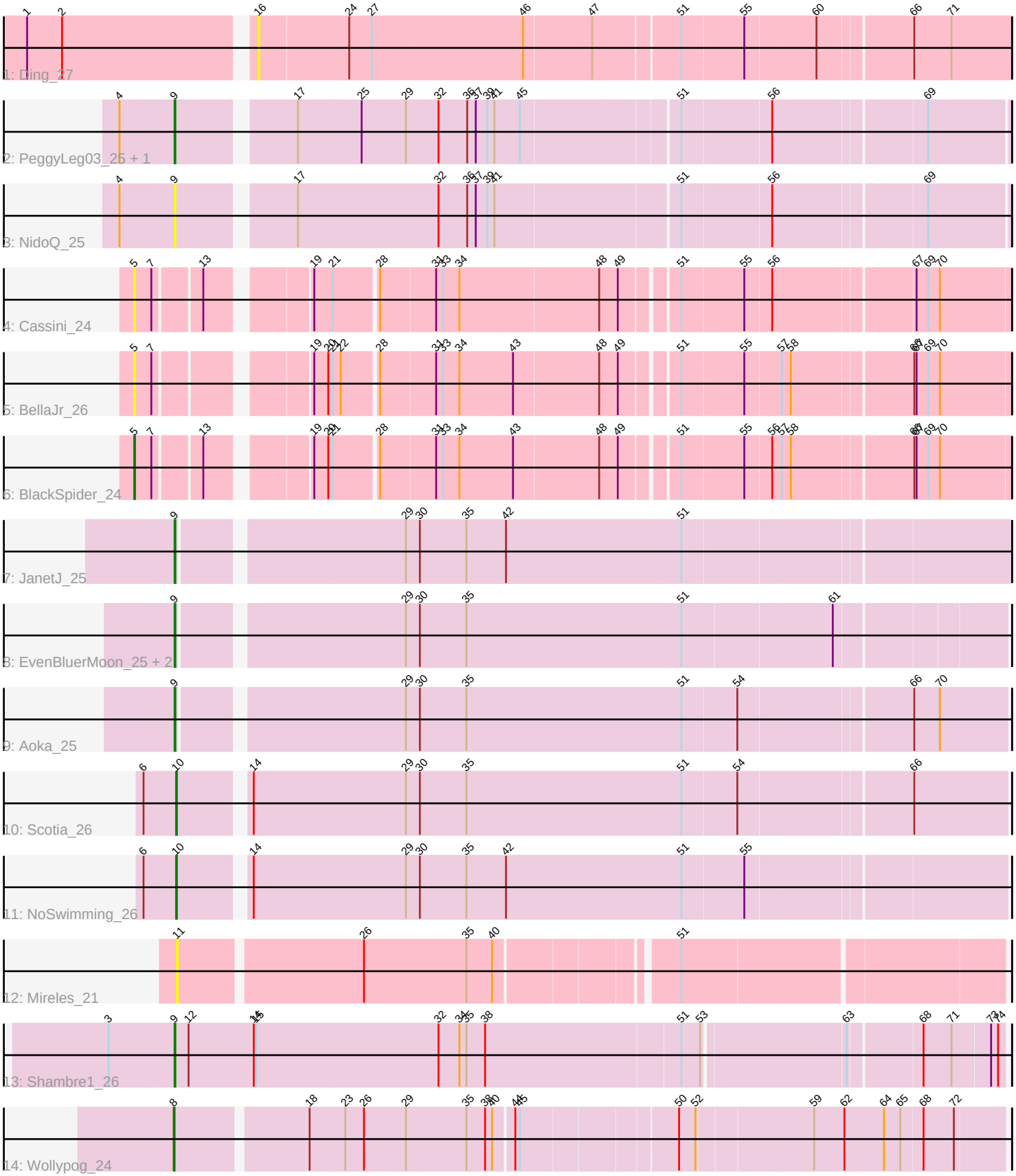
Pham 287154


1: Ding_27
2: PeggyLeg03_25 + 1
3: NidoQ_25
4: Cassini_24
5: BellaJr_26
6: BlackSpider_24
7: JanetJ_25
8: EvenBluerMoon_25 + 2
9: Aoka_25
10: Scotia_26
11: NoSwimming_26
12: Mireles_21
13: Shambre1_26
14: Wollypog_24

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 287154 Report

This analysis was run 03/28/26 on database version 641.

Pham number 287154 has 17 members, 6 are drafts.

Phages represented in each track:
• Track 1 : Ding_27
• Track 2 : PeggyLeg03_25, Constance_25
• Track 3 : NidoQ_25
• Track 4 : Cassini_24
• Track 5 : BellaJr_26
• Track 6 : BlackSpider_24
• Track 7 : JanetJ_25
• Track 8 : EvenBluerMoon_25, Hereford_36, PrairieDogTown_25
• Track 9 : Aoka_25
• Track 10 : Scotia_26
• Track 11 : NoSwimming_26
• Track 12 : Mireles_21
• Track 13 : Shambre1_26
• Track 14 : Wollypog_24

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

The start number called the most often in the published annotations is 9, it was called in 7 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aoka_25, Constance_25, EvenBluerMoon_25, Hereford_36, JanetJ_25, NidoQ_25, PeggyLeg03_25, PrairieDogTown_25, Shambre1_26,

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

Genes that do not have the "Most Annotated" start:
• BellaJr_26, BlackSpider_24, Cassini_24, Ding_27, Mireles_21, NoSwimming_26, Scotia_26, Wollypog_24,

Summary by start number:

Start 5:

• Found in 3 of 17 (17.6%) of genes in pham
• Manual Annotations of this start: 1 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BellaJr_26 (FN), BlackSpider_24 (FN), Cassini_24 (FN),

Start 8:
• Found in 1 of 17 (5.9%) of genes in pham
• Manual Annotations of this start: 1 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Wollypog_24 (singleton),

Start 9:
• Found in 9 of 17 (52.9%) of genes in pham
• Manual Annotations of this start: 7 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aoka_25 (FO), Constance_25 (FA), EvenBluerMoon_25 (FO), Hereford_36 (FO), JanetJ_25 (FO), NidoQ_25 (FA), PeggyLeg03_25 (FA), PrairieDogTown_25 (FO), Shambre1_26 (singleton),

Start 10:
• Found in 2 of 17 (11.8%) of genes in pham
• Manual Annotations of this start: 2 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: NoSwimming_26 (FO), Scotia_26 (FO),

Start 11:
• Found in 1 of 17 (5.9%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Mireles_21 (FR),

Start 16:
• Found in 1 of 17 (5.9%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ding_27 (AY),

Summary by clusters:

There are 6 clusters represented in this pham: singleton, FR, FA, AY, FN, FO,

Info for manual annotations of cluster FA:
•Start number 9 was manually annotated 2 times for cluster FA.

Info for manual annotations of cluster FN:
•Start number 5 was manually annotated 1 time for cluster FN.

Info for manual annotations of cluster FO:
•Start number 9 was manually annotated 4 times for cluster FO.
•Start number 10 was manually annotated 2 times for cluster FO.

Gene Information:

Gene: Aoka_25 Start: 22246, Stop: 23265, Start Num: 9
Candidate Starts for Aoka_25:
(Start: 9 @22246 has 7 MA's), (29, 22516), (30, 22534), (35, 22594), (51, 22870), (54, 22939), (66, 23146), (70, 23179),

Gene: BellaJr_26 Start: 20275, Stop: 21285, Start Num: 5
Candidate Starts for BellaJr_26:
(Start: 5 @20275 has 1 MA's), (7, 20296), (19, 20461), (20, 20479), (21, 20485), (22, 20494), (28, 20533), (31, 20602), (33, 20611), (34, 20632), (43, 20698), (48, 20803), (49, 20824), (51, 20887), (55, 20965), (57, 21007), (58, 21019), (66, 21163), (67, 21166), (69, 21181), (70, 21196),

Gene: BlackSpider_24 Start: 19133, Stop: 20143, Start Num: 5
Candidate Starts for BlackSpider_24:
(Start: 5 @19133 has 1 MA's), (7, 19154), (13, 19208), (19, 19319), (20, 19337), (21, 19343), (28, 19391), (31, 19460), (33, 19469), (34, 19490), (43, 19556), (48, 19661), (49, 19682), (51, 19745), (55, 19823), (56, 19856), (57, 19865), (58, 19877), (66, 20021), (67, 20024), (69, 20039), (70, 20054),

Gene: Cassini_24 Start: 19370, Stop: 20380, Start Num: 5
Candidate Starts for Cassini_24:
(Start: 5 @19370 has 1 MA's), (7, 19391), (13, 19445), (19, 19556), (21, 19580), (28, 19628), (31, 19697), (33, 19706), (34, 19727), (48, 19898), (49, 19919), (51, 19982), (55, 20060), (56, 20093), (67, 20261), (69, 20276), (70, 20291),

Gene: Constance_25 Start: 19765, Stop: 20766, Start Num: 9
Candidate Starts for Constance_25:
(4, 19696), (Start: 9 @19765 has 7 MA's), (17, 19900), (25, 19981), (29, 20038), (32, 20080), (36, 20116), (37, 20125), (39, 20140), (41, 20149), (45, 20182), (51, 20371), (56, 20482), (69, 20665),

Gene: Ding_27 Start: 19468, Stop: 20382, Start Num: 16
Candidate Starts for Ding_27:
(1, 19195), (2, 19240), (16, 19468), (24, 19582), (27, 19609), (46, 19798), (47, 19879), (51, 19981), (55, 20059), (60, 20146), (66, 20257), (71, 20305),

Gene: EvenBluerMoon_25 Start: 22281, Stop: 23297, Start Num: 9
Candidate Starts for EvenBluerMoon_25:
(Start: 9 @22281 has 7 MA's), (29, 22551), (30, 22569), (35, 22629), (51, 22905), (61, 23091),

Gene: Hereford_36 Start: 22115, Stop: 23131, Start Num: 9
Candidate Starts for Hereford_36:
(Start: 9 @22115 has 7 MA's), (29, 22385), (30, 22403), (35, 22463), (51, 22739), (61, 22925),

Gene: JanetJ_25 Start: 22385, Stop: 23407, Start Num: 9
Candidate Starts for JanetJ_25:
(Start: 9 @22385 has 7 MA's), (29, 22655), (30, 22673), (35, 22733), (42, 22784), (51, 23009),

Gene: Mireles_21 Start: 13946, Stop: 14941, Start Num: 11
Candidate Starts for Mireles_21:
(11, 13946), (26, 14171), (35, 14303), (40, 14336), (51, 14546),

Gene: NidoQ_25 Start: 19779, Stop: 20783, Start Num: 9
Candidate Starts for NidoQ_25:
(4, 19710), (Start: 9 @19779 has 7 MA's), (17, 19914), (32, 20094), (36, 20130), (37, 20139), (39, 20154), (41, 20163), (51, 20388), (56, 20499), (69, 20682),

Gene: NoSwimming_26 Start: 23524, Stop: 24546, Start Num: 10
Candidate Starts for NoSwimming_26:
(6, 23485), (Start: 10 @23524 has 2 MA's), (14, 23602), (29, 23797), (30, 23815), (35, 23875), (42, 23926), (51, 24151), (55, 24229),

Gene: PeggyLeg03_25 Start: 19765, Stop: 20766, Start Num: 9
Candidate Starts for PeggyLeg03_25:
(4, 19696), (Start: 9 @19765 has 7 MA's), (17, 19900), (25, 19981), (29, 20038), (32, 20080), (36, 20116), (37, 20125), (39, 20140), (41, 20149), (45, 20182), (51, 20371), (56, 20482), (69, 20665),

Gene: PrairieDogTown_25 Start: 22283, Stop: 23299, Start Num: 9
Candidate Starts for PrairieDogTown_25:
(Start: 9 @22283 has 7 MA's), (29, 22553), (30, 22571), (35, 22631), (51, 22907), (61, 23093),

Gene: Scotia_26 Start: 23527, Stop: 24549, Start Num: 10
Candidate Starts for Scotia_26:
(6, 23488), (Start: 10 @23527 has 2 MA's), (14, 23605), (29, 23800), (30, 23818), (35, 23878), (51, 24154), (54, 24223), (66, 24430),

Gene: Shambre1_26 Start: 20624, Stop: 21655, Start Num: 9
Candidate Starts for Shambre1_26:
(3, 20543), (Start: 9 @20624 has 7 MA's), (12, 20642), (14, 20726), (15, 20729), (32, 20963), (34, 20990), (35, 20999), (38, 21023), (51, 21269), (53, 21293), (63, 21467), (68, 21554), (71, 21590), (73, 21638), (74, 21647),

Gene: Wollypog_24 Start: 21256, Stop: 22266, Start Num: 8
Candidate Starts for Wollypog_24:
(Start: 8 @21256 has 1 MA's), (18, 21415), (23, 21460), (26, 21484), (29, 21538), (35, 21616), (38, 21640), (40, 21649), (44, 21673), (45, 21679), (50, 21868), (52, 21889), (59, 22030), (62, 22069), (64, 22120), (65, 22141), (68, 22168), (72, 22204),