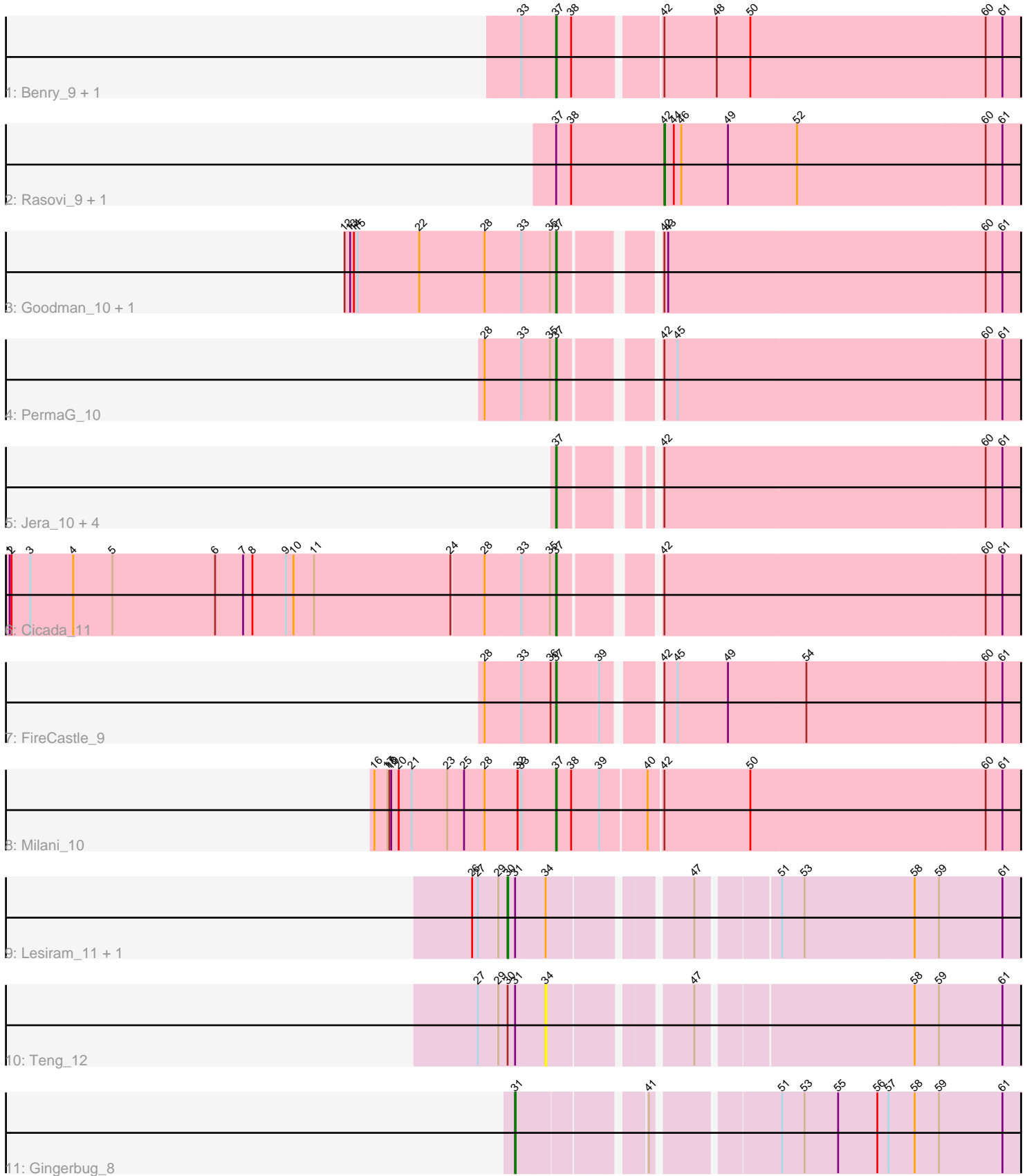


Pham 170333



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 170333 Report

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

Pham number 170333 has 19 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Benry_9, Sucha_9
- Track 2 : Rasovi_9, Htur_9
- Track 3 : Goodman_10, Johann_10
- Track 4 : PermaG_10
- Track 5 : Jera_10, SBlackberry_9, Typher_11, TurboVicky_9, Zanella_9
- Track 6 : Cicada_11
- Track 7 : FireCastle_9
- Track 8 : Milani_10
- Track 9 : Lesiram_11, DelaGarza_11
- Track 10 : Teng_12
- Track 11 : Gingerbug_8

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

The start number called the most often in the published annotations is 37, it was called in 12 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Benry_9, Cicada_11, FireCastle_9, Goodman_10, Jera_10, Johann_10, Milani_10, PermaG_10, SBlackberry_9, Sucha_9, TurboVicky_9, Typher_11, Zanella_9,

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

- Htur_9, Rasovi_9,

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

- DelaGarza_11, Gingerbug_8, Lesiram_11, Teng_12,

Summary by start number:

Start 30:

- Found in 3 of 19 (15.8%) of genes in pham
- Manual Annotations of this start: 2 of 17
- Called 66.7% of time when present
- Phage (with cluster) where this start called: DelaGarza_11 (GF), Lesiram_11 (GF),

Start 31:

- Found in 4 of 19 (21.1%) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Gingerbug_8 (GF),

Start 34:

- Found in 3 of 19 (15.8%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Teng_12 (GF),

Start 37:

- Found in 15 of 19 (78.9%) of genes in pham
- Manual Annotations of this start: 12 of 17
- Called 86.7% of time when present
- Phage (with cluster) where this start called: Benry_9 (EJ), Cicada_11 (EJ), FireCastle_9 (EJ), Goodman_10 (EJ), Jera_10 (EJ), Johann_10 (EJ), Milani_10 (EJ), PermaG_10 (EJ), SBlackberry_9 (EJ), Sucha_9 (EJ), TurboVicky_9 (EJ), Typher_11 (EJ), Zanella_9 (EJ),

Start 42:

- Found in 15 of 19 (78.9%) of genes in pham
- Manual Annotations of this start: 2 of 17
- Called 13.3% of time when present
- Phage (with cluster) where this start called: Htur_9 (EJ), Rasovi_9 (EJ),

Summary by clusters:

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

Info for manual annotations of cluster EJ:

- Start number 37 was manually annotated 12 times for cluster EJ.
- Start number 42 was manually annotated 2 times for cluster EJ.

Info for manual annotations of cluster GF:

- Start number 30 was manually annotated 2 times for cluster GF.
- Start number 31 was manually annotated 1 time for cluster GF.

Gene Information:

Gene: Benry_9 Start: 6358, Stop: 7122, Start Num: 37

Candidate Starts for Benry_9:

(33, 6304), (Start: 37 @6358 has 12 MA's), (38, 6382), (Start: 42 @6511 has 2 MA's), (48, 6595), (50, 6649), (60, 7021), (61, 7048),

Gene: Cicada_11 Start: 8447, Stop: 9187, Start Num: 37

Candidate Starts for Cicada_11:

(1, 7577), (2, 7580), (3, 7610), (4, 7679), (5, 7742), (6, 7907), (7, 7952), (8, 7967), (9, 8021), (10, 8033), (11, 8066), (24, 8285), (28, 8336), (33, 8393), (35, 8438), (Start: 37 @8447 has 12 MA's),

(Start: 42 @8576 has 2 MA's), (60, 9086), (61, 9113),

Gene: DelaGarza_11 Start: 6593, Stop: 7396, Start Num: 30

Candidate Starts for DelaGarza_11:

(26, 6536), (27, 6545), (29, 6578), (Start: 30 @6593 has 2 MA's), (Start: 31 @6605 has 1 MA's), (34, 6653), (47, 6857), (51, 6974), (53, 7010), (58, 7184), (59, 7223), (61, 7325),

Gene: FireCastle_9 Start: 8109, Stop: 8858, Start Num: 37

Candidate Starts for FireCastle_9:

(28, 7998), (33, 8055), (36, 8100), (Start: 37 @8109 has 12 MA's), (39, 8175), (Start: 42 @8247 has 2 MA's), (45, 8268), (49, 8349), (54, 8472), (60, 8757), (61, 8784),

Gene: Gingerbug_8 Start: 5806, Stop: 6582, Start Num: 31

Candidate Starts for Gingerbug_8:

(Start: 31 @5806 has 1 MA's), (41, 5980), (51, 6160), (53, 6196), (55, 6250), (56, 6313), (57, 6331), (58, 6370), (59, 6409), (61, 6511),

Gene: Goodman_10 Start: 8356, Stop: 9096, Start Num: 37

Candidate Starts for Goodman_10:

(12, 8020), (13, 8029), (14, 8035), (15, 8041), (22, 8140), (28, 8245), (33, 8302), (35, 8347), (Start: 37 @8356 has 12 MA's), (Start: 42 @8485 has 2 MA's), (43, 8491), (60, 8995), (61, 9022),

Gene: Htur_9 Start: 8424, Stop: 9035, Start Num: 42

Candidate Starts for Htur_9:

(Start: 37 @8250 has 12 MA's), (38, 8274), (Start: 42 @8424 has 2 MA's), (44, 8439), (46, 8451), (49, 8526), (52, 8634), (60, 8934), (61, 8961),

Gene: Jera_10 Start: 7446, Stop: 8177, Start Num: 37

Candidate Starts for Jera_10:

(Start: 37 @7446 has 12 MA's), (Start: 42 @7566 has 2 MA's), (60, 8076), (61, 8103),

Gene: Johann_10 Start: 8356, Stop: 9096, Start Num: 37

Candidate Starts for Johann_10:

(12, 8020), (13, 8029), (14, 8035), (15, 8041), (22, 8140), (28, 8245), (33, 8302), (35, 8347), (Start: 37 @8356 has 12 MA's), (Start: 42 @8485 has 2 MA's), (43, 8491), (60, 8995), (61, 9022),

Gene: Lesiram_11 Start: 6569, Stop: 7369, Start Num: 30

Candidate Starts for Lesiram_11:

(26, 6512), (27, 6521), (29, 6554), (Start: 30 @6569 has 2 MA's), (Start: 31 @6581 has 1 MA's), (34, 6629), (47, 6830), (51, 6947), (53, 6983), (58, 7157), (59, 7196), (61, 7298),

Gene: Milani_10 Start: 7008, Stop: 7781, Start Num: 37

Candidate Starts for Milani_10:

(16, 6720), (17, 6741), (18, 6744), (19, 6747), (20, 6759), (21, 6780), (23, 6837), (25, 6864), (28, 6897), (32, 6948), (33, 6954), (Start: 37 @7008 has 12 MA's), (38, 7032), (39, 7077), (40, 7149), (Start: 42 @7170 has 2 MA's), (50, 7308), (60, 7680), (61, 7707),

Gene: PermaG_10 Start: 8378, Stop: 9118, Start Num: 37

Candidate Starts for PermaG_10:

(28, 8267), (33, 8324), (35, 8369), (Start: 37 @8378 has 12 MA's), (Start: 42 @8507 has 2 MA's), (45, 8528), (60, 9017), (61, 9044),

Gene: Rasovi_9 Start: 8424, Stop: 9035, Start Num: 42

Candidate Starts for Rasovi_9:

(Start: 37 @8250 has 12 MA's), (38, 8274), (Start: 42 @8424 has 2 MA's), (44, 8439), (46, 8451), (49, 8526), (52, 8634), (60, 8934), (61, 8961),

Gene: SBlackberry_9 Start: 8205, Stop: 8936, Start Num: 37

Candidate Starts for SBlackberry_9:

(Start: 37 @8205 has 12 MA's), (Start: 42 @8325 has 2 MA's), (60, 8835), (61, 8862),

Gene: Sucha_9 Start: 6355, Stop: 7119, Start Num: 37

Candidate Starts for Sucha_9:

(33, 6301), (Start: 37 @6355 has 12 MA's), (38, 6379), (Start: 42 @6508 has 2 MA's), (48, 6592), (50, 6646), (60, 7018), (61, 7045),

Gene: Teng_12 Start: 6653, Stop: 7393, Start Num: 34

Candidate Starts for Teng_12:

(27, 6545), (29, 6578), (Start: 30 @6593 has 2 MA's), (Start: 31 @6605 has 1 MA's), (34, 6653), (47, 6854), (58, 7181), (59, 7220), (61, 7322),

Gene: TurboVicky_9 Start: 8202, Stop: 8933, Start Num: 37

Candidate Starts for TurboVicky_9:

(Start: 37 @8202 has 12 MA's), (Start: 42 @8322 has 2 MA's), (60, 8832), (61, 8859),

Gene: Typher_11 Start: 8332, Stop: 9063, Start Num: 37

Candidate Starts for Typher_11:

(Start: 37 @8332 has 12 MA's), (Start: 42 @8452 has 2 MA's), (60, 8962), (61, 8989),

Gene: Zanella_9 Start: 8202, Stop: 8933, Start Num: 37

Candidate Starts for Zanella_9:

(Start: 37 @8202 has 12 MA's), (Start: 42 @8322 has 2 MA's), (60, 8832), (61, 8859),