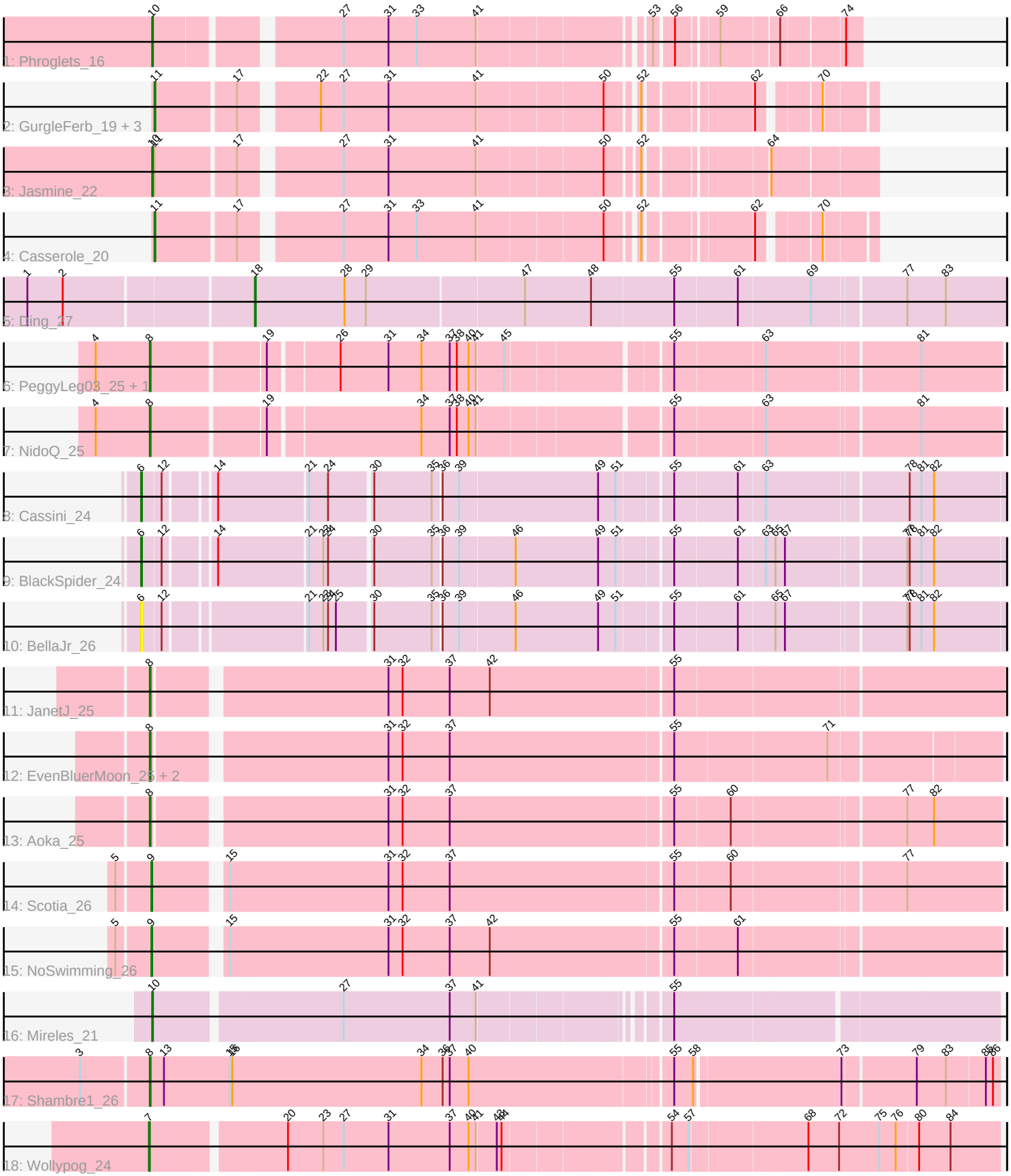
Pham 347974


1: Phroglets_16
2: GurgleFerb_19 + 3
3: Jasmine_22
4: Casserole_20
5: Ding_27
6: PeggyLeg03_25 + 1
7: NidoQ_25
8: Cassini_24
9: BlackSpider_24
10: BellaJr_26
11: JanetJ_25
12: EvenBluerMoon_25 + 2
13: Aoka_25
14: Scotia_26
15: NoSwimming_26
16: Mireles_21
17: Shambre1_26
18: 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 347974 Report

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

Pham number 347974 has 24 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Phroglets_16
• Track 2 : GurgleFerb_19, Adat_19, Nellie_19, Brad_19
• Track 3 : Jasmine_22
• Track 4 : Casserole_20
• Track 5 : Ding_27
• Track 6 : PeggyLeg03_25, Constance_25
• Track 7 : NidoQ_25
• Track 8 : Cassini_24
• Track 9 : BlackSpider_24
• Track 10 : BellaJr_26
• Track 11 : JanetJ_25
• Track 12 : EvenBluerMoon_25, PrairieDogTown_25, Hereford_26
• Track 13 : Aoka_25
• Track 14 : Scotia_26
• Track 15 : NoSwimming_26
• Track 16 : Mireles_21
• Track 17 : Shambre1_26
• Track 18 : 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 8, it was called in 9 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aoka_25, Constance_25, EvenBluerMoon_25, Hereford_26, 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:
• Adat_19, BellaJr_26, BlackSpider_24, Brad_19, Casserole_20, Cassini_24, Ding_27, GurgleFerb_19, Jasmine_22, Mireles_21, Nellie_19, NoSwimming_26,

Phroglets_16, Scotia_26, Wollypog_24,

Summary by start number:

Start 6:
• Found in 3 of 24 (12.5%) of genes in pham
• Manual Annotations of this start: 2 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BellaJr_26 (FN), BlackSpider_24 (FN), Cassini_24 (FN),

Start 7:
• Found in 1 of 24 (4.2%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Wollypog_24 (singleton),

Start 8:
• Found in 9 of 24 (37.5%) of genes in pham
• Manual Annotations of this start: 9 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aoka_25 (FO), Constance_25 (FA), EvenBluerMoon_25 (FO), Hereford_26 (FO), JanetJ_25 (FO), NidoQ_25 (FA), PeggyLeg03_25 (FA), PrairieDogTown_25 (FO), Shambre1_26 (singleton),

Start 9:
• Found in 2 of 24 (8.3%) of genes in pham
• Manual Annotations of this start: 2 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: NoSwimming_26 (FO), Scotia_26 (FO),

Start 10:
• Found in 3 of 24 (12.5%) of genes in pham
• Manual Annotations of this start: 3 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jasmine_22 (AV), Mireles_21 (FR), Phroglets_16 (AV),

Start 11:
• Found in 6 of 24 (25.0%) of genes in pham
• Manual Annotations of this start: 5 of 23
• Called 83.3% of time when present
• Phage (with cluster) where this start called: Adat_19 (AV), Brad_19 (AV), Casserole_20 (AV), GurgleFerb_19 (AV), Nellie_19 (AV),

Start 18:
• Found in 1 of 24 (4.2%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ding_27 (AY),

Summary by clusters:

There are 7 clusters represented in this pham: singleton, FR, FA, AV, AY, FN, FO,

Info for manual annotations of cluster AV:
•Start number 10 was manually annotated 2 times for cluster AV.
•Start number 11 was manually annotated 5 times for cluster AV.

Info for manual annotations of cluster AY:
•Start number 18 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster FA:
•Start number 8 was manually annotated 3 times for cluster FA.

Info for manual annotations of cluster FN:
•Start number 6 was manually annotated 2 times for cluster FN.

Info for manual annotations of cluster FO:
•Start number 8 was manually annotated 5 times for cluster FO.
•Start number 9 was manually annotated 2 times for cluster FO.

Info for manual annotations of cluster FR:
•Start number 10 was manually annotated 1 time for cluster FR.

Gene Information:

Gene: Adat_19 Start: 14192, Stop: 14977, Start Num: 11
Candidate Starts for Adat_19:
(Start: 11 @14192 has 5 MA's), (17, 14288), (22, 14369), (27, 14396), (31, 14450), (41, 14561), (50, 14711), (52, 14744), (62, 14855), (70, 14918),

Gene: Aoka_25 Start: 22246, Stop: 23265, Start Num: 8
Candidate Starts for Aoka_25:
(Start: 8 @22246 has 9 MA's), (31, 22516), (32, 22534), (37, 22594), (55, 22870), (60, 22939), (77, 23146), (82, 23179),

Gene: BellaJr_26 Start: 20275, Stop: 21285, Start Num: 6
Candidate Starts for BellaJr_26:
(Start: 6 @20275 has 2 MA's), (12, 20296), (21, 20461), (23, 20479), (24, 20485), (25, 20494), (30, 20533), (35, 20602), (36, 20611), (39, 20632), (46, 20698), (49, 20803), (51, 20824), (55, 20887), (61, 20965), (65, 21007), (67, 21019), (77, 21163), (78, 21166), (81, 21181), (82, 21196),

Gene: BlackSpider_24 Start: 19133, Stop: 20143, Start Num: 6
Candidate Starts for BlackSpider_24:
(Start: 6 @19133 has 2 MA's), (12, 19154), (14, 19208), (21, 19319), (23, 19337), (24, 19343), (30, 19391), (35, 19460), (36, 19469), (39, 19490), (46, 19556), (49, 19661), (51, 19682), (55, 19745), (61, 19823), (63, 19856), (65, 19865), (67, 19877), (77, 20021), (78, 20024), (81, 20039), (82, 20054),

Gene: Brad_19 Start: 14190, Stop: 14975, Start Num: 11
Candidate Starts for Brad_19:
(Start: 11 @14190 has 5 MA's), (17, 14286), (22, 14367), (27, 14394), (31, 14448), (41, 14559), (50, 14709), (52, 14742), (62, 14853), (70, 14916),

Gene: Casserole_20 Start: 15480, Stop: 16265, Start Num: 11
Candidate Starts for Casserole_20:
(Start: 11 @15480 has 5 MA's), (17, 15576), (27, 15684), (31, 15738), (33, 15774), (41, 15849), (50, 15999), (52, 16032), (62, 16143), (70, 16206),

Gene: Cassini_24 Start: 19370, Stop: 20380, Start Num: 6
Candidate Starts for Cassini_24:
(Start: 6 @19370 has 2 MA's), (12, 19391), (14, 19445), (21, 19556), (24, 19580), (30, 19628), (35, 19697), (36, 19706), (39, 19727), (49, 19898), (51, 19919), (55, 19982), (61, 20060), (63, 20093), (78, 20261), (81, 20276), (82, 20291),

Gene: Constance_25 Start: 19765, Stop: 20766, Start Num: 8
Candidate Starts for Constance_25:
(4, 19696), (Start: 8 @19765 has 9 MA's), (19, 19900), (26, 19981), (31, 20038), (34, 20080), (37, 20116), (38, 20125), (40, 20140), (41, 20149), (45, 20182), (55, 20371), (63, 20482), (81, 20665),

Gene: Ding_27 Start: 19468, Stop: 20382, Start Num: 18
Candidate Starts for Ding_27:
(1, 19195), (2, 19240), (Start: 18 @19468 has 1 MA's), (28, 19582), (29, 19609), (47, 19798), (48, 19879), (55, 19981), (61, 20059), (69, 20146), (77, 20257), (83, 20305),

Gene: EvenBluerMoon_25 Start: 22281, Stop: 23297, Start Num: 8
Candidate Starts for EvenBluerMoon_25:
(Start: 8 @22281 has 9 MA's), (31, 22551), (32, 22569), (37, 22629), (55, 22905), (71, 23091),

Gene: GurgleFerb_19 Start: 14191, Stop: 14976, Start Num: 11
Candidate Starts for GurgleFerb_19:
(Start: 11 @14191 has 5 MA's), (17, 14287), (22, 14368), (27, 14395), (31, 14449), (41, 14560), (50, 14710), (52, 14743), (62, 14854), (70, 14917),

Gene: Hereford_26 Start: 22115, Stop: 23131, Start Num: 8
Candidate Starts for Hereford_26:
(Start: 8 @22115 has 9 MA's), (31, 22385), (32, 22403), (37, 22463), (55, 22739), (71, 22925),

Gene: JanetJ_25 Start: 22385, Stop: 23407, Start Num: 8
Candidate Starts for JanetJ_25:
(Start: 8 @22385 has 9 MA's), (31, 22655), (32, 22673), (37, 22733), (42, 22784), (55, 23009),

Gene: Jasmine_22 Start: 16051, Stop: 16863, Start Num: 10
Candidate Starts for Jasmine_22:
(Start: 10 @16051 has 3 MA's), (Start: 11 @16054 has 5 MA's), (17, 16150), (27, 16258), (31, 16312), (41, 16423), (50, 16573), (52, 16609), (64, 16738),

Gene: Mireles_21 Start: 13946, Stop: 14941, Start Num: 10
Candidate Starts for Mireles_21:
(Start: 10 @13946 has 3 MA's), (27, 14171), (37, 14303), (41, 14336), (55, 14546),

Gene: Nellie_19 Start: 14192, Stop: 14977, Start Num: 11
Candidate Starts for Nellie_19:
(Start: 11 @14192 has 5 MA's), (17, 14288), (22, 14369), (27, 14396), (31, 14450), (41, 14561), (50, 14711), (52, 14744), (62, 14855), (70, 14918),

Gene: NidoQ_25 Start: 19779, Stop: 20783, Start Num: 8

Candidate Starts for NidoQ_25:
(4, 19710), (Start: 8 @19779 has 9 MA's), (19, 19914), (34, 20094), (37, 20130), (38, 20139), (40, 20154), (41, 20163), (55, 20388), (63, 20499), (81, 20682),

Gene: NoSwimming_26 Start: 23524, Stop: 24546, Start Num: 9
Candidate Starts for NoSwimming_26:
(5, 23485), (Start: 9 @23524 has 2 MA's), (15, 23602), (31, 23797), (32, 23815), (37, 23875), (42, 23926), (55, 24151), (61, 24229),

Gene: PeggyLeg03_25 Start: 19765, Stop: 20766, Start Num: 8
Candidate Starts for PeggyLeg03_25:
(4, 19696), (Start: 8 @19765 has 9 MA's), (19, 19900), (26, 19981), (31, 20038), (34, 20080), (37, 20116), (38, 20125), (40, 20140), (41, 20149), (45, 20182), (55, 20371), (63, 20482), (81, 20665),

Gene: Phroglets_16 Start: 14323, Stop: 15105, Start Num: 10
Candidate Starts for Phroglets_16:
(Start: 10 @14323 has 3 MA's), (27, 14524), (31, 14578), (33, 14614), (41, 14689), (53, 14881), (56, 14902), (59, 14947), (66, 15013), (74, 15085),

Gene: PrairieDogTown_25 Start: 22283, Stop: 23299, Start Num: 8
Candidate Starts for PrairieDogTown_25:
(Start: 8 @22283 has 9 MA's), (31, 22553), (32, 22571), (37, 22631), (55, 22907), (71, 23093),

Gene: Scotia_26 Start: 23527, Stop: 24549, Start Num: 9
Candidate Starts for Scotia_26:
(5, 23488), (Start: 9 @23527 has 2 MA's), (15, 23605), (31, 23800), (32, 23818), (37, 23878), (55, 24154), (60, 24223), (77, 24430),

Gene: Shambre1_26 Start: 20624, Stop: 21655, Start Num: 8
Candidate Starts for Shambre1_26:
(3, 20543), (Start: 8 @20624 has 9 MA's), (13, 20642), (15, 20726), (16, 20729), (34, 20963), (36, 20990), (37, 20999), (40, 21023), (55, 21269), (58, 21293), (73, 21467), (79, 21554), (83, 21590), (85, 21638), (86, 21647),

Gene: Wollypog_24 Start: 21256, Stop: 22266, Start Num: 7
Candidate Starts for Wollypog_24:
(Start: 7 @21256 has 1 MA's), (20, 21415), (23, 21460), (27, 21484), (31, 21538), (37, 21616), (40, 21640), (41, 21649), (43, 21673), (44, 21679), (54, 21868), (57, 21889), (68, 22030), (72, 22069), (75, 22120), (76, 22141), (80, 22168), (84, 22204),