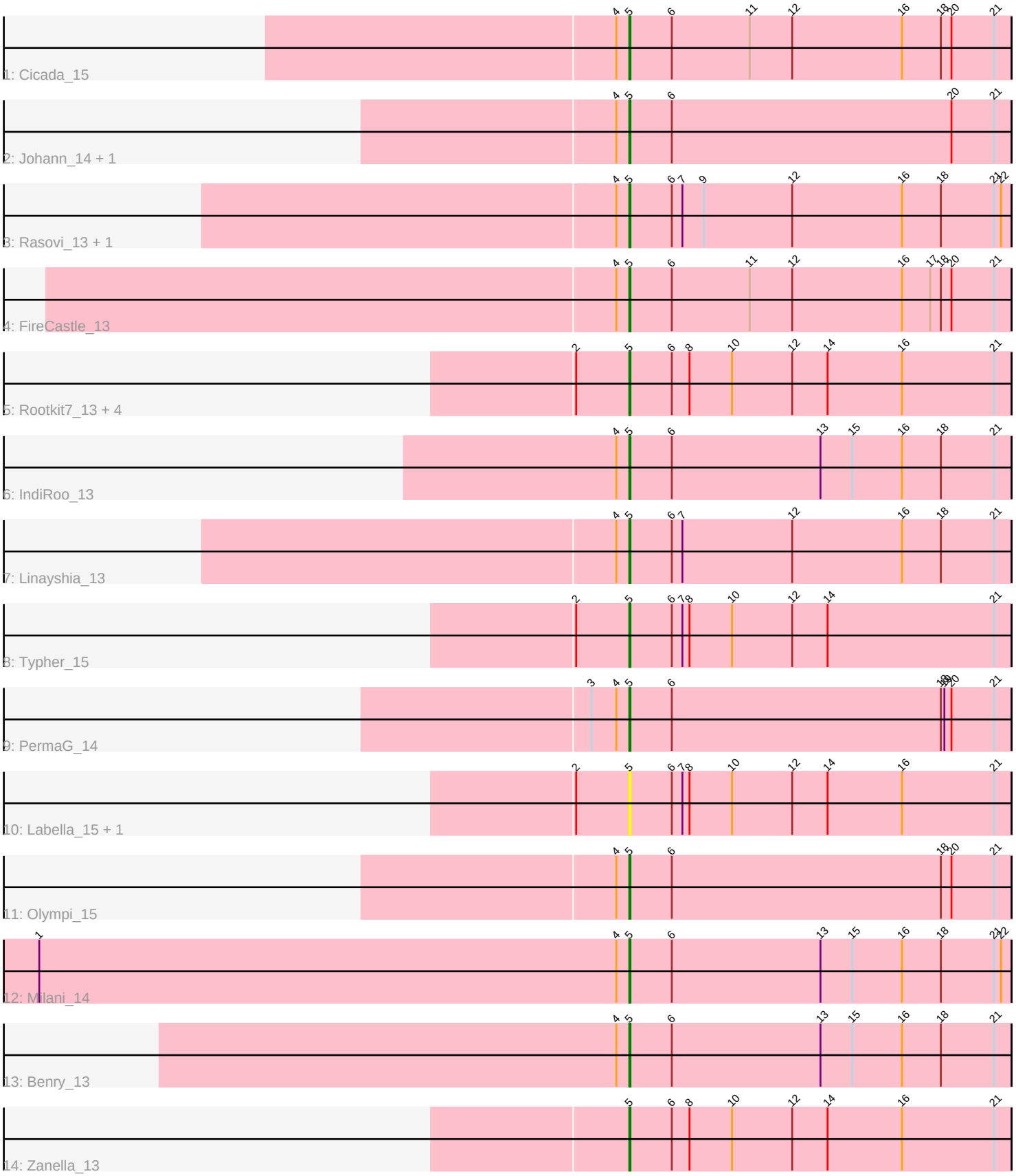
Pham 296948


1: Cicada_15
2: Johann_14 + 1
3: Rasovi_13 + 1
4: FireCastle_13
5: Rootkit7_13 + 4
6: IndiRoo_13
7: Linayshia_13
8: Typher_15
9: PermaG_14
10: Labella_15 + 1
11: Olympi_15
12: Milani_14
13: Benry_13
14: Zanella_13

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 296948 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296948 has 21 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Cicada_15
• Track 2 : Johann_14, Goodman_14
• Track 3 : Rasovi_13, Htur_13
• Track 4 : FireCastle_13
• Track 5 : Rootkit7_13, TurboVicky_13, Jera_14, Alove_13, SBlackberry_13
• Track 6 : IndiRoo_13
• Track 7 : Linayshia_13
• Track 8 : Typher_15
• Track 9 : PermaG_14
• Track 10 : Labella_15, AyoTeo_15
• Track 11 : Olympi_15
• Track 12 : Milani_14
• Track 13 : Benry_13
• Track 14 : Zanella_13

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

The start number called the most often in the published annotations is 5, it was called in 17 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Alove_13, AyoTeo_15, Benry_13, Cicada_15, FireCastle_13, Goodman_14, Htur_13, IndiRoo_13, Jera_14, Johann_14, Labella_15, Linayshia_13, Milani_14, Olympi_15, PermaG_14, Rasovi_13, Rootkit7_13, SBlackberry_13, TurboVicky_13, Typher_15, Zanella_13,

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 5:
• Found in 21 of 21 (100.0%) of genes in pham
• Manual Annotations of this start: 17 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alove_13 (EJ), AyoTeo_15 (EJ), Benry_13 (EJ), Cicada_15 (EJ), FireCastle_13 (EJ), Goodman_14 (EJ), Htur_13 (EJ), IndiRoo_13 (EJ), Jera_14 (EJ), Johann_14 (EJ), Labella_15 (EJ), Linayshia_13 (EJ), Milani_14 (EJ), Olympi_15 (EJ), PermaG_14 (EJ), Rasovi_13 (EJ), Rootkit7_13 (EJ), SBlackberry_13 (EJ), TurboVicky_13 (EJ), Typher_15 (EJ), Zanella_13 (EJ),

Summary by clusters:

There is one cluster represented in this pham: EJ

Info for manual annotations of cluster EJ:
•Start number 5 was manually annotated 17 times for cluster EJ.

Gene Information:

Gene: Alove_13 Start: 10895, Stop: 11218, Start Num: 5
Candidate Starts for Alove_13:
(2, 10850), (Start: 5 @10895 has 17 MA's), (6, 10931), (8, 10946), (10, 10982), (12, 11033), (14, 11063), (16, 11126), (21, 11204),

Gene: AyoTeo_15 Start: 11026, Stop: 11349, Start Num: 5
Candidate Starts for AyoTeo_15:
(2, 10981), (Start: 5 @11026 has 17 MA's), (6, 11062), (7, 11071), (8, 11077), (10, 11113), (12, 11164), (14, 11194), (16, 11257), (21, 11335),

Gene: Benry_13 Start: 9080, Stop: 9403, Start Num: 5
Candidate Starts for Benry_13:
(4, 9071), (Start: 5 @9080 has 17 MA's), (6, 9116), (13, 9242), (15, 9269), (16, 9311), (18, 9344), (21, 9389),

Gene: Cicada_15 Start: 11149, Stop: 11472, Start Num: 5
Candidate Starts for Cicada_15:
(4, 11140), (Start: 5 @11149 has 17 MA's), (6, 11185), (11, 11251), (12, 11287), (16, 11380), (18, 11413), (20, 11422), (21, 11458),

Gene: FireCastle_13 Start: 10810, Stop: 11133, Start Num: 5
Candidate Starts for FireCastle_13:
(4, 10801), (Start: 5 @10810 has 17 MA's), (6, 10846), (11, 10912), (12, 10948), (16, 11041), (17, 11065), (18, 11074), (20, 11083), (21, 11119),

Gene: Goodman_14 Start: 11061, Stop: 11384, Start Num: 5
Candidate Starts for Goodman_14:
(4, 11052), (Start: 5 @11061 has 17 MA's), (6, 11097), (20, 11334), (21, 11370),

Gene: Htur_13 Start: 11064, Stop: 11387, Start Num: 5
Candidate Starts for Htur_13:

(4, 11055), (Start: 5 @11064 has 17 MA's), (6, 11100), (7, 11109), (9, 11127), (12, 11202), (16, 11295), (18, 11328), (21, 11373), (22, 11379),

Gene: IndiRoo_13 Start: 9088, Stop: 9411, Start Num: 5
Candidate Starts for IndiRoo_13:
(4, 9079), (Start: 5 @9088 has 17 MA's), (6, 9124), (13, 9250), (15, 9277), (16, 9319), (18, 9352), (21, 9397),

Gene: Jera_14 Start: 10142, Stop: 10465, Start Num: 5
Candidate Starts for Jera_14:
(2, 10097), (Start: 5 @10142 has 17 MA's), (6, 10178), (8, 10193), (10, 10229), (12, 10280), (14, 10310), (16, 10373), (21, 10451),

Gene: Johann_14 Start: 11061, Stop: 11384, Start Num: 5
Candidate Starts for Johann_14:
(4, 11052), (Start: 5 @11061 has 17 MA's), (6, 11097), (20, 11334), (21, 11370),

Gene: Labella_15 Start: 11030, Stop: 11353, Start Num: 5
Candidate Starts for Labella_15:
(2, 10985), (Start: 5 @11030 has 17 MA's), (6, 11066), (7, 11075), (8, 11081), (10, 11117), (12, 11168), (14, 11198), (16, 11261), (21, 11339),

Gene: Linayshia_13 Start: 11056, Stop: 11379, Start Num: 5
Candidate Starts for Linayshia_13:
(4, 11047), (Start: 5 @11056 has 17 MA's), (6, 11092), (7, 11101), (12, 11194), (16, 11287), (18, 11320), (21, 11365),

Gene: Milani_14 Start: 9739, Stop: 10062, Start Num: 5
Candidate Starts for Milani_14:
(1, 9241), (4, 9730), (Start: 5 @9739 has 17 MA's), (6, 9775), (13, 9901), (15, 9928), (16, 9970), (18, 10003), (21, 10048), (22, 10054),

Gene: Olympi_15 Start: 11052, Stop: 11375, Start Num: 5
Candidate Starts for Olympi_15:
(4, 11043), (Start: 5 @11052 has 17 MA's), (6, 11088), (18, 11316), (20, 11325), (21, 11361),

Gene: PermaG_14 Start: 11124, Stop: 11447, Start Num: 5
Candidate Starts for PermaG_14:
(3, 11094), (4, 11115), (Start: 5 @11124 has 17 MA's), (6, 11160), (18, 11388), (19, 11391), (20, 11397), (21, 11433),

Gene: Rasovi_13 Start: 11064, Stop: 11387, Start Num: 5
Candidate Starts for Rasovi_13:
(4, 11055), (Start: 5 @11064 has 17 MA's), (6, 11100), (7, 11109), (9, 11127), (12, 11202), (16, 11295), (18, 11328), (21, 11373), (22, 11379),

Gene: Rootkit7_13 Start: 10895, Stop: 11218, Start Num: 5
Candidate Starts for Rootkit7_13:
(2, 10850), (Start: 5 @10895 has 17 MA's), (6, 10931), (8, 10946), (10, 10982), (12, 11033), (14, 11063), (16, 11126), (21, 11204),

Gene: SBlackberry_13 Start: 10901, Stop: 11224, Start Num: 5
Candidate Starts for SBlackberry_13:

(2, 10856), (Start: 5 @10901 has 17 MA's), (6, 10937), (8, 10952), (10, 10988), (12, 11039), (14, 11069), (16, 11132), (21, 11210),

Gene: TurboVicky_13 Start: 10895, Stop: 11218, Start Num: 5
Candidate Starts for TurboVicky_13:
(2, 10850), (Start: 5 @10895 has 17 MA's), (6, 10931), (8, 10946), (10, 10982), (12, 11033), (14, 11063), (16, 11126), (21, 11204),

Gene: Typher_15 Start: 11029, Stop: 11352, Start Num: 5
Candidate Starts for Typher_15:
(2, 10984), (Start: 5 @11029 has 17 MA's), (6, 11065), (7, 11074), (8, 11080), (10, 11116), (12, 11167), (14, 11197), (21, 11338),

Gene: Zanella_13 Start: 10898, Stop: 11221, Start Num: 5
Candidate Starts for Zanella_13:
(Start: 5 @10898 has 17 MA's), (6, 10934), (8, 10949), (10, 10985), (12, 11036), (14, 11066), (16, 11129), (21, 11207),