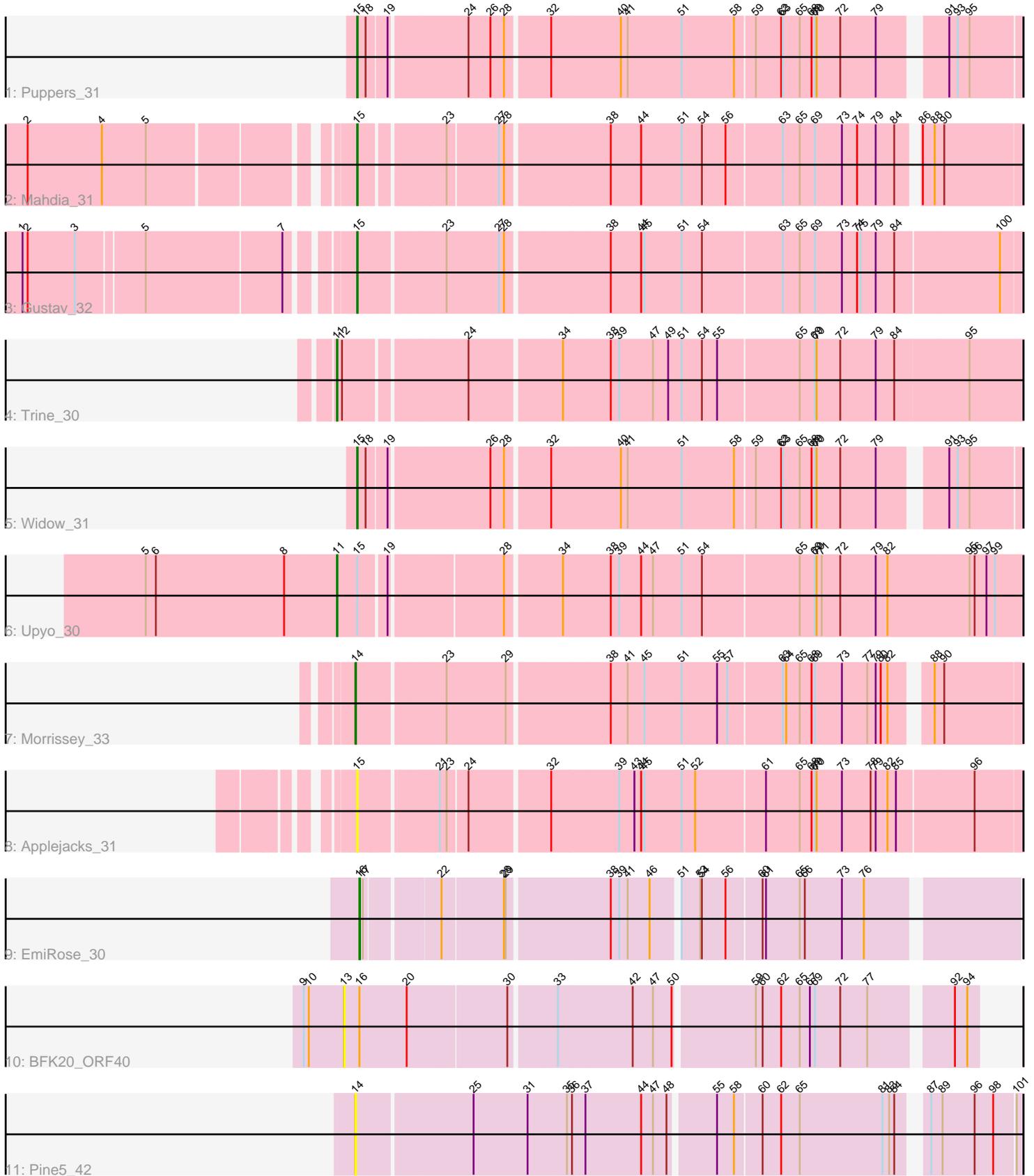


Pham 284393



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 284393 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284393 has 11 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Puppets_31
- Track 2 : Mahdia_31
- Track 3 : Gustav_32
- Track 4 : Trine_30
- Track 5 : Widow_31
- Track 6 : Upyo_30
- Track 7 : Morrissey_33
- Track 8 : Applejacks_31
- Track 9 : EmiRose_30
- Track 10 : BFK20_ORF40
- Track 11 : Pine5_42

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

The start number called the most often in the published annotations is 15, it was called in 4 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Applejacks_31, Gustav_32, Mahdia_31, Puppets_31, Widow_31,

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

- Upyo_30,

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

- BFK20_ORF40, EmiRose_30, Morrissey_33, Pine5_42, Trine_30,

Summary by start number:

Start 11:

- Found in 2 of 11 (18.2%) of genes in pham
- Manual Annotations of this start: 2 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Trine_30 (CD), Upyo_30 (CD),

Start 13:

- Found in 1 of 11 (9.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BFK20_ORF40 (singleton),

Start 14:

- Found in 2 of 11 (18.2%) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Morrissey_33 (CD), Pine5_42 (singleton),

Start 15:

- Found in 6 of 11 (54.5%) of genes in pham
- Manual Annotations of this start: 4 of 8
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Applejacks_31 (CD), Gustav_32 (CD), Mahdia_31 (CD), Poppers_31 (CD), Widow_31 (CD),

Start 16:

- Found in 2 of 11 (18.2%) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 50.0% of time when present
- Phage (with cluster) where this start called: EmiRose_30 (singleton),

Summary by clusters:

There are 2 clusters represented in this pham: singleton, CD,

Info for manual annotations of cluster CD:

- Start number 11 was manually annotated 2 times for cluster CD.
- Start number 14 was manually annotated 1 time for cluster CD.
- Start number 15 was manually annotated 4 times for cluster CD.

Gene Information:

Gene: Applejacks_31 Start: 24445, Stop: 23327, Start Num: 15

Candidate Starts for Applejacks_31:

(Start: 15 @24445 has 4 MA's), (21, 24319), (23, 24307), (24, 24274), (32, 24142), (39, 24025), (43, 23998), (44, 23986), (45, 23980), (51, 23914), (52, 23890), (61, 23770), (65, 23710), (68, 23689), (69, 23683), (70, 23680), (73, 23635), (78, 23584), (79, 23575), (82, 23554), (85, 23539), (96, 23407),

Gene: BFK20_ORF40 Start: 30567, Stop: 29512, Start Num: 13

Candidate Starts for BFK20_ORF40:

(9, 30639), (10, 30630), (13, 30567), (Start: 16 @30540 has 1 MA's), (20, 30456), (30, 30288), (33, 30213), (42, 30084), (47, 30048), (50, 30015), (59, 29880), (60, 29868), (62, 29835), (65, 29802), (67, 29784), (69, 29775), (72, 29730), (77, 29682), (92, 29553), (94, 29532),

Gene: EmiRose_30 Start: 23905, Stop: 22832, Start Num: 16

Candidate Starts for EmiRose_30:

(Start: 16 @23905 has 1 MA's), (17, 23899), (22, 23782), (28, 23677), (29, 23674), (38, 23506), (39, 23491), (41, 23476), (46, 23437), (51, 23395), (53, 23362), (54, 23359), (56, 23317), (60, 23257), (61, 23251), (65, 23191), (66, 23182), (73, 23119), (76, 23080),

Gene: Gustav_32 Start: 25299, Stop: 24172, Start Num: 15

Candidate Starts for Gustav_32:

(1, 25836), (2, 25827), (3, 25743), (5, 25629), (7, 25392), (Start: 15 @25299 has 4 MA's), (23, 25158), (27, 25065), (28, 25056), (38, 24885), (44, 24831), (45, 24825), (51, 24759), (54, 24723), (63, 24585), (65, 24555), (69, 24528), (73, 24480), (74, 24453), (75, 24447), (79, 24420), (84, 24387), (100, 24207),

Gene: Mahdia_31 Start: 24495, Stop: 23398, Start Num: 15

Candidate Starts for Mahdia_31:

(2, 25017), (4, 24885), (5, 24807), (Start: 15 @24495 has 4 MA's), (23, 24360), (27, 24273), (28, 24264), (38, 24093), (44, 24039), (51, 23967), (54, 23931), (56, 23889), (63, 23793), (65, 23763), (69, 23736), (73, 23688), (74, 23661), (79, 23628), (84, 23595), (86, 23568), (88, 23547), (90, 23532),

Gene: Morrissey_33 Start: 26237, Stop: 25131, Start Num: 14

Candidate Starts for Morrissey_33:

(Start: 14 @26237 has 1 MA's), (23, 26090), (29, 25988), (38, 25820), (41, 25790), (45, 25760), (51, 25694), (55, 25631), (57, 25613), (63, 25520), (64, 25514), (65, 25490), (68, 25469), (69, 25463), (73, 25415), (77, 25370), (79, 25355), (80, 25346), (82, 25334), (88, 25280), (90, 25265),

Gene: Pine5_42 Start: 35716, Stop: 34616, Start Num: 14

Candidate Starts for Pine5_42:

(Start: 14 @35716 has 1 MA's), (25, 35521), (31, 35425), (35, 35359), (36, 35350), (37, 35326), (44, 35227), (47, 35206), (48, 35182), (55, 35107), (58, 35077), (60, 35032), (62, 34999), (65, 34966), (81, 34822), (83, 34810), (84, 34801), (87, 34768), (89, 34750), (96, 34693), (98, 34663), (101, 34627),

Gene: Puppies_31 Start: 24982, Stop: 23882, Start Num: 15

Candidate Starts for Puppies_31:

(Start: 15 @24982 has 4 MA's), (18, 24967), (19, 24934), (24, 24805), (26, 24766), (28, 24742), (32, 24670), (40, 24550), (41, 24538), (51, 24442), (58, 24349), (59, 24316), (62, 24271), (63, 24268), (65, 24238), (68, 24217), (69, 24211), (70, 24208), (72, 24166), (79, 24103), (91, 24007), (93, 23992), (95, 23971),

Gene: Trine_30 Start: 24580, Stop: 23426, Start Num: 11

Candidate Starts for Trine_30:

(Start: 11 @24580 has 2 MA's), (12, 24574), (24, 24382), (34, 24229), (38, 24148), (39, 24133), (47, 24073), (49, 24046), (51, 24022), (54, 23986), (55, 23959), (65, 23818), (69, 23791), (70, 23788), (72, 23746), (79, 23683), (84, 23650), (95, 23521),

Gene: Upyo_30 Start: 25191, Stop: 24034, Start Num: 11

Candidate Starts for Upyo_30:

(5, 25530), (6, 25512), (8, 25284), (Start: 11 @25191 has 2 MA's), (Start: 15 @25155 has 4 MA's), (19, 25110), (28, 24924), (34, 24834), (38, 24753), (39, 24738), (44, 24699), (47, 24678), (51, 24627), (54, 24591), (65, 24423), (69, 24396), (70, 24393), (71, 24384), (72, 24351), (79, 24288), (82, 24267), (95, 24123), (96, 24114), (97, 24093), (99, 24078),

Gene: Widow_31 Start: 24786, Stop: 23686, Start Num: 15

Candidate Starts for Widow_31:

(Start: 15 @24786 has 4 MA's), (18, 24771), (19, 24738), (26, 24570), (28, 24546), (32, 24474), (40, 24354), (41, 24342), (51, 24246), (58, 24153), (59, 24120), (62, 24075), (63, 24072), (65, 24042), (68, 24021), (69, 24015), (70, 24012), (72, 23970), (79, 23907), (91, 23811), (93, 23796), (95, 23775),

