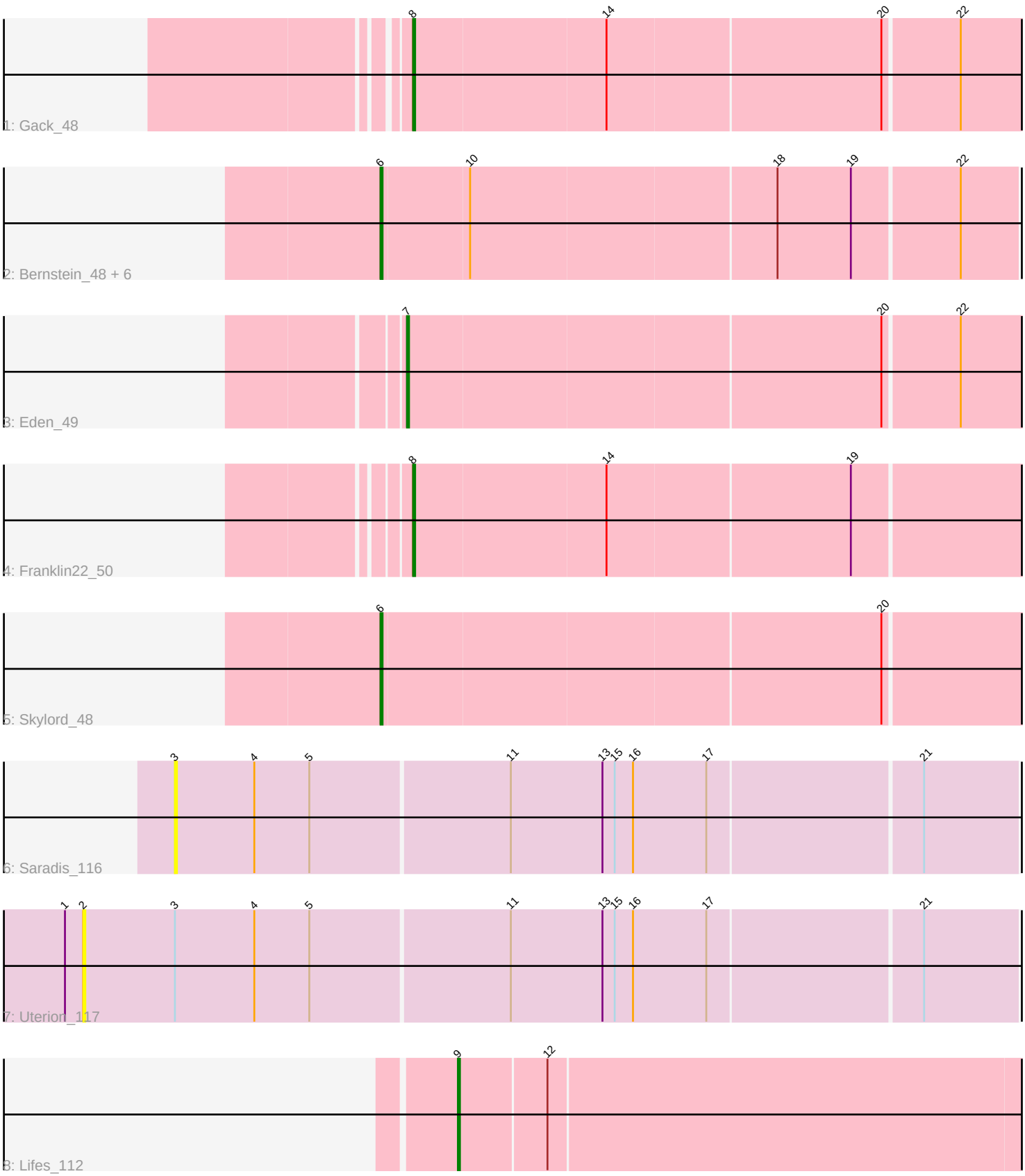
Pham 309536


8
14
20
22
1: Gack_48
6
10
18
19
22
2: Bernstein_48 + 6
7
20
22
3: Eden_49
8
14
19
4: Franklin22_50
6
20
5: Skylord_48
3
4
5
11
13
15
16
17
21
6: Saradis_116
1
2
3
4
5
11
13
15
16
17
21
7: Uterion_117
9
12
8: Lifes_112

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 309536 Report

This analysis was run 09/05/26 on database version 662.

Pham number 309536 has 14 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Gack_48
• Track 2 : Bernstein_48, Rollins_48, Clayda5_50, Coltrane_48, Brahms_48, Vitas_48, Armstrong_48
• Track 3 : Eden_49
• Track 4 : Franklin22_50
• Track 5 : Skylord_48
• Track 6 : Saradis_116
• Track 7 : Uterion_117
• Track 8 : Lifes_112

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

The start number called the most often in the published annotations is 6, it was called in 8 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Armstrong_48, Bernstein_48, Brahms_48, Clayda5_50, Coltrane_48, Rollins_48, Skylord_48, Vitas_48,

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

Genes that do not have the "Most Annotated" start:
• Eden_49, Franklin22_50, Gack_48, Lifes_112, Saradis_116, Uterion_117,

Summary by start number:

Start 2:
• Found in 1 of 14 (7.1%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Uterion_117 (ED1),

Start 3:

• Found in 2 of 14 (14.3%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Saradis_116 (ED1),

Start 6:
• Found in 8 of 14 (57.1%) of genes in pham
• Manual Annotations of this start: 8 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Armstrong_48 (EB), Bernstein_48 (EB), Brahms_48 (EB), Clayda5_50 (EB), Coltrane_48 (EB), Rollins_48 (EB), Skylord_48 (EB), Vitas_48 (EB),

Start 7:
• Found in 1 of 14 (7.1%) of genes in pham
• Manual Annotations of this start: 1 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Eden_49 (EB),

Start 8:
• Found in 2 of 14 (14.3%) of genes in pham
• Manual Annotations of this start: 2 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Franklin22_50 (EB), Gack_48 (EB),

Start 9:
• Found in 1 of 14 (7.1%) of genes in pham
• Manual Annotations of this start: 1 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Lifes_112 (GB),

Summary by clusters:

There are 3 clusters represented in this pham: ED1, GB, EB,

Info for manual annotations of cluster EB:
•Start number 6 was manually annotated 8 times for cluster EB.
•Start number 7 was manually annotated 1 time for cluster EB.
•Start number 8 was manually annotated 2 times for cluster EB.

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

Gene Information:

Gene: Armstrong_48 Start: 32505, Stop: 32819, Start Num: 6
Candidate Starts for Armstrong_48:
(Start: 6 @32505 has 8 MA's), (10, 32547), (18, 32694), (19, 32730), (22, 32781),

Gene: Bernstein_48 Start: 32503, Stop: 32817, Start Num: 6

Candidate Starts for Bernstein_48:
(Start: 6 @32503 has 8 MA's), (10, 32545), (18, 32692), (19, 32728), (22, 32779),

Gene: Brahms_48 Start: 32423, Stop: 32737, Start Num: 6
Candidate Starts for Brahms_48:
(Start: 6 @32423 has 8 MA's), (10, 32465), (18, 32612), (19, 32648), (22, 32699),

Gene: Clayda5_50 Start: 32488, Stop: 32802, Start Num: 6
Candidate Starts for Clayda5_50:
(Start: 6 @32488 has 8 MA's), (10, 32530), (18, 32677), (19, 32713), (22, 32764),

Gene: Coltrane_48 Start: 32423, Stop: 32737, Start Num: 6
Candidate Starts for Coltrane_48:
(Start: 6 @32423 has 8 MA's), (10, 32465), (18, 32612), (19, 32648), (22, 32699),

Gene: Eden_49 Start: 33518, Stop: 33847, Start Num: 7
Candidate Starts for Eden_49:
(Start: 7 @33518 has 1 MA's), (20, 33746), (22, 33782),

Gene: Franklin22_50 Start: 33066, Stop: 33392, Start Num: 8
Candidate Starts for Franklin22_50:
(Start: 8 @33066 has 2 MA's), (14, 33159), (19, 33276),

Gene: Gack_48 Start: 33118, Stop: 33444, Start Num: 8
Candidate Starts for Gack_48:
(Start: 8 @33118 has 2 MA's), (14, 33211), (20, 33343), (22, 33379),

Gene: Lifes_112 Start: 55394, Stop: 55107, Start Num: 9
Candidate Starts for Lifes_112:
(Start: 9 @55394 has 1 MA's), (12, 55352),

Gene: Rollins_48 Start: 32503, Stop: 32817, Start Num: 6
Candidate Starts for Rollins_48:
(Start: 6 @32503 has 8 MA's), (10, 32545), (18, 32692), (19, 32728), (22, 32779),

Gene: Saradis_116 Start: 59097, Stop: 58678, Start Num: 3
Candidate Starts for Saradis_116:
(3, 59097), (4, 59058), (5, 59031), (11, 58935), (13, 58890), (15, 58884), (16, 58875), (17, 58839), (21, 58737),

Gene: Skylord_48 Start: 32434, Stop: 32772, Start Num: 6
Candidate Starts for Skylord_48:
(Start: 6 @32434 has 8 MA's), (20, 32674),

Gene: Uterion_117 Start: 59102, Stop: 58638, Start Num: 2
Candidate Starts for Uterion_117:
(1, 59111), (2, 59102), (3, 59057), (4, 59018), (5, 58991), (11, 58895), (13, 58850), (15, 58844), (16, 58835), (17, 58799), (21, 58697),

Gene: Vitas_48 Start: 32494, Stop: 32808, Start Num: 6
Candidate Starts for Vitas_48:
(Start: 6 @32494 has 8 MA's), (10, 32536), (18, 32683), (19, 32719), (22, 32770),