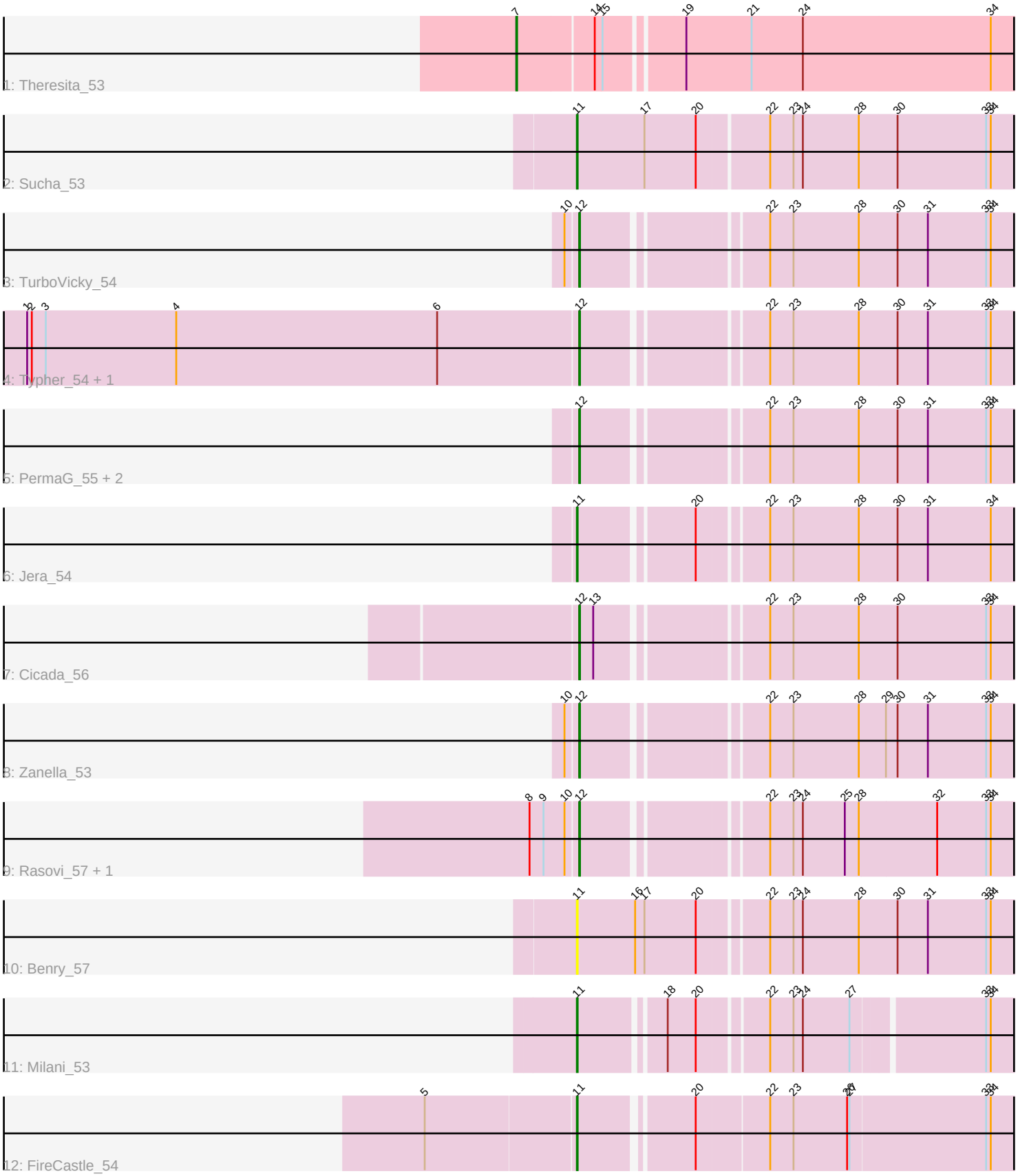
Pham 170384


1: Theresita_53
2: Sucha_53
3: TurboVicky_54
4: Typher_54 + 1
5: PermaG_55 + 2
6: Jera_54
7: Cicada_56
8: Zanella_53
9: Rasovi_57 + 1
10: Benry_57
11: Milani_53
12: FireCastle_54

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 170384 Report

This analysis was run 07/09/24 on database version 566.

Pham number 170384 has 16 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Theresita_53
• Track 2 : Sucha_53
• Track 3 : TurboVicky_54
• Track 4 : Typher_54, SBlackberry_52
• Track 5 : PermaG_55, Goodman_55, Johann_55
• Track 6 : Jera_54
• Track 7 : Cicada_56
• Track 8 : Zanella_53
• Track 9 : Rasovi_57, Htur_57
• Track 10 : Benry_57
• Track 11 : Milani_53
• Track 12 : FireCastle_54

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

The start number called the most often in the published annotations is 12, it was called in 10 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Cicada_56, Goodman_55, Htur_57, Johann_55, PermaG_55, Rasovi_57, SBlackberry_52, TurboVicky_54, Typher_54, Zanella_53,

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

Genes that do not have the "Most Annotated" start:
• Benry_57, FireCastle_54, Jera_54, Milani_53, Sucha_53, Theresita_53,

Summary by start number:

Start 7:
• Found in 1 of 16 (6.2%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Theresita_53 (EA7),

Start 11:
• Found in 5 of 16 (31.2%) of genes in pham
• Manual Annotations of this start: 4 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Benry_57 (EJ), FireCastle_54 (EJ), Jera_54 (EJ), Milani_53 (EJ), Sucha_53 (EJ),

Start 12:
• Found in 10 of 16 (62.5%) of genes in pham
• Manual Annotations of this start: 10 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cicada_56 (EJ), Goodman_55 (EJ), Htur_57 (EJ), Johann_55 (EJ), PermaG_55 (EJ), Rasovi_57 (EJ), SBlackberry_52 (EJ), TurboVicky_54 (EJ), Typher_54 (EJ), Zanella_53 (EJ),

Summary by clusters:

There are 2 clusters represented in this pham: EA7, EJ,

Info for manual annotations of cluster EA7:
•Start number 7 was manually annotated 1 time for cluster EA7.

Info for manual annotations of cluster EJ:
•Start number 11 was manually annotated 4 times for cluster EJ.
•Start number 12 was manually annotated 10 times for cluster EJ.

Gene Information:

Gene: Benry_57 Start: 38929, Stop: 39486, Start Num: 11
Candidate Starts for Benry_57:
(Start: 11 @38929 has 4 MA's), (16, 39004), (17, 39016), (20, 39082), (22, 39163), (23, 39193), (24, 39205), (28, 39277), (30, 39325), (31, 39364), (33, 39439), (34, 39445),

Gene: Cicada_56 Start: 39535, Stop: 40071, Start Num: 12
Candidate Starts for Cicada_56:
(Start: 12 @39535 has 10 MA's), (13, 39553), (22, 39748), (23, 39778), (28, 39862), (30, 39910), (33, 40024), (34, 40030),

Gene: FireCastle_54 Start: 39984, Stop: 40526, Start Num: 11
Candidate Starts for FireCastle_54:
(5, 39795), (Start: 11 @39984 has 4 MA's), (20, 40116), (22, 40206), (23, 40236), (26, 40305), (27, 40308), (33, 40479), (34, 40485),

Gene: Goodman_55 Start: 39551, Stop: 40087, Start Num: 12
Candidate Starts for Goodman_55:
(Start: 12 @39551 has 10 MA's), (22, 39764), (23, 39794), (28, 39878), (30, 39926), (31, 39965), (33, 40040), (34, 40046),

Gene: Htur_57 Start: 40207, Stop: 40743, Start Num: 12

Candidate Starts for Htur_57:
(8, 40150), (9, 40168), (10, 40195), (Start: 12 @40207 has 10 MA's), (22, 40420), (23, 40450), (24, 40462), (25, 40516), (28, 40534), (32, 40633), (33, 40696), (34, 40702),

Gene: Jera_54 Start: 38229, Stop: 38768, Start Num: 11
Candidate Starts for Jera_54:
(Start: 11 @38229 has 4 MA's), (20, 38364), (22, 38445), (23, 38475), (28, 38559), (30, 38607), (31, 38646), (34, 38727),

Gene: Johann_55 Start: 39551, Stop: 40087, Start Num: 12
Candidate Starts for Johann_55:
(Start: 12 @39551 has 10 MA's), (22, 39764), (23, 39794), (28, 39878), (30, 39926), (31, 39965), (33, 40040), (34, 40046),

Gene: Milani_53 Start: 39154, Stop: 39678, Start Num: 11
Candidate Starts for Milani_53:
(Start: 11 @39154 has 4 MA's), (18, 39253), (20, 39289), (22, 39370), (23, 39400), (24, 39412), (27, 39472), (33, 39631), (34, 39637),

Gene: PermaG_55 Start: 39476, Stop: 40012, Start Num: 12
Candidate Starts for PermaG_55:
(Start: 12 @39476 has 10 MA's), (22, 39689), (23, 39719), (28, 39803), (30, 39851), (31, 39890), (33, 39965), (34, 39971),

Gene: Rasovi_57 Start: 40207, Stop: 40743, Start Num: 12
Candidate Starts for Rasovi_57:
(8, 40150), (9, 40168), (10, 40195), (Start: 12 @40207 has 10 MA's), (22, 40420), (23, 40450), (24, 40462), (25, 40516), (28, 40534), (32, 40633), (33, 40696), (34, 40702),

Gene: SBlackberry_52 Start: 39277, Stop: 39813, Start Num: 12
Candidate Starts for SBlackberry_52:
(1, 38572), (2, 38578), (3, 38596), (4, 38764), (6, 39100), (Start: 12 @39277 has 10 MA's), (22, 39490), (23, 39520), (28, 39604), (30, 39652), (31, 39691), (33, 39766), (34, 39772),

Gene: Sucha_53 Start: 38354, Stop: 38917, Start Num: 11
Candidate Starts for Sucha_53:
(Start: 11 @38354 has 4 MA's), (17, 38441), (20, 38507), (22, 38594), (23, 38624), (24, 38636), (28, 38708), (30, 38756), (33, 38870), (34, 38876),

Gene: Theresita_53 Start: 37969, Stop: 38592, Start Num: 7
Candidate Starts for Theresita_53:
(Start: 7 @37969 has 1 MA's), (14, 38062), (15, 38071), (19, 38161), (21, 38245), (24, 38311), (34, 38551),

Gene: TurboVicky_54 Start: 39494, Stop: 40030, Start Num: 12
Candidate Starts for TurboVicky_54:
(10, 39482), (Start: 12 @39494 has 10 MA's), (22, 39707), (23, 39737), (28, 39821), (30, 39869), (31, 39908), (33, 39983), (34, 39989),

Gene: Typher_54 Start: 39053, Stop: 39589, Start Num: 12
Candidate Starts for Typher_54:
(1, 38348), (2, 38354), (3, 38372), (4, 38540), (6, 38876), (Start: 12 @39053 has 10 MA's), (22, 39266), (23, 39296), (28, 39380), (30, 39428), (31, 39467), (33, 39542), (34, 39548),

Gene: Zanella_53 Start: 39297, Stop: 39833, Start Num: 12
Candidate Starts for Zanella_53:
(10, 39285), (Start: 12 @39297 has 10 MA's), (22, 39510), (23, 39540), (28, 39624), (29, 39657), (30, 39672), (31, 39711), (33, 39786), (34, 39792),