (67, 41792), (70, 41828),

Gene: Nebulous_57 Start: 40714, Stop: 41241, Start Num: 27
Candidate Starts for Nebulous_57:
(23, 40621), (24, 40633), (Start: 27 @40714 has 6 MA's), (30, 40729), (32, 40747), (43, 40897), (46, 40918), (52, 40969), (55, 41011), (60, 41086), (63, 41167), (64, 41170), (65, 41191), (66, 41197), (68, 41218), (69, 41221),

Gene: Neferthena_63 Start: 40908, Stop: 41468, Start Num: 27
Candidate Starts for Neferthena_63:
(23, 40815), (24, 40827), (26, 40854), (Start: 27 @40908 has 6 MA's), (30, 40923), (31, 40932), (32, 40941), (33, 40983), (36, 41073), (46, 41145), (55, 41238), (57, 41286), (60, 41313), (63, 41394), (65, 41418), (66, 41424), (68, 41445), (70, 41463),

Gene: Peppino_63 Start: 41235, Stop: 41765, Start Num: 28
Candidate Starts for Peppino_63:
(Start: 28 @41235 has 10 MA's), (Start: 35 @41316 has 2 MA's), (51, 41487), (54, 41526), (59, 41601), (61, 41628), (67, 41724), (70, 41760),

Gene: PhillyPhantom_63 Start: 41205, Stop: 41654, Start Num: 35
Candidate Starts for PhillyPhantom_63:
(25, 41061), (Start: 28 @41124 has 10 MA's), (Start: 35 @41205 has 2 MA's), (45, 41325), (54, 41415), (59, 41490), (61, 41517), (67, 41613), (70, 41649),

Gene: Raccoon_63 Start: 41197, Stop: 41727, Start Num: 28
Candidate Starts for Raccoon_63:
(Start: 28 @41197 has 10 MA's), (Start: 35 @41278 has 2 MA's), (37, 41335), (45, 41398), (54, 41488), (59, 41563), (61, 41590), (67, 41686), (70, 41722),

Gene: Redfield_63 Start: 41233, Stop: 41763, Start Num: 28
Candidate Starts for Redfield_63:
(26, 41176), (Start: 28 @41233 has 10 MA's), (Start: 35 @41314 has 2 MA's), (37, 41371), (45, 41434), (54, 41524), (59, 41599), (61, 41626), (67, 41722), (70, 41758),

Gene: Schimmels22_60 Start: 38999, Stop: 39520, Start Num: 27
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: 27 @38999 has 6 MA's), (38, 39125), (39, 39128), (40, 39146), (44, 39185), (45, 39191), (48, 39215), (49, 39221), (53, 39260), (60, 39368), (65, 39470), (66, 39476), (68, 39497),

Gene: Schnapsidee_63 Start: 41175, Stop: 41705, Start Num: 28
Candidate Starts for Schnapsidee_63:
(Start: 28 @41175 has 10 MA's), (Start: 35 @41256 has 2 MA's), (37, 41313), (45, 41376), (54, 41466), (59, 41541), (61, 41568), (67, 41664), (70, 41700),

Gene: Soror1_62 Start: 41047, Stop: 41577, Start Num: 28
Candidate Starts for Soror1_62:
(Start: 28 @41047 has 10 MA's), (Start: 35 @41128 has 2 MA's), (37, 41185), (45, 41248), (54, 41338), (61, 41440), (67, 41536), (70, 41572),

Gene: Stormbreaker8_62 Start: 41054, Stop: 41584, Start Num: 28
Candidate Starts for Stormbreaker8_62:
(Start: 28 @41054 has 10 MA's), (Start: 35 @41135 has 2 MA's), (51, 41306), (54, 41345), (61, 41447), (67, 41543), (70, 41579),

Gene: WestPM_59 Start: 38858, Stop: 39406, Start Num: 27
Candidate Starts for WestPM_59:
(18, 38390), (19, 38492), (20, 38564), (21, 38588), (22, 38609), (Start: 27 @38858 has 6 MA's), (38, 38984), (39, 38987), (44, 39071), (45, 39077), (48, 39101), (49, 39107), (53, 39146), (58, 39233), (60, 39254), (65, 39356), (66, 39362), (68, 39383),