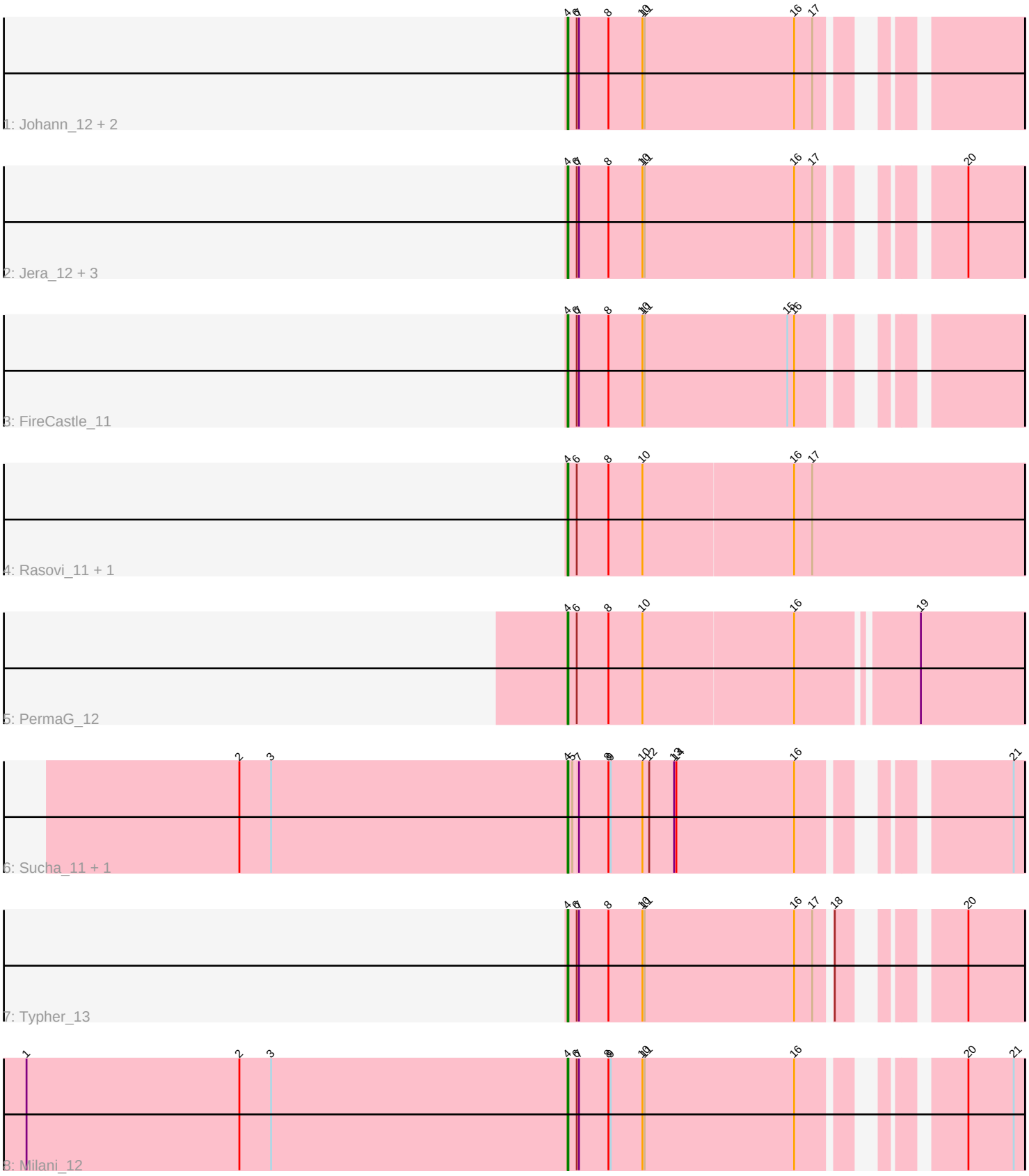
Pham 5409


1: Johann_12 + 2
2: Jera_12 + 3
3: FireCastle_11
4: Rasovi_11 + 1
5: PermaG_12
6: Sucha_11 + 1
7: Typher_13
8: Milani_12

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 5409 Report

This analysis was run 04/28/24 on database version 559.

Pham number 5409 has 15 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Johann_12, Goodman_12, Cicada_13
• Track 2 : Jera_12, TurboVicky_11, SBlackberry_11, Zanella_11
• Track 3 : FireCastle_11
• Track 4 : Rasovi_11, Htur_11
• Track 5 : PermaG_12
• Track 6 : Sucha_11, Benry_11
• Track 7 : Typher_13
• Track 8 : Milani_12

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

The start number called the most often in the published annotations is 4, it was called in 13 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Benry_11, Cicada_13, FireCastle_11, Goodman_12, Htur_11, Jera_12, Johann_12, Milani_12, PermaG_12, Rasovi_11, SBlackberry_11, Sucha_11, TurboVicky_11, Typher_13, Zanella_11,

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

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

Summary by start number:

Start 4:
• Found in 15 of 15 (100.0%) of genes in pham
• Manual Annotations of this start: 13 of 13
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Benry_11 (EJ), Cicada_13 (EJ), FireCastle_11 (EJ), Goodman_12 (EJ), Htur_11 (EJ), Jera_12 (EJ), Johann_12 (EJ), Milani_12 (EJ), PermaG_12 (EJ), Rasovi_11 (EJ), SBlackberry_11 (EJ), Sucha_11

(EJ), TurboVicky_11 (EJ), Typher_13 (EJ), Zanella_11 (EJ),

Summary by clusters:

There is one cluster represented in this pham: EJ

Info for manual annotations of cluster EJ:
•Start number 4 was manually annotated 13 times for cluster EJ.

Gene Information:

Gene: Benry_11 Start: 8002, Stop: 8529, Start Num: 4
Candidate Starts for Benry_11:
(2, 7567), (3, 7609), (Start: 4 @8002 has 13 MA's), (5, 8008), (7, 8014), (8, 8053), (9, 8056), (10, 8098), (12, 8107), (13, 8140), (14, 8143), (16, 8299), (21, 8515),

Gene: Cicada_13 Start: 10070, Stop: 10600, Start Num: 4
Candidate Starts for Cicada_13:
(Start: 4 @10070 has 13 MA's), (6, 10082), (7, 10085), (8, 10124), (10, 10169), (11, 10172), (16, 10370), (17, 10394),

Gene: FireCastle_11 Start: 9737, Stop: 10267, Start Num: 4
Candidate Starts for FireCastle_11:
(Start: 4 @9737 has 13 MA's), (6, 9749), (7, 9752), (8, 9791), (10, 9836), (11, 9839), (15, 10028), (16, 10037),

Gene: Goodman_12 Start: 9982, Stop: 10512, Start Num: 4
Candidate Starts for Goodman_12:
(Start: 4 @9982 has 13 MA's), (6, 9994), (7, 9997), (8, 10036), (10, 10081), (11, 10084), (16, 10282), (17, 10306),

Gene: Htur_11 Start: 9915, Stop: 10517, Start Num: 4
Candidate Starts for Htur_11:
(Start: 4 @9915 has 13 MA's), (6, 9927), (8, 9969), (10, 10014), (16, 10212), (17, 10236),

Gene: Jera_12 Start: 9064, Stop: 9594, Start Num: 4
Candidate Starts for Jera_12:
(Start: 4 @9064 has 13 MA's), (6, 9076), (7, 9079), (8, 9118), (10, 9163), (11, 9166), (16, 9364), (17, 9388), (20, 9520),

Gene: Johann_12 Start: 9982, Stop: 10512, Start Num: 4
Candidate Starts for Johann_12:
(Start: 4 @9982 has 13 MA's), (6, 9994), (7, 9997), (8, 10036), (10, 10081), (11, 10084), (16, 10282), (17, 10306),

Gene: Milani_12 Start: 8658, Stop: 9188, Start Num: 4
Candidate Starts for Milani_12:
(1, 7941), (2, 8223), (3, 8265), (Start: 4 @8658 has 13 MA's), (6, 8670), (7, 8673), (8, 8712), (9, 8715), (10, 8757), (11, 8760), (16, 8958), (20, 9114), (21, 9174),

Gene: PermaG_12 Start: 9996, Stop: 10577, Start Num: 4

Candidate Starts for PermaG_12:
(Start: 4 @9996 has 13 MA's), (6, 10008), (8, 10050), (10, 10095), (16, 10293), (19, 10440),

Gene: Rasovi_11 Start: 9915, Stop: 10517, Start Num: 4
Candidate Starts for Rasovi_11:
(Start: 4 @9915 has 13 MA's), (6, 9927), (8, 9969), (10, 10014), (16, 10212), (17, 10236),

Gene: SBlackberry_11 Start: 9823, Stop: 10353, Start Num: 4
Candidate Starts for SBlackberry_11:
(Start: 4 @9823 has 13 MA's), (6, 9835), (7, 9838), (8, 9877), (10, 9922), (11, 9925), (16, 10123), (17, 10147), (20, 10279),

Gene: Sucha_11 Start: 7999, Stop: 8526, Start Num: 4
Candidate Starts for Sucha_11:
(2, 7564), (3, 7606), (Start: 4 @7999 has 13 MA's), (5, 8005), (7, 8011), (8, 8050), (9, 8053), (10, 8095), (12, 8104), (13, 8137), (14, 8140), (16, 8296), (21, 8512),

Gene: TurboVicky_11 Start: 9817, Stop: 10347, Start Num: 4
Candidate Starts for TurboVicky_11:
(Start: 4 @9817 has 13 MA's), (6, 9829), (7, 9832), (8, 9871), (10, 9916), (11, 9919), (16, 10117), (17, 10141), (20, 10273),

Gene: Typher_13 Start: 9950, Stop: 10480, Start Num: 4
Candidate Starts for Typher_13:
(Start: 4 @9950 has 13 MA's), (6, 9962), (7, 9965), (8, 10004), (10, 10049), (11, 10052), (16, 10250), (17, 10274), (18, 10292), (20, 10406),

Gene: Zanella_11 Start: 9820, Stop: 10350, Start Num: 4
Candidate Starts for Zanella_11:
(Start: 4 @9820 has 13 MA's), (6, 9832), (7, 9835), (8, 9874), (10, 9919), (11, 9922), (16, 10120), (17, 10144), (20, 10276),