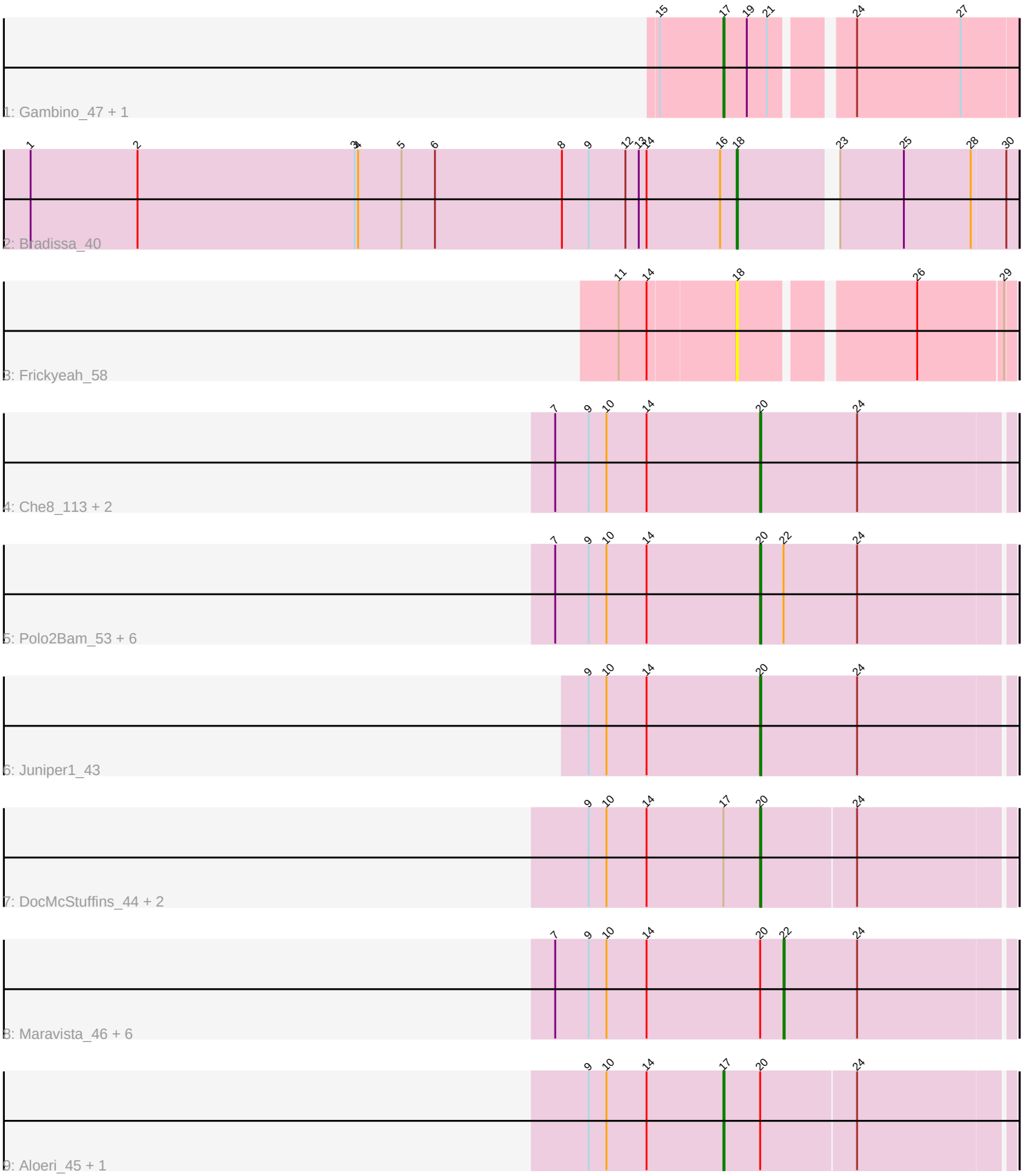
Pham 309111


15
17
19
21
24
27
1: Gambino_47 + 1
1
2
3
4
5
6
8
9
12
13
14
16
18
23
25
28
30
2: Bradissa_40
11
14
18
26
29
3: Frickyeah_58
7
9
10
14
20
24
4: Che8_113 + 2
7
9
10
14
20
22
24
5: Polo2Bam_53 + 6
9
10
14
20
24
6: Juniper1_43
9
10
14
17
20
24
7: DocMcStuffins_44 + 2
7
9
10
14
20
22
24
8: Maravista_46 + 6
9
10
14
17
20
24
9: Aloeri_45 + 1

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 309111 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309111 has 27 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Gambino_47, Azula_45
• Track 2 : Bradissa_40
• Track 3 : Frickyeah_58
• Track 4 : Che8_113, Sabbb_51, Mahavrat_43
• Track 5 : Polo2Bam_53, SeaLumen_51, JalFarm20_55, Soul22_50, Enzomatic_53, NewHope4_48, Doug_46
• Track 6 : Juniper1_43
• Track 7 : DocMcStuffins_44, TootsiePop_43, Misha28_43
• Track 8 : Maravista_46, Byougenkin_43, Fancypants_46, Bubbles123_43, Wachhund_48, QuickMath_46, MulchExplorer_47
• Track 9 : Aloeri_45, ChickenDinner_44

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

The start number called the most often in the published annotations is 20, it was called in 11 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Che8_113, DocMcStuffins_44, Doug_46, Enzomatic_53, JalFarm20_55, Juniper1_43, Mahavrat_43, Misha28_43, NewHope4_48, Polo2Bam_53, Sabbb_51, SeaLumen_51, Soul22_50, TootsiePop_43,

Genes that have the "Most Annotated" start but do not call it:
• Aloeri_45, Bubbles123_43, Byougenkin_43, ChickenDinner_44, Fancypants_46, Maravista_46, MulchExplorer_47, QuickMath_46, Wachhund_48,

Genes that do not have the "Most Annotated" start:
• Azula_45, Bradissa_40, Frickyeah_58, Gambino_47,

Summary by start number:

Start 17:
• Found in 7 of 27 (25.9%) of genes in pham
• Manual Annotations of this start: 4 of 23

• Called 57.1% of time when present
• Phage (with cluster) where this start called: Aloeri_45 (F1), Azula_45 (CV), ChickenDinner_44 (F1), Gambino_47 (CV),

Start 18:
• Found in 2 of 27 (7.4%) 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: Bradissa_40 (CY1), Frickyeah_58 (DN1),

Start 20:
• Found in 23 of 27 (85.2%) of genes in pham
• Manual Annotations of this start: 11 of 23
• Called 60.9% of time when present
• Phage (with cluster) where this start called: Che8_113 (F1), DocMcStuffins_44 (F1), Doug_46 (F1), Enzomatic_53 (F1), JalFarm20_55 (F1), Juniper1_43 (F1), Mahavrat_43 (F1), Misha28_43 (F1), NewHope4_48 (F1), Polo2Bam_53 (F1), Sabbb_51 (F1), SeaLumen_51 (F1), Soul22_50 (F2), TootsiePop_43 (F1),

Start 22:
• Found in 14 of 27 (51.9%) of genes in pham
• Manual Annotations of this start: 7 of 23
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Bubbles123_43 (F1), Byougenkin_43 (F1), Fancypants_46 (F1), Maravista_46 (F1), MulchExplorer_47 (F1), QuickMath_46 (F1), Wachhund_48 (F1),

Summary by clusters:

There are 5 clusters represented in this pham: CY1, F1, F2, DN1, CV,

Info for manual annotations of cluster CV:
•Start number 17 was manually annotated 2 times for cluster CV.

Info for manual annotations of cluster CY1:
•Start number 18 was manually annotated 1 time for cluster CY1.

Info for manual annotations of cluster F1:
•Start number 17 was manually annotated 2 times for cluster F1.
•Start number 20 was manually annotated 10 times for cluster F1.
•Start number 22 was manually annotated 7 times for cluster F1.

Info for manual annotations of cluster F2:
•Start number 20 was manually annotated 1 time for cluster F2.

Gene Information:

Gene: Aloeri_45 Start: 34310, Stop: 34561, Start Num: 17
Candidate Starts for Aloeri_45:

(9, 34190), (10, 34205), (14, 34241), (Start: 17 @34310 has 4 MA's), (Start: 20 @34343 has 11 MA's), (24, 34427),

Gene: Azula_45 Start: 34786, Stop: 35028, Start Num: 17
Candidate Starts for Azula_45:
(15, 34729), (Start: 17 @34786 has 4 MA's), (19, 34807), (21, 34825), (24, 34885), (27, 34978),

Gene: Bradissa_40 Start: 34406, Stop: 34642, Start Num: 18
Candidate Starts for Bradissa_40:
(1, 33773), (2, 33869), (3, 34064), (4, 34067), (5, 34106), (6, 34136), (8, 34250), (9, 34274), (12, 34307), (13, 34319), (14, 34325), (16, 34391), (Start: 18 @34406 has 1 MA's), (23, 34484), (25, 34541), (28, 34601), (30, 34631),

Gene: Bubbles123_43 Start: 35334, Stop: 35534, Start Num: 22
Candidate Starts for Bubbles123_43:
(7, 35130), (9, 35160), (10, 35175), (14, 35211), (Start: 20 @35313 has 11 MA's), (Start: 22 @35334 has 7 MA's), (24, 35400),

Gene: Byougenkin_43 Start: 34723, Stop: 34923, Start Num: 22
Candidate Starts for Byougenkin_43:
(7, 34519), (9, 34549), (10, 34564), (14, 34600), (Start: 20 @34702 has 11 MA's), (Start: 22 @34723 has 7 MA's), (24, 34789),

Gene: Che8_113 Start: 35866, Stop: 36087, Start Num: 20
Candidate Starts for Che8_113:
(7, 35683), (9, 35713), (10, 35728), (14, 35764), (Start: 20 @35866 has 11 MA's), (24, 35953),

Gene: ChickenDinner_44 Start: 34310, Stop: 34561, Start Num: 17
Candidate Starts for ChickenDinner_44:
(9, 34190), (10, 34205), (14, 34241), (Start: 17 @34310 has 4 MA's), (Start: 20 @34343 has 11 MA's), (24, 34427),

Gene: DocMcStuffins_44 Start: 34343, Stop: 34561, Start Num: 20
Candidate Starts for DocMcStuffins_44:
(9, 34190), (10, 34205), (14, 34241), (Start: 17 @34310 has 4 MA's), (Start: 20 @34343 has 11 MA's), (24, 34427),

Gene: Doug_46 Start: 35171, Stop: 35392, Start Num: 20
Candidate Starts for Doug_46:
(7, 34988), (9, 35018), (10, 35033), (14, 35069), (Start: 20 @35171 has 11 MA's), (Start: 22 @35192 has 7 MA's), (24, 35258),

Gene: Enzomatic_53 Start: 35313, Stop: 35534, Start Num: 20
Candidate Starts for Enzomatic_53:
(7, 35130), (9, 35160), (10, 35175), (14, 35211), (Start: 20 @35313 has 11 MA's), (Start: 22 @35334 has 7 MA's), (24, 35400),

Gene: Fancypants_46 Start: 35607, Stop: 35807, Start Num: 22
Candidate Starts for Fancypants_46:
(7, 35403), (9, 35433), (10, 35448), (14, 35484), (Start: 20 @35586 has 11 MA's), (Start: 22 @35607 has 7 MA's), (24, 35673),

Gene: Frickyeah_58 Start: 35466, Stop: 35690, Start Num: 18

Candidate Starts for Frickyeah_58:
(11, 35367), (14, 35391), (Start: 18 @35466 has 1 MA's), (26, 35607), (29, 35682),

Gene: Gambino_47 Start: 34786, Stop: 35028, Start Num: 17
Candidate Starts for Gambino_47:
(15, 34729), (Start: 17 @34786 has 4 MA's), (19, 34807), (21, 34825), (24, 34885), (27, 34978),

Gene: JalFarm20_55 Start: 37592, Stop: 37813, Start Num: 20
Candidate Starts for JalFarm20_55:
(7, 37409), (9, 37439), (10, 37454), (14, 37490), (Start: 20 @37592 has 11 MA's), (Start: 22 @37613 has 7 MA's), (24, 37679),

Gene: Juniper1_43 Start: 34402, Stop: 34623, Start Num: 20
Candidate Starts for Juniper1_43:
(9, 34249), (10, 34264), (14, 34300), (Start: 20 @34402 has 11 MA's), (24, 34489),

Gene: Mahavrat_43 Start: 34198, Stop: 34419, Start Num: 20
Candidate Starts for Mahavrat_43:
(7, 34015), (9, 34045), (10, 34060), (14, 34096), (Start: 20 @34198 has 11 MA's), (24, 34285),

Gene: Maravista_46 Start: 35616, Stop: 35816, Start Num: 22
Candidate Starts for Maravista_46:
(7, 35412), (9, 35442), (10, 35457), (14, 35493), (Start: 20 @35595 has 11 MA's), (Start: 22 @35616 has 7 MA's), (24, 35682),

Gene: Misha28_43 Start: 33610, Stop: 33828, Start Num: 20
Candidate Starts for Misha28_43:
(9, 33457), (10, 33472), (14, 33508), (Start: 17 @33577 has 4 MA's), (Start: 20 @33610 has 11 MA's), (24, 33694),

Gene: MulchExplorer_47 Start: 35856, Stop: 36056, Start Num: 22
Candidate Starts for MulchExplorer_47:
(7, 35652), (9, 35682), (10, 35697), (14, 35733), (Start: 20 @35835 has 11 MA's), (Start: 22 @35856 has 7 MA's), (24, 35922),

Gene: NewHope4_48 Start: 35459, Stop: 35680, Start Num: 20
Candidate Starts for NewHope4_48:
(7, 35276), (9, 35306), (10, 35321), (14, 35357), (Start: 20 @35459 has 11 MA's), (Start: 22 @35480 has 7 MA's), (24, 35546),

Gene: Polo2Bam_53 Start: 35313, Stop: 35534, Start Num: 20
Candidate Starts for Polo2Bam_53:
(7, 35130), (9, 35160), (10, 35175), (14, 35211), (Start: 20 @35313 has 11 MA's), (Start: 22 @35334 has 7 MA's), (24, 35400),

Gene: QuickMath_46 Start: 36080, Stop: 36280, Start Num: 22
Candidate Starts for QuickMath_46:
(7, 35876), (9, 35906), (10, 35921), (14, 35957), (Start: 20 @36059 has 11 MA's), (Start: 22 @36080 has 7 MA's), (24, 36146),

Gene: Sabbb_51 Start: 36333, Stop: 36554, Start Num: 20
Candidate Starts for Sabbb_51:
(7, 36150), (9, 36180), (10, 36195), (14, 36231), (Start: 20 @36333 has 11 MA's), (24, 36420),

Gene: SeaLumen_51 Start: 35313, Stop: 35534, Start Num: 20
Candidate Starts for SeaLumen_51:
(7, 35130), (9, 35160), (10, 35175), (14, 35211), (Start: 20 @35313 has 11 MA's), (Start: 22 @35334 has 7 MA's), (24, 35400),

Gene: Soul22_50 Start: 35015, Stop: 35236, Start Num: 20
Candidate Starts for Soul22_50:
(7, 34832), (9, 34862), (10, 34877), (14, 34913), (Start: 20 @35015 has 11 MA's), (Start: 22 @35036 has 7 MA's), (24, 35102),

Gene: TootsiePop_43 Start: 33610, Stop: 33828, Start Num: 20
Candidate Starts for TootsiePop_43:
(9, 33457), (10, 33472), (14, 33508), (Start: 17 @33577 has 4 MA's), (Start: 20 @33610 has 11 MA's), (24, 33694),

Gene: Wachhund_48 Start: 34805, Stop: 35005, Start Num: 22
Candidate Starts for Wachhund_48:
(7, 34601), (9, 34631), (10, 34646), (14, 34682), (Start: 20 @34784 has 11 MA's), (Start: 22 @34805 has 7 MA's), (24, 34871),