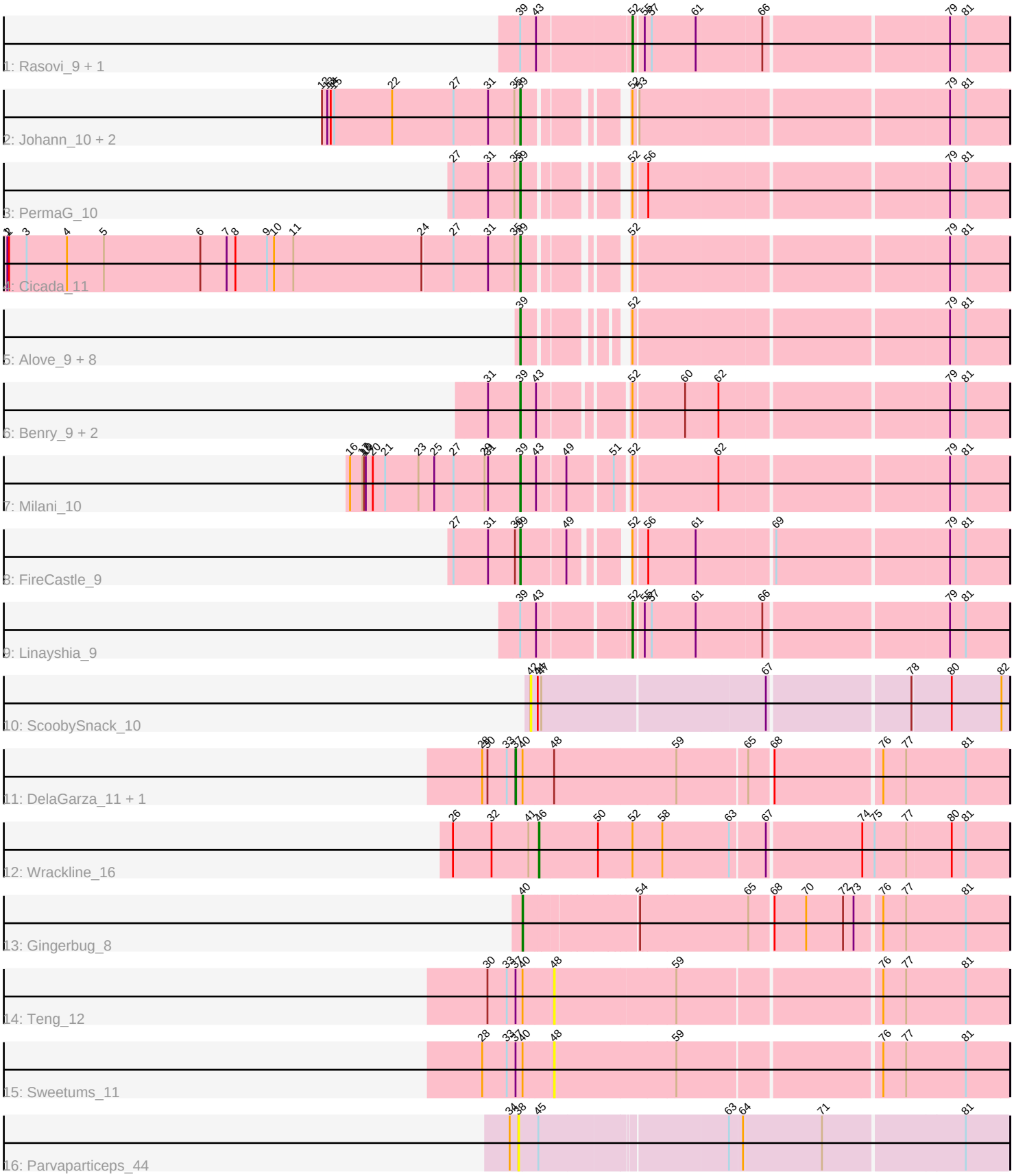
Pham 294977


1: Rasovi_9 + 1
2: Johann_10 + 2
3: PermaG_10
4: Cicada_11
5: Alove_9 + 8
6: Benry_9 + 2
7: Milani_10
8: FireCastle_9
9: Linayshia_9
10: ScoobySnack_10
11: DelaGarza_11 + 1
12: Wrackline_16
13: Gingerbug_8
14: Teng_12
15: Sweetums_11
16: Parvaparticeps_44

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 294977 Report

This analysis was run 04/18/26 on database version 643.

Pham number 294977 has 30 members, 8 are drafts.

Phages represented in each track:
• Track 1 : Rasovi_9, Htur_9
• Track 2 : Johann_10, Olympi_11, Goodman_10
• Track 3 : PermaG_10
• Track 4 : Cicada_11
• Track 5 : Alove_9, AyoTeo_11, Jera_10, Labella_11, Zanella_9, SBlackberry_9, Typher_11, TurboVicky_9, Rootkit7_9
• Track 6 : Benry_9, IndiRoo_9, Sucha_9
• Track 7 : Milani_10
• Track 8 : FireCastle_9
• Track 9 : Linayshia_9
• Track 10 : ScoobySnack_10
• Track 11 : DelaGarza_11, Lesiram_11
• Track 12 : Wrackline_16
• Track 13 : Gingerbug_8
• Track 14 : Teng_12
• Track 15 : Sweetums_11
• Track 16 : Parvaparticeps_44

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

The start number called the most often in the published annotations is 39, it was called in 15 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Alove_9, AyoTeo_11, Benry_9, Cicada_11, FireCastle_9, Goodman_10, IndiRoo_9, Jera_10, Johann_10, Labella_11, Milani_10, Olympi_11, PermaG_10, Rootkit7_9, SBlackberry_9, Sucha_9, TurboVicky_9, Typher_11, Zanella_9,

Genes that have the "Most Annotated" start but do not call it:
• Htur_9, Linayshia_9, Rasovi_9,

Genes that do not have the "Most Annotated" start:
• DelaGarza_11, Gingerbug_8, Lesiram_11, Parvaparticeps_44, ScoobySnack_10, Sweetums_11, Teng_12, Wrackline_16,

Summary by start number:

Start 37:
• Found in 4 of 30 (13.3%) of genes in pham
• Manual Annotations of this start: 2 of 22
• Called 50.0% of time when present
• Phage (with cluster) where this start called: DelaGarza_11 (GF), Lesiram_11 (GF),

Start 38:
• Found in 1 of 30 (3.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Parvaparticeps_44 (UNK),

Start 39:
• Found in 22 of 30 (73.3%) of genes in pham
• Manual Annotations of this start: 15 of 22
• Called 86.4% of time when present
• Phage (with cluster) where this start called: Alove_9 (EJ), AyoTeo_11 (EJ), Benry_9 (EJ), Cicada_11 (EJ), FireCastle_9 (EJ), Goodman_10 (EJ), IndiRoo_9 (EJ), Jera_10 (EJ), Johann_10 (EJ), Labella_11 (EJ), Milani_10 (EJ), Olympi_11 (EJ), PermaG_10 (EJ), Rootkit7_9 (EJ), SBlackberry_9 (EJ), Sucha_9 (EJ), TurboVicky_9 (EJ), Typher_11 (EJ), Zanella_9 (EJ),

Start 40:
• Found in 5 of 30 (16.7%) of genes in pham
• Manual Annotations of this start: 1 of 22
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Gingerbug_8 (GF),

Start 42:
• Found in 1 of 30 (3.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ScoobySnack_10 (GA),

Start 46:
• Found in 1 of 30 (3.3%) of genes in pham
• Manual Annotations of this start: 1 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Wrackline_16 (GF),

Start 48:
• Found in 4 of 30 (13.3%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Sweetums_11 (GF), Teng_12 (GF),

Start 52:
• Found in 23 of 30 (76.7%) of genes in pham
• Manual Annotations of this start: 3 of 22
• Called 13.0% of time when present

• Phage (with cluster) where this start called: Htur_9 (EJ), Linayshia_9 (EJ), Rasovi_9 (EJ),

Summary by clusters:

There are 4 clusters represented in this pham: GF, UNK, GA, EJ,

Info for manual annotations of cluster EJ:
•Start number 39 was manually annotated 15 times for cluster EJ.
•Start number 52 was manually annotated 3 times for cluster EJ.

Info for manual annotations of cluster GF:
•Start number 37 was manually annotated 2 times for cluster GF.
•Start number 40 was manually annotated 1 time for cluster GF.
•Start number 46 was manually annotated 1 time for cluster GF.

Gene Information:

Gene: Alove_9 Start: 8202, Stop: 8933, Start Num: 39
Candidate Starts for Alove_9:
(Start: 39 @8202 has 15 MA's), (Start: 52 @8322 has 3 MA's), (79, 8832), (81, 8859),

Gene: AyoTeo_11 Start: 8329, Stop: 9060, Start Num: 39
Candidate Starts for AyoTeo_11:
(Start: 39 @8329 has 15 MA's), (Start: 52 @8449 has 3 MA's), (79, 8959), (81, 8986),

Gene: Benry_9 Start: 6358, Stop: 7122, Start Num: 39
Candidate Starts for Benry_9:
(31, 6304), (Start: 39 @6358 has 15 MA's), (43, 6382), (Start: 52 @6511 has 3 MA's), (60, 6595), (62, 6649), (79, 7021), (81, 7048),

Gene: Cicada_11 Start: 8447, Stop: 9187, Start Num: 39
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), (27, 8336), (31, 8393), (35, 8438), (Start: 39 @8447 has 15 MA's), (Start: 52 @8576 has 3 MA's), (79, 9086), (81, 9113),

Gene: DelaGarza_11 Start: 6593, Stop: 7396, Start Num: 37
Candidate Starts for DelaGarza_11:
(28, 6536), (30, 6545), (33, 6578), (Start: 37 @6593 has 2 MA's), (Start: 40 @6605 has 1 MA's), (48, 6653), (59, 6857), (65, 6974), (68, 7010), (76, 7184), (77, 7223), (81, 7325),

Gene: FireCastle_9 Start: 8109, Stop: 8858, Start Num: 39
Candidate Starts for FireCastle_9:
(27, 7998), (31, 8055), (36, 8100), (Start: 39 @8109 has 15 MA's), (49, 8175), (Start: 52 @8247 has 3 MA's), (56, 8268), (61, 8349), (69, 8472), (79, 8757), (81, 8784),

Gene: Gingerbug_8 Start: 5806, Stop: 6582, Start Num: 40
Candidate Starts for Gingerbug_8:

(Start: 40 @5806 has 1 MA's), (54, 5980), (65, 6160), (68, 6196), (70, 6250), (72, 6313), (73, 6331), (76, 6370), (77, 6409), (81, 6511),

Gene: Goodman_10 Start: 8356, Stop: 9096, Start Num: 39
Candidate Starts for Goodman_10:
(12, 8020), (13, 8029), (14, 8035), (15, 8041), (22, 8140), (27, 8245), (31, 8302), (35, 8347), (Start: 39 @8356 has 15 MA's), (Start: 52 @8485 has 3 MA's), (53, 8491), (79, 8995), (81, 9022),

Gene: Htur_9 Start: 8424, Stop: 9035, Start Num: 52
Candidate Starts for Htur_9:
(Start: 39 @8250 has 15 MA's), (43, 8274), (Start: 52 @8424 has 3 MA's), (55, 8439), (57, 8451), (61, 8526), (66, 8634), (79, 8934), (81, 8961),

Gene: IndiRoo_9 Start: 6360, Stop: 7124, Start Num: 39
Candidate Starts for IndiRoo_9:
(31, 6306), (Start: 39 @6360 has 15 MA's), (43, 6384), (Start: 52 @6513 has 3 MA's), (60, 6597), (62, 6651), (79, 7023), (81, 7050),

Gene: Jera_10 Start: 7446, Stop: 8177, Start Num: 39
Candidate Starts for Jera_10:
(Start: 39 @7446 has 15 MA's), (Start: 52 @7566 has 3 MA's), (79, 8076), (81, 8103),

Gene: Johann_10 Start: 8356, Stop: 9096, Start Num: 39
Candidate Starts for Johann_10:
(12, 8020), (13, 8029), (14, 8035), (15, 8041), (22, 8140), (27, 8245), (31, 8302), (35, 8347), (Start: 39 @8356 has 15 MA's), (Start: 52 @8485 has 3 MA's), (53, 8491), (79, 8995), (81, 9022),

Gene: Labella_11 Start: 8333, Stop: 9064, Start Num: 39
Candidate Starts for Labella_11:
(Start: 39 @8333 has 15 MA's), (Start: 52 @8453 has 3 MA's), (79, 8963), (81, 8990),

Gene: Lesiram_11 Start: 6569, Stop: 7369, Start Num: 37
Candidate Starts for Lesiram_11:
(28, 6512), (30, 6521), (33, 6554), (Start: 37 @6569 has 2 MA's), (Start: 40 @6581 has 1 MA's), (48, 6629), (59, 6830), (65, 6947), (68, 6983), (76, 7157), (77, 7196), (81, 7298),

Gene: Linayshia_9 Start: 8418, Stop: 9029, Start Num: 52
Candidate Starts for Linayshia_9:
(Start: 39 @8250 has 15 MA's), (43, 8274), (Start: 52 @8418 has 3 MA's), (55, 8433), (57, 8445), (61, 8520), (66, 8628), (79, 8928), (81, 8955),

Gene: Milani_10 Start: 7008, Stop: 7781, Start Num: 39
Candidate Starts for Milani_10:
(16, 6720), (17, 6741), (18, 6744), (19, 6747), (20, 6759), (21, 6780), (23, 6837), (25, 6864), (27, 6897), (29, 6948), (31, 6954), (Start: 39 @7008 has 15 MA's), (43, 7032), (49, 7077), (51, 7149), (Start: 52 @7170 has 3 MA's), (62, 7308), (79, 7680), (81, 7707),

Gene: Olympi_11 Start: 8347, Stop: 9087, Start Num: 39
Candidate Starts for Olympi_11:
(12, 8011), (13, 8020), (14, 8026), (15, 8032), (22, 8131), (27, 8236), (31, 8293), (35, 8338), (Start: 39 @8347 has 15 MA's), (Start: 52 @8476 has 3 MA's), (53, 8482), (79, 8986), (81, 9013),

Gene: Parvaparticeps_44 Start: 31885, Stop: 31091, Start Num: 38

Candidate Starts for Parvaparticeps_44:
(34, 31900), (38, 31885), (45, 31852), (63, 31549), (64, 31528), (71, 31396), (81, 31162),

Gene: PermaG_10 Start: 8378, Stop: 9118, Start Num: 39
Candidate Starts for PermaG_10:
(27, 8267), (31, 8324), (35, 8369), (Start: 39 @8378 has 15 MA's), (Start: 52 @8507 has 3 MA's), (56, 8528), (79, 9017), (81, 9044),

Gene: Rasovi_9 Start: 8424, Stop: 9035, Start Num: 52
Candidate Starts for Rasovi_9:
(Start: 39 @8250 has 15 MA's), (43, 8274), (Start: 52 @8424 has 3 MA's), (55, 8439), (57, 8451), (61, 8526), (66, 8634), (79, 8934), (81, 8961),

Gene: Rootkit7_9 Start: 8202, Stop: 8933, Start Num: 39
Candidate Starts for Rootkit7_9:
(Start: 39 @8202 has 15 MA's), (Start: 52 @8322 has 3 MA's), (79, 8832), (81, 8859),

Gene: SBlackberry_9 Start: 8205, Stop: 8936, Start Num: 39
Candidate Starts for SBlackberry_9:
(Start: 39 @8205 has 15 MA's), (Start: 52 @8325 has 3 MA's), (79, 8835), (81, 8862),

Gene: ScoobySnack_10 Start: 5993, Stop: 6766, Start Num: 42
Candidate Starts for ScoobySnack_10:
(42, 5993), (44, 6005), (47, 6011), (67, 6377), (78, 6608), (80, 6671), (82, 6755),

Gene: Sucha_9 Start: 6355, Stop: 7119, Start Num: 39
Candidate Starts for Sucha_9:
(31, 6301), (Start: 39 @6355 has 15 MA's), (43, 6379), (Start: 52 @6508 has 3 MA's), (60, 6592), (62, 6646), (79, 7018), (81, 7045),

Gene: Sweetums_11 Start: 6724, Stop: 7467, Start Num: 48
Candidate Starts for Sweetums_11:
(28, 6607), (33, 6649), (Start: 37 @6664 has 2 MA's), (Start: 40 @6676 has 1 MA's), (48, 6724), (59, 6928), (76, 7255), (77, 7294), (81, 7396),

Gene: Teng_12 Start: 6653, Stop: 7393, Start Num: 48
Candidate Starts for Teng_12:
(30, 6545), (33, 6578), (Start: 37 @6593 has 2 MA's), (Start: 40 @6605 has 1 MA's), (48, 6653), (59, 6854), (76, 7181), (77, 7220), (81, 7322),

Gene: TurboVicky_9 Start: 8202, Stop: 8933, Start Num: 39
Candidate Starts for TurboVicky_9:
(Start: 39 @8202 has 15 MA's), (Start: 52 @8322 has 3 MA's), (79, 8832), (81, 8859),

Gene: Typher_11 Start: 8332, Stop: 9063, Start Num: 39
Candidate Starts for Typher_11:
(Start: 39 @8332 has 15 MA's), (Start: 52 @8452 has 3 MA's), (79, 8962), (81, 8989),

Gene: Wrackline_16 Start: 7378, Stop: 8154, Start Num: 46
Candidate Starts for Wrackline_16:
(26, 7231), (32, 7297), (41, 7360), (Start: 46 @7378 has 1 MA's), (50, 7477), (Start: 52 @7534 has 3 MA's), (58, 7585), (63, 7696), (67, 7753), (74, 7909), (75, 7930), (77, 7984), (80, 8059), (81, 8083),

Gene: Zanella_9 Start: 8202, Stop: 8933, Start Num: 39
Candidate Starts for Zanella_9:
(Start: 39 @8202 has 15 MA's), (Start: 52 @8322 has 3 MA's), (79, 8832), (81, 8859),