

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 284528 Report

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

Pham number 284528 has 7 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Hendrix_158
- Track 2 : Dewdrop_159, Leaf_159
- Track 3 : Rasputia_156
- Track 4 : Stellammi_121
- Track 5 : Gaia_103, Nebkiss_103

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

The start number called the most often in the published annotations is 6, it was called in 3 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Dewdrop_159, Leaf_159, Rasputia_156,

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

-

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

- Gaia_103, Hendrix_158, Nebkiss_103, Stellammi_121,

Summary by start number:

Start 6:

- Found in 3 of 7 (42.9%) of genes in pham
- Manual Annotations of this start: 3 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dewdrop_159 (GC), Leaf_159 (GC), Rasputia_156 (GC),

Start 8:

- Found in 2 of 7 (28.6%) of genes in pham
- Manual Annotations of this start: 2 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gaia_103 (X), Nebkiss_103 (X),

Start 9:

- Found in 3 of 7 (42.9%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Stellammi_121 (UNK),

Start 15:

- Found in 1 of 7 (14.3%) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hendrix_158 (GC),

Summary by clusters:

There are 3 clusters represented in this pham: X, UNK, GC,

Info for manual annotations of cluster GC:

- Start number 6 was manually annotated 3 times for cluster GC.
- Start number 15 was manually annotated 1 time for cluster GC.

Info for manual annotations of cluster X:

- Start number 8 was manually annotated 2 times for cluster X.

Gene Information:

Gene: Dewdrop_159 Start: 93986, Stop: 95401, Start Num: 6

Candidate Starts for Dewdrop_159:

(Start: 6 @93986 has 3 MA's), (7, 93995), (10, 94046), (12, 94106), (29, 94250), (31, 94262), (34, 94292), (36, 94331), (40, 94367), (41, 94385), (50, 94565), (52, 94598), (62, 94709), (63, 94745), (65, 94754), (74, 94832), (79, 94919), (84, 94949), (85, 94982), (91, 95036), (95, 95117), (103, 95231), (106, 95246), (109, 95273), (110, 95312), (113, 95390), (114, 95396),

Gene: Gaia_103 Start: 59268, Stop: 60608, Start Num: 8

Candidate Starts for Gaia_103:

(Start: 8 @59268 has 2 MA's), (9, 59280), (20, 59427), (23, 59436), (27, 59478), (28, 59502), (29, 59517), (30, 59526), (31, 59529), (36, 59595), (37, 59610), (44, 59661), (46, 59724), (49, 59790), (51, 59838), (53, 59856), (58, 59907), (67, 60024), (68, 60030), (71, 60045), (74, 60072), (75, 60081), (76, 60096), (80, 60159), (86, 60222), (89, 60243), (98, 60393), (99, 60402), (100, 60405), (101, 60429), (104, 60456),

Gene: Hendrix_158 Start: 96461, Stop: 97753, Start Num: 15

Candidate Starts for Hendrix_158:

(14, 96452), (Start: 15 @96461 has 1 MA's), (22, 96497), (28, 96587), (29, 96602), (31, 96614), (32, 96620), (39, 96716), (45, 96767), (48, 96878), (50, 96923), (52, 96956), (55, 96986), (62, 97067), (63, 97103), (70, 97157), (73, 97187), (74, 97190), (77, 97223), (79, 97277), (83, 97301), (84, 97307), (87, 97358), (91, 97394), (92, 97412), (94, 97436), (102, 97580), (103, 97592), (107, 97619), (108, 97631),

Gene: Leaf_159 Start: 93917, Stop: 95332, Start Num: 6

Candidate Starts for Leaf_159:

(Start: 6 @93917 has 3 MA's), (7, 93926), (10, 93977), (12, 94037), (29, 94181), (31, 94193), (34, 94223), (36, 94262), (40, 94298), (41, 94316), (50, 94496), (52, 94529), (62, 94640), (63, 94676), (65, 94685), (74, 94763), (79, 94850), (84, 94880), (85, 94913), (91, 94967), (95, 95048), (103, 95162), (106, 95177), (109, 95204), (110, 95243), (113, 95321), (114, 95327),

Gene: Nebkiss_103 Start: 58194, Stop: 59534, Start Num: 8

Candidate Starts for Nebkiss_103:

(Start: 8 @58194 has 2 MA's), (9, 58206), (20, 58353), (23, 58362), (27, 58404), (28, 58428), (29, 58443), (30, 58452), (31, 58455), (36, 58521), (37, 58536), (44, 58587), (46, 58650), (49, 58716), (51, 58764), (53, 58782), (58, 58833), (67, 58950), (68, 58956), (71, 58971), (74, 58998), (75, 59007), (76, 59022), (80, 59085), (86, 59148), (89, 59169), (98, 59319), (99, 59328), (100, 59331), (101, 59355), (104, 59382),

Gene: Rasputia_156 Start: 95687, Stop: 97096, Start Num: 6

Candidate Starts for Rasputia_156:

(1, 95201), (2, 95411), (3, 95423), (4, 95519), (5, 95597), (Start: 6 @95687 has 3 MA's), (7, 95696), (21, 95855), (28, 95930), (31, 95957), (36, 96026), (38, 96056), (40, 96062), (41, 96080), (47, 96209), (50, 96260), (52, 96293), (55, 96323), (59, 96368), (60, 96374), (61, 96389), (62, 96404), (63, 96440), (74, 96527), (79, 96614), (82, 96629), (84, 96644), (85, 96677), (91, 96731), (95, 96812), (103, 96926), (106, 96941), (109, 96968), (110, 97007), (112, 97079), (113, 97085),

Gene: Stellammi_121 Start: 55638, Stop: 56909, Start Num: 9

Candidate Starts for Stellammi_121:

(9, 55638), (11, 55674), (13, 55731), (16, 55761), (17, 55764), (18, 55767), (19, 55776), (24, 55809), (25, 55815), (26, 55818), (27, 55824), (29, 55863), (30, 55872), (33, 55893), (35, 55923), (36, 55941), (42, 55992), (43, 55998), (45, 56016), (46, 56064), (53, 56196), (54, 56199), (56, 56229), (57, 56238), (64, 56337), (66, 56352), (69, 56373), (72, 56409), (78, 56463), (81, 56511), (88, 56586), (90, 56613), (92, 56634), (93, 56646), (96, 56727), (97, 56736), (105, 56811), (106, 56817), (107, 56826), (111, 56877),