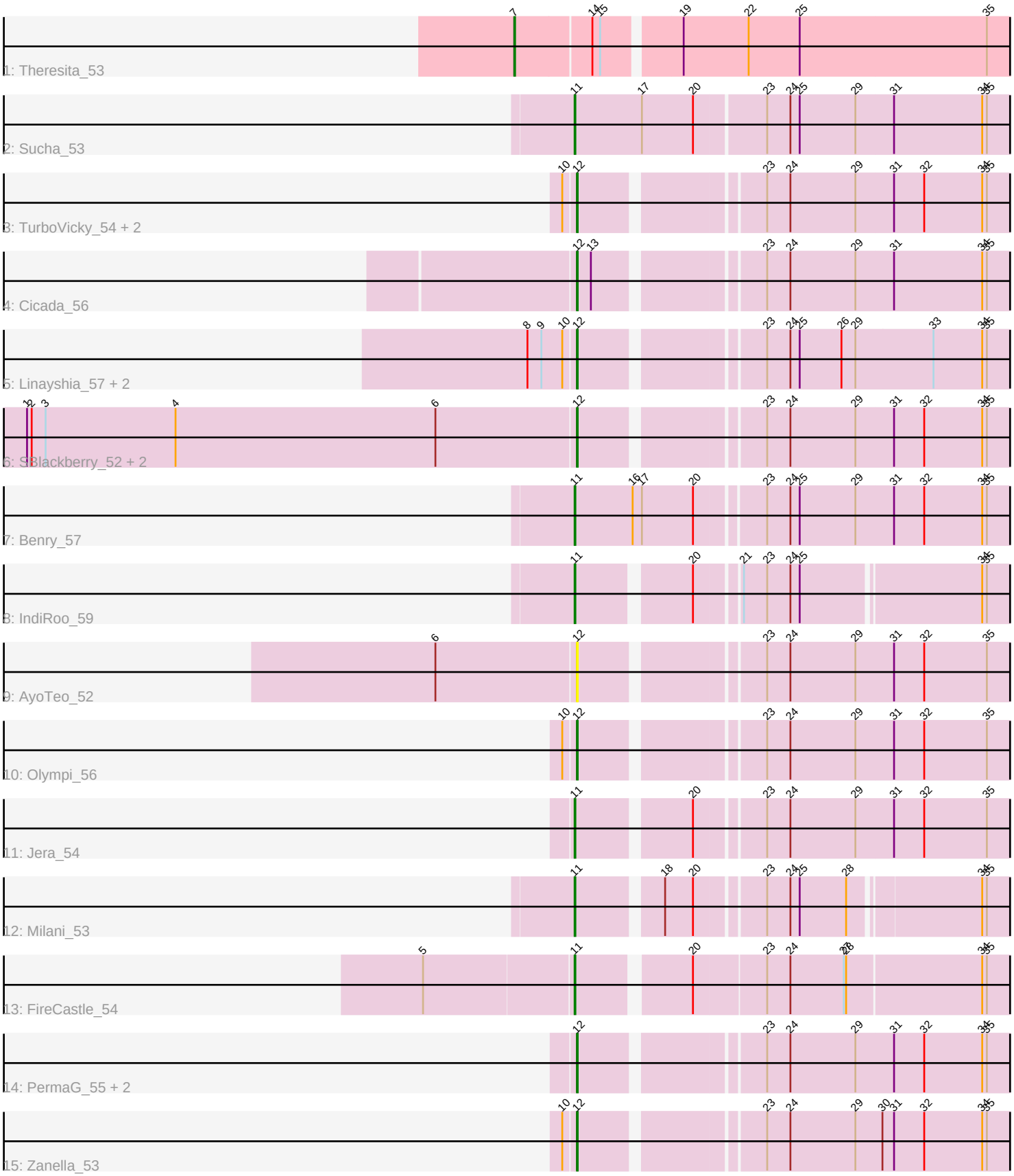
Pham 271026


1: Theresita_53
2: Sucha_53
3: TurboVicky_54 + 2
4: Cicada_56
5: Linayshia_57 + 2
6: SBlackberry_52 + 2
7: Benry_57
8: IndiRoo_59
9: AyoTeo_52
10: Olympi_56
11: Jera_54
12: Milani_53
13: FireCastle_54
14: PermaG_55 + 2
15: Zanella_53

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 271026 Report

This analysis was run 02/07/26 on database version 634.

Pham number 271026 has 23 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Theresita_53
• Track 2 : Sucha_53
• Track 3 : TurboVicky_54, Rootkit7_52, Alove_52
• Track 4 : Cicada_56
• Track 5 : Linayshia_57, Rasovi_57, Htur_57
• Track 6 : SBlackberry_52, Labella_54, Typher_54
• Track 7 : Benry_57
• Track 8 : IndiRoo_59
• Track 9 : AyoTeo_52
• Track 10 : Olympi_56
• Track 11 : Jera_54
• Track 12 : Milani_53
• Track 13 : FireCastle_54
• Track 14 : PermaG_55, Goodman_55, Johann_55
• Track 15 : Zanella_53

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 12 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Alove_52, AyoTeo_52, Cicada_56, Goodman_55, Htur_57, Johann_55, Labella_54, Linayshia_57, Olympi_56, PermaG_55, Rasovi_57, Rootkit7_52, 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, IndiRoo_59, Jera_54, Milani_53, Sucha_53, Theresita_53,

Summary by start number:

Start 7:
• Found in 1 of 23 (4.3%) of genes in pham
• Manual Annotations of this start: 1 of 19
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Theresita_53 (EA7),

Start 11:
• Found in 6 of 23 (26.1%) of genes in pham
• Manual Annotations of this start: 6 of 19
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Benry_57 (EJ), FireCastle_54 (EJ), IndiRoo_59 (EJ), Jera_54 (EJ), Milani_53 (EJ), Sucha_53 (EJ),

Start 12:
• Found in 16 of 23 (69.6%) of genes in pham
• Manual Annotations of this start: 12 of 19
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alove_52 (EJ), AyoTeo_52 (EJ), Cicada_56 (EJ), Goodman_55 (EJ), Htur_57 (EJ), Johann_55 (EJ), Labella_54 (EJ), Linayshia_57 (EJ), Olympi_56 (EJ), PermaG_55 (EJ), Rasovi_57 (EJ), Rootkit7_52 (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 6 times for cluster EJ.
•Start number 12 was manually annotated 12 times for cluster EJ.

Gene Information:

Gene: Alove_52 Start: 39317, Stop: 39853, Start Num: 12
Candidate Starts for Alove_52:
(10, 39305), (Start: 12 @39317 has 12 MA's), (23, 39530), (24, 39560), (29, 39644), (31, 39692), (32, 39731), (34, 39806), (35, 39812),

Gene: AyoTeo_52 Start: 39057, Stop: 39593, Start Num: 12
Candidate Starts for AyoTeo_52:
(6, 38880), (Start: 12 @39057 has 12 MA's), (23, 39270), (24, 39300), (29, 39384), (31, 39432), (32, 39471), (35, 39552),

Gene: Benry_57 Start: 38929, Stop: 39486, Start Num: 11
Candidate Starts for Benry_57:
(Start: 11 @38929 has 6 MA's), (16, 39004), (17, 39016), (20, 39082), (23, 39163), (24, 39193), (25, 39205), (29, 39277), (31, 39325), (32, 39364), (34, 39439), (35, 39445),

Gene: Cicada_56 Start: 39535, Stop: 40071, Start Num: 12

Candidate Starts for Cicada_56:
(Start: 12 @39535 has 12 MA's), (13, 39553), (23, 39748), (24, 39778), (29, 39862), (31, 39910), (34, 40024), (35, 40030),

Gene: FireCastle_54 Start: 39984, Stop: 40526, Start Num: 11
Candidate Starts for FireCastle_54:
(5, 39795), (Start: 11 @39984 has 6 MA's), (20, 40116), (23, 40206), (24, 40236), (27, 40305), (28, 40308), (34, 40479), (35, 40485),

Gene: Goodman_55 Start: 39551, Stop: 40087, Start Num: 12
Candidate Starts for Goodman_55:
(Start: 12 @39551 has 12 MA's), (23, 39764), (24, 39794), (29, 39878), (31, 39926), (32, 39965), (34, 40040), (35, 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 12 MA's), (23, 40420), (24, 40450), (25, 40462), (26, 40516), (29, 40534), (33, 40633), (34, 40696), (35, 40702),

Gene: IndiRoo_59 Start: 39328, Stop: 39852, Start Num: 11
Candidate Starts for IndiRoo_59:
(Start: 11 @39328 has 6 MA's), (20, 39460), (21, 39511), (23, 39541), (24, 39571), (25, 39583), (34, 39805), (35, 39811),

Gene: Jera_54 Start: 38229, Stop: 38768, Start Num: 11
Candidate Starts for Jera_54:
(Start: 11 @38229 has 6 MA's), (20, 38364), (23, 38445), (24, 38475), (29, 38559), (31, 38607), (32, 38646), (35, 38727),

Gene: Johann_55 Start: 39551, Stop: 40087, Start Num: 12
Candidate Starts for Johann_55:
(Start: 12 @39551 has 12 MA's), (23, 39764), (24, 39794), (29, 39878), (31, 39926), (32, 39965), (34, 40040), (35, 40046),

Gene: Labella_54 Start: 39053, Stop: 39589, Start Num: 12
Candidate Starts for Labella_54:
(1, 38348), (2, 38354), (3, 38372), (4, 38540), (6, 38876), (Start: 12 @39053 has 12 MA's), (23, 39266), (24, 39296), (29, 39380), (31, 39428), (32, 39467), (34, 39542), (35, 39548),

Gene: Linayshia_57 Start: 40174, Stop: 40710, Start Num: 12
Candidate Starts for Linayshia_57:
(8, 40117), (9, 40135), (10, 40162), (Start: 12 @40174 has 12 MA's), (23, 40387), (24, 40417), (25, 40429), (26, 40483), (29, 40501), (33, 40600), (34, 40663), (35, 40669),

Gene: Milani_53 Start: 39154, Stop: 39678, Start Num: 11
Candidate Starts for Milani_53:
(Start: 11 @39154 has 6 MA's), (18, 39253), (20, 39289), (23, 39370), (24, 39400), (25, 39412), (28, 39472), (34, 39631), (35, 39637),

Gene: Olympi_56 Start: 39269, Stop: 39805, Start Num: 12
Candidate Starts for Olympi_56:
(10, 39257), (Start: 12 @39269 has 12 MA's), (23, 39482), (24, 39512), (29, 39596), (31, 39644), (32, 39683), (35, 39764),

Gene: PermaG_55 Start: 39476, Stop: 40012, Start Num: 12
Candidate Starts for PermaG_55:
(Start: 12 @39476 has 12 MA's), (23, 39689), (24, 39719), (29, 39803), (31, 39851), (32, 39890), (34, 39965), (35, 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 12 MA's), (23, 40420), (24, 40450), (25, 40462), (26, 40516), (29, 40534), (33, 40633), (34, 40696), (35, 40702),

Gene: Rootkit7_52 Start: 39317, Stop: 39853, Start Num: 12
Candidate Starts for Rootkit7_52:
(10, 39305), (Start: 12 @39317 has 12 MA's), (23, 39530), (24, 39560), (29, 39644), (31, 39692), (32, 39731), (34, 39806), (35, 39812),

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 12 MA's), (23, 39490), (24, 39520), (29, 39604), (31, 39652), (32, 39691), (34, 39766), (35, 39772),

Gene: Sucha_53 Start: 38354, Stop: 38917, Start Num: 11
Candidate Starts for Sucha_53:
(Start: 11 @38354 has 6 MA's), (17, 38441), (20, 38507), (23, 38594), (24, 38624), (25, 38636), (29, 38708), (31, 38756), (34, 38870), (35, 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), (22, 38245), (25, 38311), (35, 38551),

Gene: TurboVicky_54 Start: 39494, Stop: 40030, Start Num: 12
Candidate Starts for TurboVicky_54:
(10, 39482), (Start: 12 @39494 has 12 MA's), (23, 39707), (24, 39737), (29, 39821), (31, 39869), (32, 39908), (34, 39983), (35, 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 12 MA's), (23, 39266), (24, 39296), (29, 39380), (31, 39428), (32, 39467), (34, 39542), (35, 39548),

Gene: Zanella_53 Start: 39297, Stop: 39833, Start Num: 12
Candidate Starts for Zanella_53:
(10, 39285), (Start: 12 @39297 has 12 MA's), (23, 39510), (24, 39540), (29, 39624), (30, 39657), (31, 39672), (32, 39711), (34, 39786), (35, 39792),