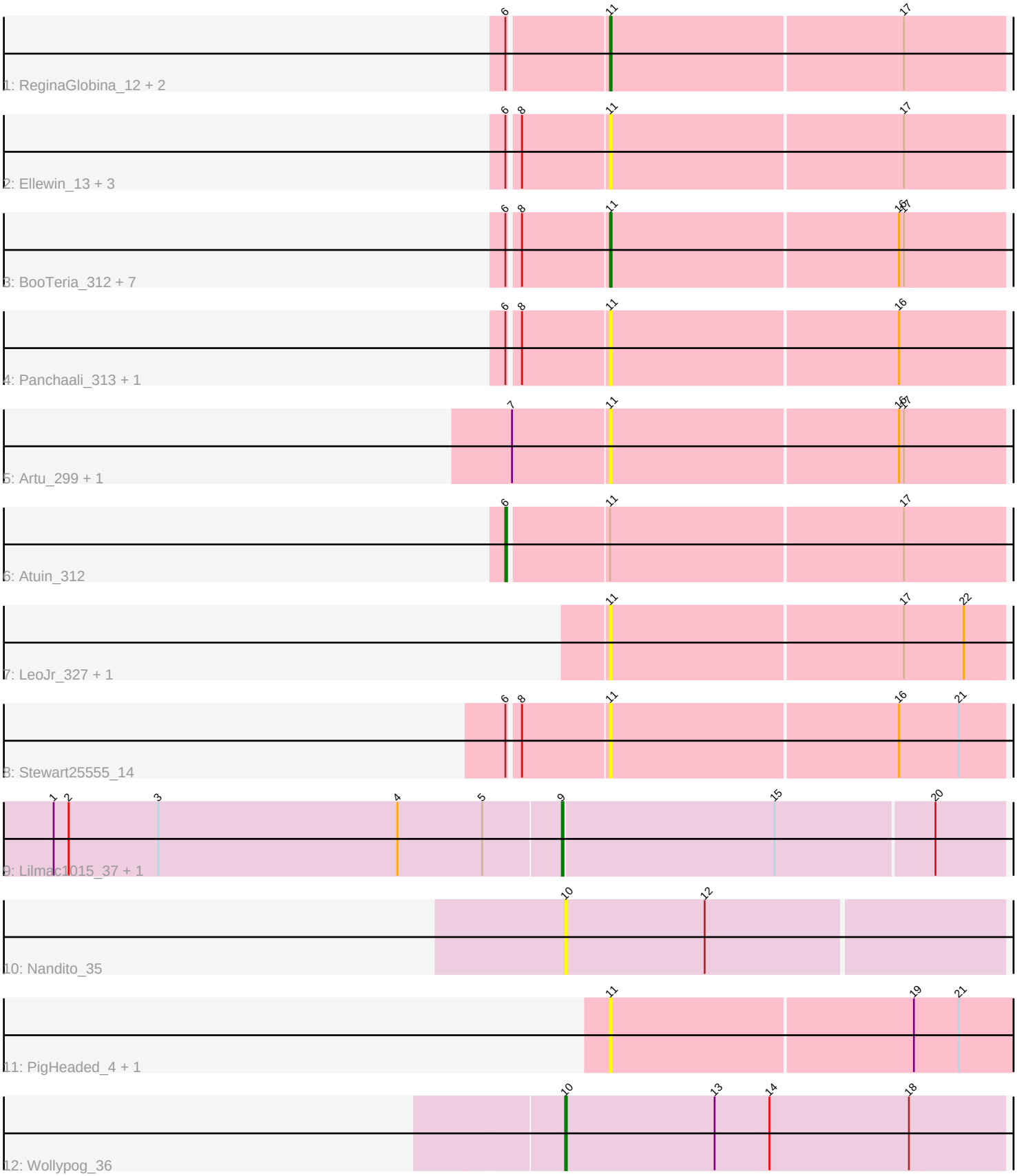
Pham 278475


6
11
17
1: ReginaGlobina_12 + 2
6
8
11
17
2: Ellewin_13 + 3
6
8
11
16
17
3: BooTeria_312 + 7
6
8
11
16
4: Panchaali_313 + 1
7
11
16
17
5: Artu_299 + 1
6
11
17
6: Atuin_312
11
17
22
7: LeoJr_327 + 1
6
8
11
16
21
8: Stewart25555_14
1
2
3
4
5
9
15
20
9: Lilmac1015_37 + 1
10
12
10: Nandito_35
11
19
21
11: PigHeaded_4 + 1
10
13
14
18
12: Wollypog_36

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 278475 Report

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

Pham number 278475 has 29 members, 21 are drafts.

Phages represented in each track:
• Track 1 : ReginaGlobina_12, ReginaGlobina_323, Atuin_12
• Track 2 : Ellewin_13, Ellewin_312, KSunshine22_13, KSunshine22_305
• Track 3 : BooTeria_312, DunneganBoMo_305, BooTeria_13, Emmetator_11, WaddleDee_301, Emmetator_305, WaddleDee_10, DunneganBoMo_10
• Track 4 : Panchaali_313, Panchaali_14
• Track 5 : Artu_299, Artu_12
• Track 6 : Atuin_312
• Track 7 : LeoJr_327, LeoJr_14
• Track 8 : Stewart25555_14
• Track 9 : Lilmac1015_37, CalWood4100_37
• Track 10 : Nandito_35
• Track 11 : PigHeaded_4, PigHeaded_64
• Track 12 : Wollypog_36

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

The start number called the most often in the published annotations is 11, it was called in 5 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Artu_12, Artu_299, Atuin_12, BooTeria_13, BooTeria_312, DunneganBoMo_10, DunneganBoMo_305, Ellewin_13, Ellewin_312, Emmetator_11, Emmetator_305, KSunshine22_13, KSunshine22_305, LeoJr_14, LeoJr_327, Panchaali_14, Panchaali_313, PigHeaded_4, PigHeaded_64, ReginaGlobina_12, ReginaGlobina_323, Stewart25555_14, WaddleDee_10, WaddleDee_301,

Genes that have the "Most Annotated" start but do not call it:
• Atuin_312,

Genes that do not have the "Most Annotated" start:
• CalWood4100_37, Lilmac1015_37, Nandito_35, Wollypog_36,

Summary by start number:

Start 6:
• Found in 19 of 29 (65.5%) of genes in pham
• Manual Annotations of this start: 1 of 8
• Called 5.3% of time when present
• Phage (with cluster) where this start called: Atuin_312 (FC),

Start 9:
• Found in 2 of 29 (6.9%) of genes in pham
• Manual Annotations of this start: 1 of 8
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CalWood4100_37 (FH), Lilmac1015_37 (FH),

Start 10:
• Found in 2 of 29 (6.9%) of genes in pham
• Manual Annotations of this start: 1 of 8
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Nandito_35 (FH), Wollypog_36 (singleton),

Start 11:
• Found in 25 of 29 (86.2%) of genes in pham
• Manual Annotations of this start: 5 of 8
• Called 96.0% of time when present
• Phage (with cluster) where this start called: Artu_12 (FC), Artu_299 (FC), Atuin_12 (FC), BooTeria_13 (FC), BooTeria_312 (FC), DunneganBoMo_10 (FC), DunneganBoMo_305 (FC), Ellewin_13 (FC), Ellewin_312 (FC), Emmetator_11 (FC), Emmetator_305 (FC), KSunshine22_13 (FC), KSunshine22_305 (FC), LeoJr_14 (FC), LeoJr_327 (FC), Panchaali_14 (FC), Panchaali_313 (FC), PigHeaded_4 (UNK), PigHeaded_64 (UNK), ReginaGlobina_12 (FC), ReginaGlobina_323 (FC), Stewart25555_14 (FC), WaddleDee_10 (FC), WaddleDee_301 (FC),

Summary by clusters:

There are 4 clusters represented in this pham: FH, UNK, singleton, FC,

Info for manual annotations of cluster FC:
•Start number 6 was manually annotated 1 time for cluster FC.
•Start number 11 was manually annotated 5 times for cluster FC.

Info for manual annotations of cluster FH:
•Start number 9 was manually annotated 1 time for cluster FH.

Gene Information:

Gene: Artu_299 Start: 184439, Stop: 184672, Start Num: 11
Candidate Starts for Artu_299:
(7, 184382), (Start: 11 @184439 has 5 MA's), (16, 184610), (17, 184613),

Gene: Artu_12 Start: 5285, Stop: 5518, Start Num: 11

Candidate Starts for Artu_12:
(7, 5228), (Start: 11 @5285 has 5 MA's), (16, 5456), (17, 5459),

Gene: Atuin_312 Start: 183437, Stop: 183727, Start Num: 6
Candidate Starts for Atuin_312:
(Start: 6 @183437 has 1 MA's), (Start: 11 @183494 has 5 MA's), (17, 183668),

Gene: Atuin_12 Start: 6606, Stop: 6839, Start Num: 11
Candidate Starts for Atuin_12:
(Start: 6 @6549 has 1 MA's), (Start: 11 @6606 has 5 MA's), (17, 6780),

Gene: BooTeria_312 Start: 184432, Stop: 184665, Start Num: 11
Candidate Starts for BooTeria_312:
(Start: 6 @184375 has 1 MA's), (8, 184381), (Start: 11 @184432 has 5 MA's), (16, 184603), (17, 184606),

Gene: BooTeria_13 Start: 5523, Stop: 5756, Start Num: 11
Candidate Starts for BooTeria_13:
(Start: 6 @5466 has 1 MA's), (8, 5472), (Start: 11 @5523 has 5 MA's), (16, 5694), (17, 5697),

Gene: CalWood4100_37 Start: 28484, Stop: 28744, Start Num: 9
Candidate Starts for CalWood4100_37:
(1, 28181), (2, 28190), (3, 28244), (4, 28388), (5, 28439), (Start: 9 @28484 has 1 MA's), (15, 28610), (20, 28703),

Gene: DunneganBoMo_305 Start: 184946, Stop: 185179, Start Num: 11
Candidate Starts for DunneganBoMo_305:
(Start: 6 @184889 has 1 MA's), (8, 184895), (Start: 11 @184946 has 5 MA's), (16, 185117), (17, 185120),

Gene: DunneganBoMo_10 Start: 5534, Stop: 5767, Start Num: 11
Candidate Starts for DunneganBoMo_10:
(Start: 6 @5477 has 1 MA's), (8, 5483), (Start: 11 @5534 has 5 MA's), (16, 5705), (17, 5708),

Gene: Ellewin_13 Start: 5594, Stop: 5827, Start Num: 11
Candidate Starts for Ellewin_13:
(Start: 6 @5537 has 1 MA's), (8, 5543), (Start: 11 @5594 has 5 MA's), (17, 5768),

Gene: Ellewin_312 Start: 184708, Stop: 184941, Start Num: 11
Candidate Starts for Ellewin_312:
(Start: 6 @184651 has 1 MA's), (8, 184657), (Start: 11 @184708 has 5 MA's), (17, 184882),

Gene: Emmetator_11 Start: 5694, Stop: 5927, Start Num: 11
Candidate Starts for Emmetator_11:
(Start: 6 @5637 has 1 MA's), (8, 5643), (Start: 11 @5694 has 5 MA's), (16, 5865), (17, 5868),

Gene: Emmetator_305 Start: 183994, Stop: 184227, Start Num: 11
Candidate Starts for Emmetator_305:
(Start: 6 @183937 has 1 MA's), (8, 183943), (Start: 11 @183994 has 5 MA's), (16, 184165), (17, 184168),

Gene: KSunshine22_13 Start: 6124, Stop: 6357, Start Num: 11
Candidate Starts for KSunshine22_13:

(Start: 6 @6067 has 1 MA's), (8, 6073), (Start: 11 @6124 has 5 MA's), (17, 6298),

Gene: KSunshine22_305 Start: 183025, Stop: 183258, Start Num: 11
Candidate Starts for KSunshine22_305:
(Start: 6 @182968 has 1 MA's), (8, 182974), (Start: 11 @183025 has 5 MA's), (17, 183199),

Gene: LeoJr_327 Start: 183655, Stop: 183888, Start Num: 11
Candidate Starts for LeoJr_327:
(Start: 11 @183655 has 5 MA's), (17, 183829), (22, 183865),

Gene: LeoJr_14 Start: 6352, Stop: 6585, Start Num: 11
Candidate Starts for LeoJr_14:
(Start: 11 @6352 has 5 MA's), (17, 6526), (22, 6562),

Gene: Lilmac1015_37 Start: 28484, Stop: 28744, Start Num: 9
Candidate Starts for Lilmac1015_37:
(1, 28181), (2, 28190), (3, 28244), (4, 28388), (5, 28439), (Start: 9 @28484 has 1 MA's), (15, 28610), (20, 28703),

Gene: Nandito_35 Start: 28193, Stop: 28453, Start Num: 10
Candidate Starts for Nandito_35:
(Start: 10 @28193 has 1 MA's), (12, 28277),

Gene: Panchaali_313 Start: 184805, Stop: 185038, Start Num: 11
Candidate Starts for Panchaali_313:
(Start: 6 @184748 has 1 MA's), (8, 184754), (Start: 11 @184805 has 5 MA's), (16, 184976),

Gene: Panchaali_14 Start: 5747, Stop: 5980, Start Num: 11
Candidate Starts for Panchaali_14:
(Start: 6 @5690 has 1 MA's), (8, 5696), (Start: 11 @5747 has 5 MA's), (16, 5918),

Gene: PigHeaded_4 Start: 1804, Stop: 1559, Start Num: 11
Candidate Starts for PigHeaded_4:
(Start: 11 @1804 has 5 MA's), (19, 1624), (21, 1597),

Gene: PigHeaded_64 Start: 46877, Stop: 46632, Start Num: 11
Candidate Starts for PigHeaded_64:
(Start: 11 @46877 has 5 MA's), (19, 46697), (21, 46670),

Gene: ReginaGlobina_12 Start: 6205, Stop: 6438, Start Num: 11
Candidate Starts for ReginaGlobina_12:
(Start: 6 @6148 has 1 MA's), (Start: 11 @6205 has 5 MA's), (17, 6379),

Gene: ReginaGlobina_323 Start: 183652, Stop: 183885, Start Num: 11
Candidate Starts for ReginaGlobina_323:
(Start: 6 @183595 has 1 MA's), (Start: 11 @183652 has 5 MA's), (17, 183826),

Gene: Stewart25555_14 Start: 6684, Stop: 6917, Start Num: 11
Candidate Starts for Stewart25555_14:
(Start: 6 @6627 has 1 MA's), (8, 6633), (Start: 11 @6684 has 5 MA's), (16, 6855), (21, 6891),

Gene: WaddleDee_301 Start: 183729, Stop: 183962, Start Num: 11
Candidate Starts for WaddleDee_301:

(Start: 6 @183672 has 1 MA's), (8, 183678), (Start: 11 @183729 has 5 MA's), (16, 183900), (17, 183903),

Gene: WaddleDee_10 Start: 5534, Stop: 5767, Start Num: 11
Candidate Starts for WaddleDee_10:
(Start: 6 @5477 has 1 MA's), (8, 5483), (Start: 11 @5534 has 5 MA's), (16, 5705), (17, 5708),

Gene: Wollypog_36 Start: 27851, Stop: 28114, Start Num: 10
Candidate Starts for Wollypog_36:
(Start: 10 @27851 has 1 MA's), (13, 27941), (14, 27974), (18, 28058),