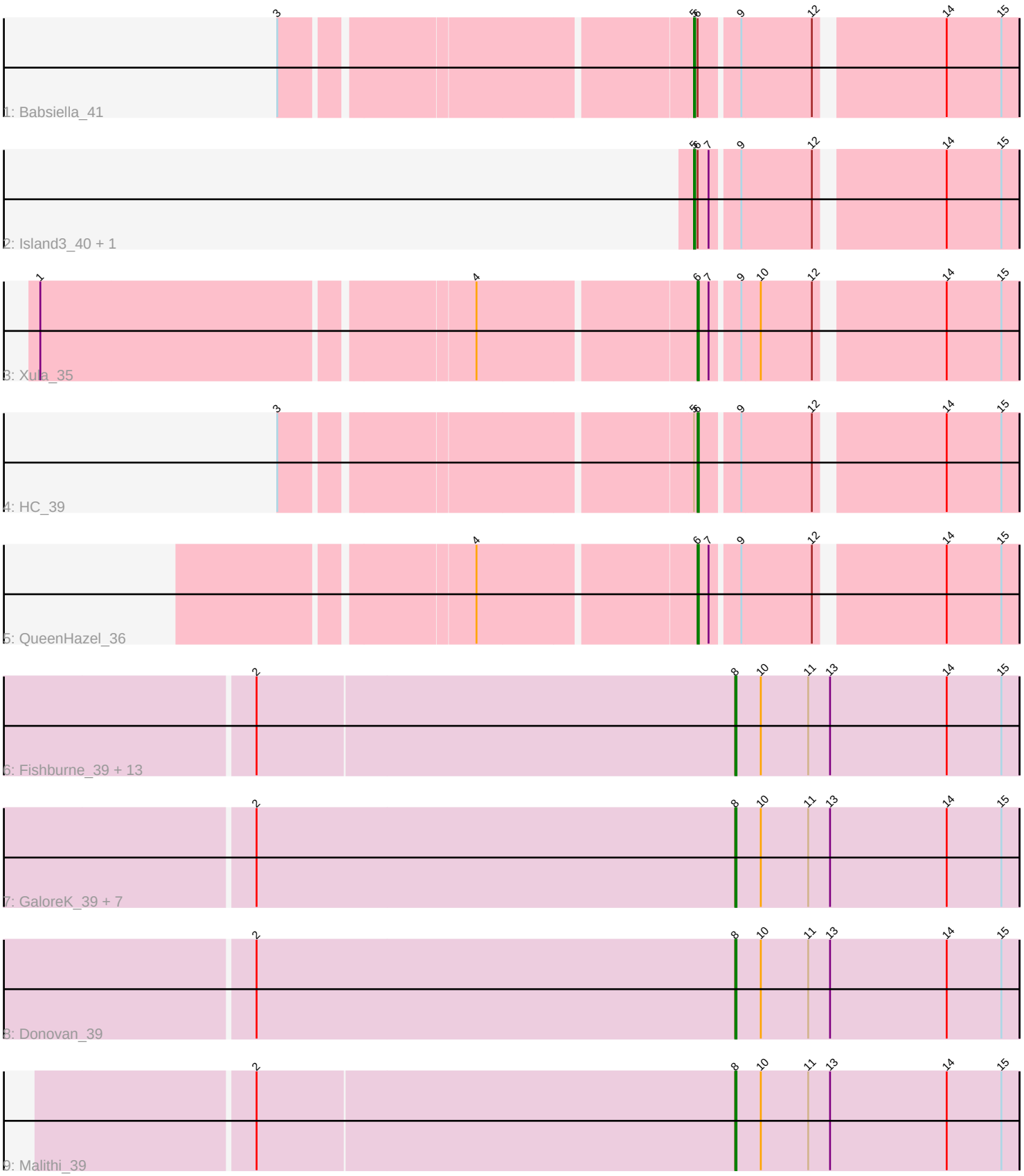
Pham 296809


3
5
6
9
12
14
15
1: Babsiella_41
5
6
7
9
12
14
15
2: Island3_40 + 1
1
4
6
7
9
10
12
14
15
3: Xula_35
3
5
6
9
12
14
15
4: HC_39
4
6
7
9
12
14
15
5: QueenHazel_36
2
8
10
11
13
14
15
6: Fishburne_39 + 13
2
8
10
11
13
14
15
7: GaloreK_39 + 7
2
8
10
11
13
14
15
8: Donovan_39
2
8
10
11
13
14
15
9: Malithi_39

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 296809 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296809 has 30 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Babsiella_41
• Track 2 : Island3_40, Brujita_40
• Track 3 : Xula_35
• Track 4 : HC_39
• Track 5 : QueenHazel_36
• Track 6 : Fishburne_39, Jebeks_40, Necropolis_39, Venti_39, Dynamo_39, Etoile_39, BronnyJr_39, Sonah_39, Chubbello_39, Zilizebeth_39, Bartholomew_38, FirstPlacePfu_39, Vidya_39, Kari_39
• Track 7 : GaloreK_39, Langerak_39, Mangethe_39, Techage_39, Majeke_39, HUHilltop_39, Phegasus_39, Arib1_39
• Track 8 : Donovan_39
• Track 9 : Malithi_39

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 20 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Arib1_39, Bartholomew_38, BronnyJr_39, Chubbello_39, Donovan_39, Dynamo_39, Etoile_39, FirstPlacePfu_39, Fishburne_39, GaloreK_39, HUHilltop_39, Jebeks_40, Kari_39, Langerak_39, Majeke_39, Malithi_39, Mangethe_39, Necropolis_39, Phegasus_39, Sonah_39, Techage_39, Venti_39, Vidya_39, Zilizebeth_39,

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

Genes that do not have the "Most Annotated" start:
• Babsiella_41, Brujita_40, HC_39, Island3_40, QueenHazel_36, Xula_35,

Summary by start number:

Start 5:

• Found in 4 of 30 (13.3%) of genes in pham
• Manual Annotations of this start: 3 of 26
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Babsiella_41 (I1), Brujita_40 (I1), Island3_40 (I1),

Start 6:
• Found in 6 of 30 (20.0%) of genes in pham
• Manual Annotations of this start: 3 of 26
• Called 50.0% of time when present
• Phage (with cluster) where this start called: HC_39 (I1), QueenHazel_36 (I1), Xula_35 (I1),

Start 8:
• Found in 24 of 30 (80.0%) of genes in pham
• Manual Annotations of this start: 20 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Arib1_39 (P1), Bartholomew_38 (P1), BronnyJr_39 (P1), Chubbello_39 (P1), Donovan_39 (P1), Dynamo_39 (P1), Etoile_39 (P1), FirstPlacePfu_39 (P1), Fishburne_39 (P1), GaloreK_39 (P1), HUHilltop_39 (P1), Jebeks_40 (P1), Kari_39 (P1), Langerak_39 (P1), Majeke_39 (P1), Malithi_39 (P1), Mangethe_39 (P1), Necropolis_39 (P1), Phegasus_39 (P1), Sonah_39 (P1), Techage_39 (P1), Venti_39 (P1), Vidya_39 (P1), Zilizebeth_39 (P1),

Summary by clusters:

There are 2 clusters represented in this pham: I1, P1,

Info for manual annotations of cluster I1:
•Start number 5 was manually annotated 3 times for cluster I1.
•Start number 6 was manually annotated 3 times for cluster I1.

Info for manual annotations of cluster P1:
•Start number 8 was manually annotated 20 times for cluster P1.

Gene Information:

Gene: Arib1_39 Start: 30316, Stop: 30549, Start Num: 8
Candidate Starts for Arib1_39:
(2, 29923), (Start: 8 @30316 has 20 MA's), (10, 30337), (11, 30376), (13, 30394), (14, 30490), (15, 30535),

Gene: Babsiella_41 Start: 31234, Stop: 31479, Start Num: 5
Candidate Starts for Babsiella_41:
(3, 30922), (Start: 5 @31234 has 3 MA's), (Start: 6 @31237 has 3 MA's), (9, 31267), (12, 31324), (14, 31420), (15, 31465),

Gene: Bartholomew_38 Start: 30310, Stop: 30543, Start Num: 8
Candidate Starts for Bartholomew_38:
(2, 29920), (Start: 8 @30310 has 20 MA's), (10, 30331), (11, 30370), (13, 30388), (14, 30484), (15, 30529),

Gene: BronnyJr_39 Start: 30807, Stop: 31040, Start Num: 8
Candidate Starts for BronnyJr_39:
(2, 30417), (Start: 8 @30807 has 20 MA's), (10, 30828), (11, 30867), (13, 30885), (14, 30981), (15, 31026),

Gene: Brujita_40 Start: 31964, Stop: 32209, Start Num: 5
Candidate Starts for Brujita_40:
(Start: 5 @31964 has 3 MA's), (Start: 6 @31967 has 3 MA's), (7, 31976), (9, 31997), (12, 32054), (14, 32150), (15, 32195),

Gene: Chubbello_39 Start: 30306, Stop: 30539, Start Num: 8
Candidate Starts for Chubbello_39:
(2, 29916), (Start: 8 @30306 has 20 MA's), (10, 30327), (11, 30366), (13, 30384), (14, 30480), (15, 30525),

Gene: Donovan_39 Start: 30333, Stop: 30566, Start Num: 8
Candidate Starts for Donovan_39:
(2, 29940), (Start: 8 @30333 has 20 MA's), (10, 30354), (11, 30393), (13, 30411), (14, 30507), (15, 30552),

Gene: Dynamo_39 Start: 30718, Stop: 30951, Start Num: 8
Candidate Starts for Dynamo_39:
(2, 30328), (Start: 8 @30718 has 20 MA's), (10, 30739), (11, 30778), (13, 30796), (14, 30892), (15, 30937),

Gene: Etoile_39 Start: 30310, Stop: 30543, Start Num: 8
Candidate Starts for Etoile_39:
(2, 29920), (Start: 8 @30310 has 20 MA's), (10, 30331), (11, 30370), (13, 30388), (14, 30484), (15, 30529),

Gene: FirstPlacePfu_39 Start: 30342, Stop: 30575, Start Num: 8
Candidate Starts for FirstPlacePfu_39:
(2, 29952), (Start: 8 @30342 has 20 MA's), (10, 30363), (11, 30402), (13, 30420), (14, 30516), (15, 30561),

Gene: Fishburne_39 Start: 30310, Stop: 30543, Start Num: 8
Candidate Starts for Fishburne_39:
(2, 29920), (Start: 8 @30310 has 20 MA's), (10, 30331), (11, 30370), (13, 30388), (14, 30484), (15, 30529),

Gene: GaloreK_39 Start: 30306, Stop: 30539, Start Num: 8
Candidate Starts for GaloreK_39:
(2, 29913), (Start: 8 @30306 has 20 MA's), (10, 30327), (11, 30366), (13, 30384), (14, 30480), (15, 30525),

Gene: HC_39 Start: 30018, Stop: 30260, Start Num: 6
Candidate Starts for HC_39:
(3, 29703), (Start: 5 @30015 has 3 MA's), (Start: 6 @30018 has 3 MA's), (9, 30048), (12, 30105), (14, 30201), (15, 30246),

Gene: HUHilltop_39 Start: 30343, Stop: 30576, Start Num: 8
Candidate Starts for HUHilltop_39:

(2, 29950), (Start: 8 @30343 has 20 MA's), (10, 30364), (11, 30403), (13, 30421), (14, 30517), (15, 30562),

Gene: Island3_40 Start: 31964, Stop: 32209, Start Num: 5
Candidate Starts for Island3_40:
(Start: 5 @31964 has 3 MA's), (Start: 6 @31967 has 3 MA's), (7, 31976), (9, 31997), (12, 32054), (14, 32150), (15, 32195),

Gene: Jebeks_40 Start: 30295, Stop: 30528, Start Num: 8
Candidate Starts for Jebeks_40:
(2, 29905), (Start: 8 @30295 has 20 MA's), (10, 30316), (11, 30355), (13, 30373), (14, 30469), (15, 30514),

Gene: Kari_39 Start: 30307, Stop: 30540, Start Num: 8
Candidate Starts for Kari_39:
(2, 29917), (Start: 8 @30307 has 20 MA's), (10, 30328), (11, 30367), (13, 30385), (14, 30481), (15, 30526),

Gene: Langerak_39 Start: 30326, Stop: 30559, Start Num: 8
Candidate Starts for Langerak_39:
(2, 29933), (Start: 8 @30326 has 20 MA's), (10, 30347), (11, 30386), (13, 30404), (14, 30500), (15, 30545),

Gene: Majeke_39 Start: 30351, Stop: 30584, Start Num: 8
Candidate Starts for Majeke_39:
(2, 29958), (Start: 8 @30351 has 20 MA's), (10, 30372), (11, 30411), (13, 30429), (14, 30525), (15, 30570),

Gene: Malithi_39 Start: 30226, Stop: 30459, Start Num: 8
Candidate Starts for Malithi_39:
(2, 29836), (Start: 8 @30226 has 20 MA's), (10, 30247), (11, 30286), (13, 30304), (14, 30400), (15, 30445),

Gene: Mangethe_39 Start: 30351, Stop: 30584, Start Num: 8
Candidate Starts for Mangethe_39:
(2, 29958), (Start: 8 @30351 has 20 MA's), (10, 30372), (11, 30411), (13, 30429), (14, 30525), (15, 30570),

Gene: Necropolis_39 Start: 30307, Stop: 30540, Start Num: 8
Candidate Starts for Necropolis_39:
(2, 29917), (Start: 8 @30307 has 20 MA's), (10, 30328), (11, 30367), (13, 30385), (14, 30481), (15, 30526),

Gene: Phegasus_39 Start: 30318, Stop: 30551, Start Num: 8
Candidate Starts for Phegasus_39:
(2, 29925), (Start: 8 @30318 has 20 MA's), (10, 30339), (11, 30378), (13, 30396), (14, 30492), (15, 30537),

Gene: QueenHazel_36 Start: 30012, Stop: 30254, Start Num: 6
Candidate Starts for QueenHazel_36:
(4, 29841), (Start: 6 @30012 has 3 MA's), (7, 30021), (9, 30042), (12, 30099), (14, 30195), (15, 30240),

Gene: Sonah_39 Start: 30296, Stop: 30529, Start Num: 8

Candidate Starts for Sonah_39:
(2, 29906), (Start: 8 @30296 has 20 MA's), (10, 30317), (11, 30356), (13, 30374), (14, 30470), (15, 30515),

Gene: Techage_39 Start: 30336, Stop: 30569, Start Num: 8
Candidate Starts for Techage_39:
(2, 29943), (Start: 8 @30336 has 20 MA's), (10, 30357), (11, 30396), (13, 30414), (14, 30510), (15, 30555),

Gene: Venti_39 Start: 30310, Stop: 30543, Start Num: 8
Candidate Starts for Venti_39:
(2, 29920), (Start: 8 @30310 has 20 MA's), (10, 30331), (11, 30370), (13, 30388), (14, 30484), (15, 30529),

Gene: Vidya_39 Start: 30343, Stop: 30576, Start Num: 8
Candidate Starts for Vidya_39:
(2, 29953), (Start: 8 @30343 has 20 MA's), (10, 30364), (11, 30403), (13, 30421), (14, 30517), (15, 30562),

Gene: Xula_35 Start: 29536, Stop: 29778, Start Num: 6
Candidate Starts for Xula_35:
(1, 29026), (4, 29365), (Start: 6 @29536 has 3 MA's), (7, 29545), (9, 29566), (10, 29581), (12, 29623), (14, 29719), (15, 29764),

Gene: Zilizebeth_39 Start: 30342, Stop: 30575, Start Num: 8
Candidate Starts for Zilizebeth_39:
(2, 29952), (Start: 8 @30342 has 20 MA's), (10, 30363), (11, 30402), (13, 30420), (14, 30516), (15, 30561),