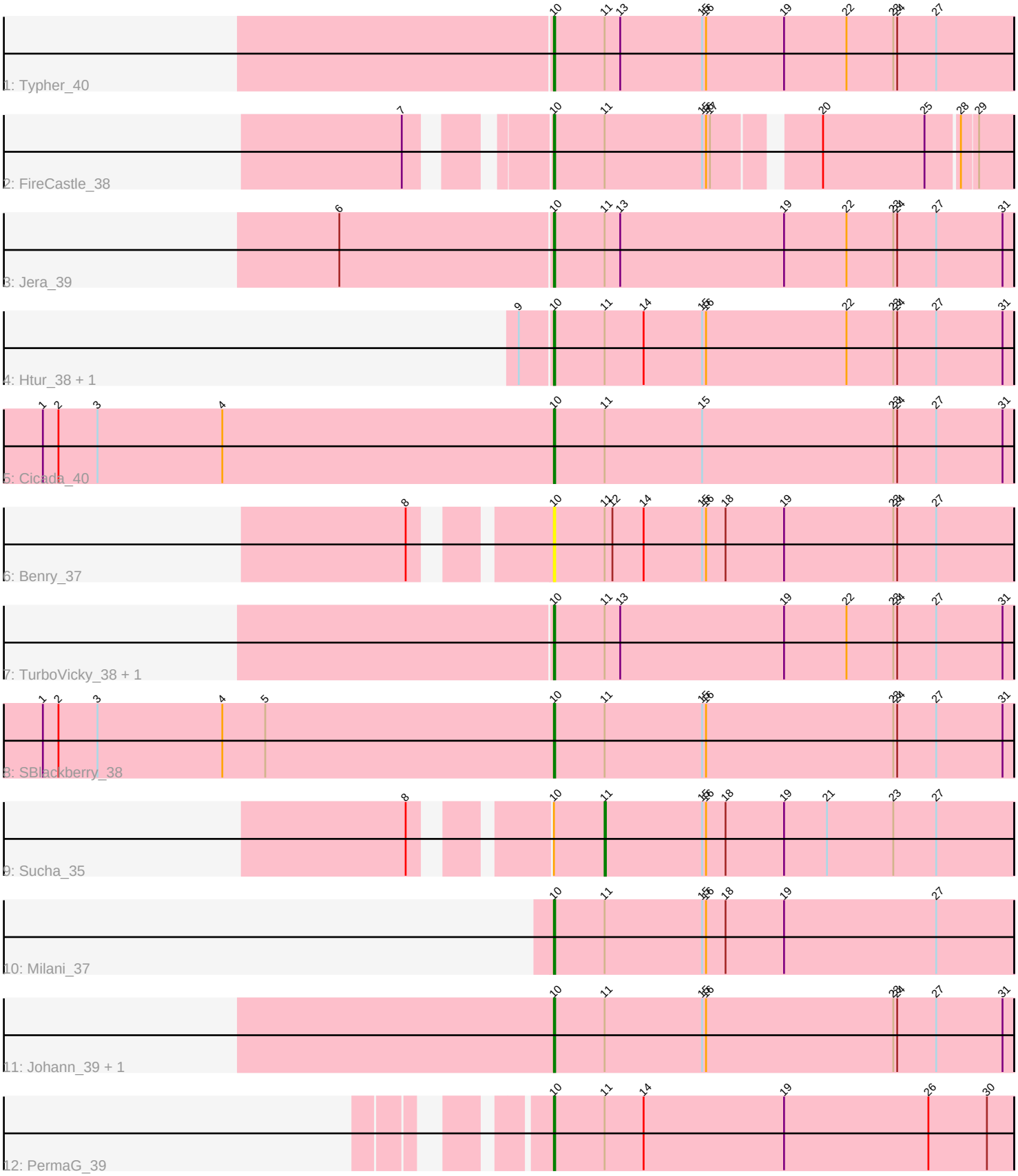
Pham 5287


1: Typher_40
2: FireCastle_38
3: Jera_39
4: Htur_38 + 1
5: Cicada_40
6: Benry_37
7: TurboVicky_38 + 1
8: SBlackberry_38
9: Sucha_35
10: Milani_37
11: Johann_39 + 1
12: PermaG_39

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 5287 Report

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

Pham number 5287 has 15 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Typher_40
• Track 2 : FireCastle_38
• Track 3 : Jera_39
• Track 4 : Htur_38, Rasovi_38
• Track 5 : Cicada_40
• Track 6 : Benry_37
• Track 7 : TurboVicky_38, Zanella_38
• Track 8 : SBlackberry_38
• Track 9 : Sucha_35
• Track 10 : Milani_37
• Track 11 : Johann_39, Goodman_39
• Track 12 : PermaG_39

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

The start number called the most often in the published annotations is 10, it was called in 12 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Benry_37, Cicada_40, FireCastle_38, Goodman_39, Htur_38, Jera_39, Johann_39, Milani_37, PermaG_39, Rasovi_38, SBlackberry_38, TurboVicky_38, Typher_40, Zanella_38,

Genes that have the "Most Annotated" start but do not call it:
• Sucha_35,

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

Summary by start number:

Start 10:
• Found in 15 of 15 (100.0%) of genes in pham
• Manual Annotations of this start: 12 of 13

• Called 93.3% of time when present
• Phage (with cluster) where this start called: Benry_37 (EJ), Cicada_40 (EJ), FireCastle_38 (EJ), Goodman_39 (EJ), Htur_38 (EJ), Jera_39 (EJ), Johann_39 (EJ), Milani_37 (EJ), PermaG_39 (EJ), Rasovi_38 (EJ), SBlackberry_38 (EJ), TurboVicky_38 (EJ), Typher_40 (EJ), Zanella_38 (EJ),

Start 11:
• Found in 15 of 15 (100.0%) of genes in pham
• Manual Annotations of this start: 1 of 13
• Called 6.7% of time when present
• Phage (with cluster) where this start called: Sucha_35 (EJ),

Summary by clusters:

There is one cluster represented in this pham: EJ

Info for manual annotations of cluster EJ:
•Start number 10 was manually annotated 12 times for cluster EJ.
•Start number 11 was manually annotated 1 time for cluster EJ.

Gene Information:

Gene: Benry_37 Start: 24222, Stop: 24575, Start Num: 10
Candidate Starts for Benry_37:
(8, 24141), (Start: 10 @24222 has 12 MA's), (Start: 11 @24261 has 1 MA's), (12, 24267), (14, 24291), (15, 24336), (16, 24339), (18, 24354), (19, 24399), (23, 24483), (24, 24486), (27, 24516),

Gene: Cicada_40 Start: 26117, Stop: 26470, Start Num: 10
Candidate Starts for Cicada_40:
(1, 25724), (2, 25736), (3, 25766), (4, 25862), (Start: 10 @26117 has 12 MA's), (Start: 11 @26156 has 1 MA's), (15, 26231), (23, 26378), (24, 26381), (27, 26411), (31, 26462),

Gene: FireCastle_38 Start: 25839, Stop: 26168, Start Num: 10
Candidate Starts for FireCastle_38:
(7, 25758), (Start: 10 @25839 has 12 MA's), (Start: 11 @25878 has 1 MA's), (15, 25953), (16, 25956), (17, 25959), (20, 26028), (25, 26106), (28, 26130), (29, 26142),

Gene: Goodman_39 Start: 26022, Stop: 26375, Start Num: 10
Candidate Starts for Goodman_39:
(Start: 10 @26022 has 12 MA's), (Start: 11 @26061 has 1 MA's), (15, 26136), (16, 26139), (23, 26283), (24, 26286), (27, 26316), (31, 26367),

Gene: Htur_38 Start: 26121, Stop: 26474, Start Num: 10
Candidate Starts for Htur_38:
(9, 26097), (Start: 10 @26121 has 12 MA's), (Start: 11 @26160 has 1 MA's), (14, 26190), (15, 26235), (16, 26238), (22, 26346), (23, 26382), (24, 26385), (27, 26415), (31, 26466),

Gene: Jera_39 Start: 25172, Stop: 25525, Start Num: 10
Candidate Starts for Jera_39:
(6, 25010), (Start: 10 @25172 has 12 MA's), (Start: 11 @25211 has 1 MA's), (13, 25223), (19, 25349), (22, 25397), (23, 25433), (24, 25436), (27, 25466), (31, 25517),

Gene: Johann_39 Start: 26022, Stop: 26375, Start Num: 10
Candidate Starts for Johann_39:
(Start: 10 @26022 has 12 MA's), (Start: 11 @26061 has 1 MA's), (15, 26136), (16, 26139), (23, 26283), (24, 26286), (27, 26316), (31, 26367),

Gene: Milani_37 Start: 24682, Stop: 25035, Start Num: 10
Candidate Starts for Milani_37:
(Start: 10 @24682 has 12 MA's), (Start: 11 @24721 has 1 MA's), (15, 24796), (16, 24799), (18, 24814), (19, 24859), (27, 24976),

Gene: PermaG_39 Start: 25920, Stop: 26273, Start Num: 10
Candidate Starts for PermaG_39:
(Start: 10 @25920 has 12 MA's), (Start: 11 @25959 has 1 MA's), (14, 25989), (19, 26097), (26, 26208), (30, 26253),

Gene: Rasovi_38 Start: 26121, Stop: 26474, Start Num: 10
Candidate Starts for Rasovi_38:
(9, 26097), (Start: 10 @26121 has 12 MA's), (Start: 11 @26160 has 1 MA's), (14, 26190), (15, 26235), (16, 26238), (22, 26346), (23, 26382), (24, 26385), (27, 26415), (31, 26466),

Gene: SBlackberry_38 Start: 25895, Stop: 26248, Start Num: 10
Candidate Starts for SBlackberry_38:
(1, 25502), (2, 25514), (3, 25544), (4, 25640), (5, 25673), (Start: 10 @25895 has 12 MA's), (Start: 11 @25934 has 1 MA's), (15, 26009), (16, 26012), (23, 26156), (24, 26159), (27, 26189), (31, 26240),

Gene: Sucha_35 Start: 23427, Stop: 23741, Start Num: 11
Candidate Starts for Sucha_35:
(8, 23307), (Start: 10 @23388 has 12 MA's), (Start: 11 @23427 has 1 MA's), (15, 23502), (16, 23505), (18, 23520), (19, 23565), (21, 23598), (23, 23649), (27, 23682),

Gene: TurboVicky_38 Start: 25920, Stop: 26273, Start Num: 10
Candidate Starts for TurboVicky_38:
(Start: 10 @25920 has 12 MA's), (Start: 11 @25959 has 1 MA's), (13, 25971), (19, 26097), (22, 26145), (23, 26181), (24, 26184), (27, 26214), (31, 26265),

Gene: Typher_40 Start: 26038, Stop: 26391, Start Num: 10
Candidate Starts for Typher_40:
(Start: 10 @26038 has 12 MA's), (Start: 11 @26077 has 1 MA's), (13, 26089), (15, 26152), (16, 26155), (19, 26215), (22, 26263), (23, 26299), (24, 26302), (27, 26332),

Gene: Zanella_38 Start: 25918, Stop: 26271, Start Num: 10
Candidate Starts for Zanella_38:
(Start: 10 @25918 has 12 MA's), (Start: 11 @25957 has 1 MA's), (13, 25969), (19, 26095), (22, 26143), (23, 26179), (24, 26182), (27, 26212), (31, 26263),