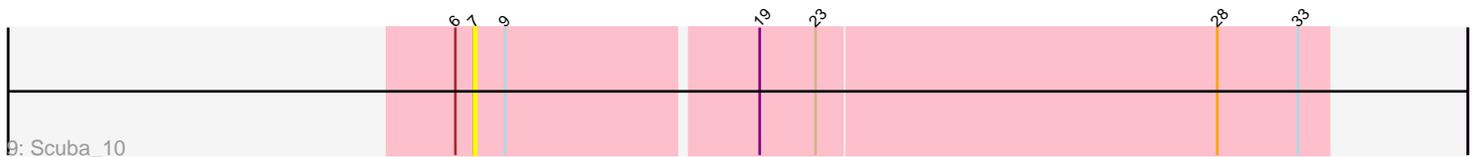
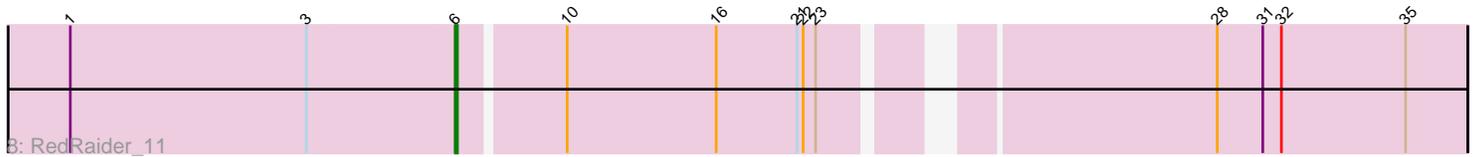
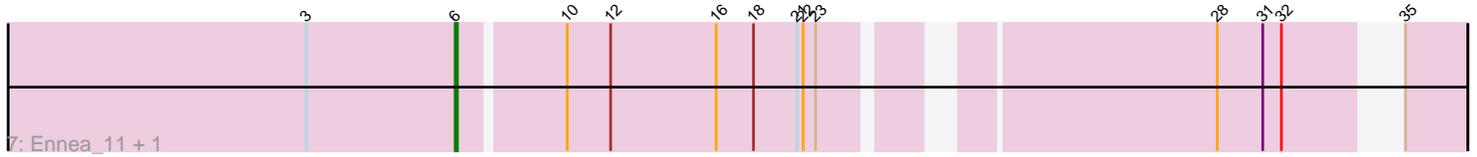
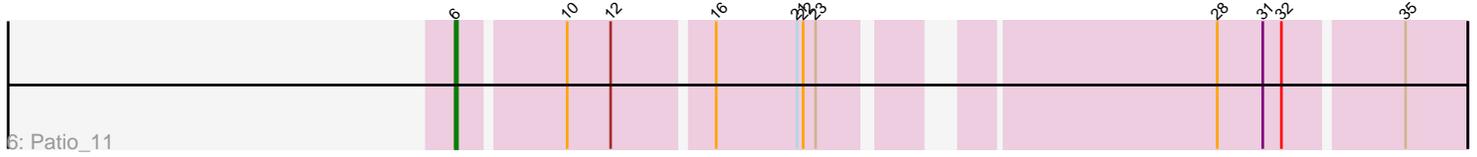
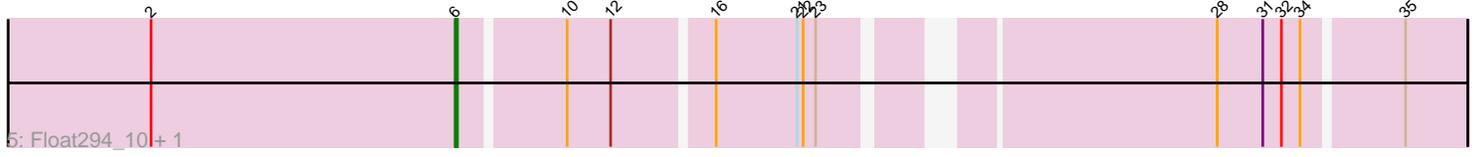
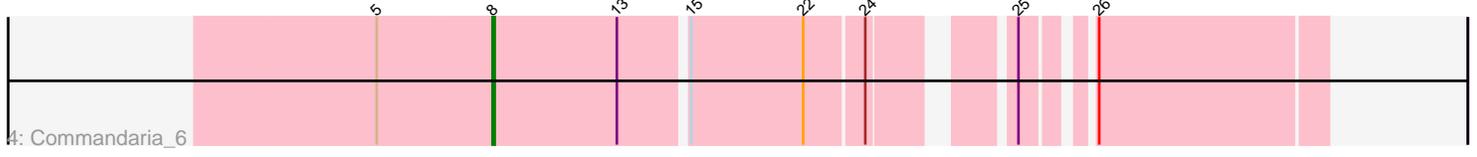
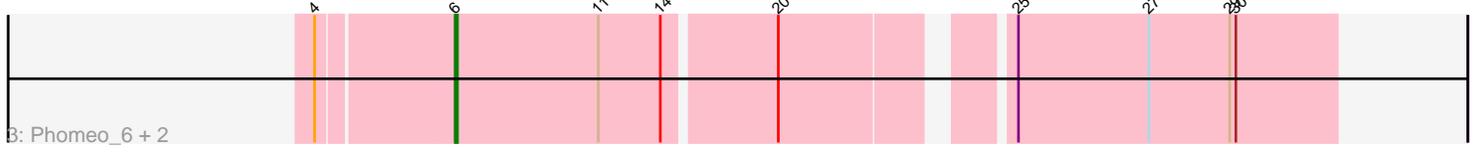
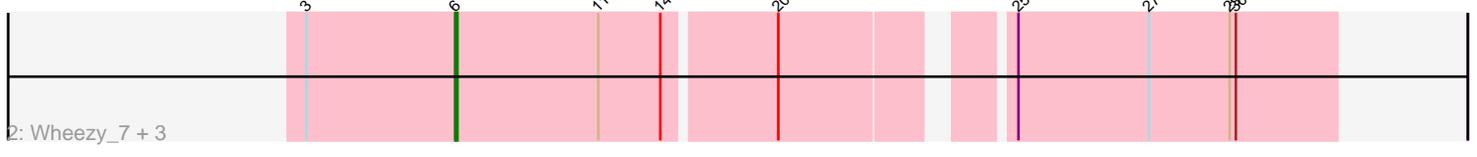
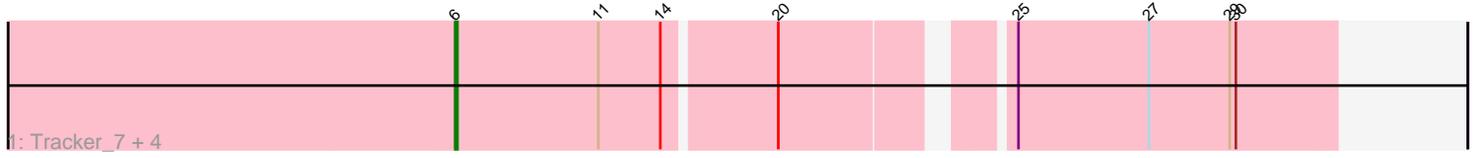


Pham 285905



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 285905 Report

This analysis was run 03/28/26 on database version 641.

Pham number 285905 has 22 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Tracker_7, Kurt_7, Foxboro_7, KidneyBean_7, Emianna_7
- Track 2 : Wheezy_7, GrootJr_9, Arti_7, NovumRegina_7
- Track 3 : Phomeo_6, NatB6_7, Jifall16_6
- Track 4 : Commandaria_6
- Track 5 : Float294_10, Skysand_10
- Track 6 : Patio_11
- Track 7 : Ennea_11, Lollipop1437_10
- Track 8 : RedRaider_11
- Track 9 : Scuba_10
- Track 10 : Fury_10, Pleakley_10

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 18 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arti_7, Emianna_7, Ennea_11, Float294_10, Foxboro_7, GrootJr_9, Jifall16_6, KidneyBean_7, Kurt_7, Lollipop1437_10, NatB6_7, NovumRegina_7, Patio_11, Phomeo_6, RedRaider_11, Skysand_10, Tracker_7, Wheezy_7,

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

- Scuba_10,

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

- Commandaria_6, Fury_10, Pleakley_10,

Summary by start number:

Start 6:

- Found in 19 of 22 (86.4%) of genes in pham
- Manual Annotations of this start: 18 of 21
- Called 94.7% of time when present

- Phage (with cluster) where this start called: Arti_7 (CR2), Emianna_7 (CR2), Ennea_11 (CR3), Float294_10 (CR3), Foxboro_7 (CR2), GrootJr_9 (CR2), Jifall16_6 (CR2), KidneyBean_7 (CR2), Kurt_7 (CR2), Lollipop1437_10 (CR3), NatB6_7 (CR2), NovumRegina_7 (CR2), Patio_11 (CR3), Phomeo_6 (CR2), RedRaider_11 (CR3), Skysand_10 (CR3), Tracker_7 (CR2), Wheezy_7 (CR2),

Start 7:

- Found in 3 of 22 (13.6%) of genes in pham
- Manual Annotations of this start: 2 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fury_10 (CR5), Pleakley_10 (CR5), Scuba_10 (CR5),

Start 8:

- Found in 1 of 22 (4.5%) of genes in pham
- Manual Annotations of this start: 1 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Commandaria_6 (CR2),

Summary by clusters:

There are 3 clusters represented in this pham: CR2, CR3, CR5,

Info for manual annotations of cluster CR2:

- Start number 6 was manually annotated 12 times for cluster CR2.
- Start number 8 was manually annotated 1 time for cluster CR2.

Info for manual annotations of cluster CR3:

- Start number 6 was manually annotated 6 times for cluster CR3.

Info for manual annotations of cluster CR5:

- Start number 7 was manually annotated 2 times for cluster CR5.

Gene Information:

Gene: Arti_7 Start: 5140, Stop: 5535, Start Num: 6

Candidate Starts for Arti_7:

(3, 5071), (Start: 6 @5140 has 18 MA's), (11, 5209), (14, 5239), (20, 5290), (25, 5383), (27, 5446), (29, 5485), (30, 5488),

Gene: Commandaria_6 Start: 4204, Stop: 4557, Start Num: 8

Candidate Starts for Commandaria_6:

(5, 4150), (Start: 8 @4204 has 1 MA's), (13, 4264), (15, 4294), (22, 4348), (24, 4375), (25, 4426), (26, 4450),

Gene: Emianna_7 Start: 5108, Stop: 5503, Start Num: 6

Candidate Starts for Emianna_7:

(Start: 6 @5108 has 18 MA's), (11, 5177), (14, 5207), (20, 5258), (25, 5351), (27, 5414), (29, 5453), (30, 5456),

Gene: Ennea_11 Start: 6085, Stop: 6513, Start Num: 6

Candidate Starts for Ennea_11:

(3, 6016), (Start: 6 @6085 has 18 MA's), (10, 6133), (12, 6154), (16, 6205), (18, 6223), (21, 6244), (22, 6247), (23, 6253), (28, 6418), (31, 6439), (32, 6448), (35, 6484),

Gene: Float294_10 Start: 5905, Stop: 6345, Start Num: 6

Candidate Starts for Float294_10:

(2, 5761), (Start: 6 @5905 has 18 MA's), (10, 5953), (12, 5974), (16, 6019), (21, 6058), (22, 6061), (23, 6067), (28, 6232), (31, 6253), (32, 6262), (34, 6271), (35, 6316),

Gene: Foxboro_7 Start: 5119, Stop: 5514, Start Num: 6

Candidate Starts for Foxboro_7:

(Start: 6 @5119 has 18 MA's), (11, 5188), (14, 5218), (20, 5269), (25, 5362), (27, 5425), (29, 5464), (30, 5467),

Gene: Fury_10 Start: 4783, Stop: 5187, Start Num: 7

Candidate Starts for Fury_10:

(Start: 7 @4783 has 2 MA's), (17, 4903), (23, 4942), (28, 5134), (33, 5173),

Gene: GrootJr_9 Start: 5535, Stop: 5930, Start Num: 6

Candidate Starts for GrootJr_9:

(3, 5466), (Start: 6 @5535 has 18 MA's), (11, 5604), (14, 5634), (20, 5685), (25, 5778), (27, 5841), (29, 5880), (30, 5883),

Gene: Jifall16_6 Start: 4580, Stop: 4975, Start Num: 6

Candidate Starts for Jifall16_6:

(4, 4520), (Start: 6 @4580 has 18 MA's), (11, 4649), (14, 4679), (20, 4730), (25, 4823), (27, 4886), (29, 4925), (30, 4928),

Gene: KidneyBean_7 Start: 4925, Stop: 5320, Start Num: 6

Candidate Starts for KidneyBean_7:

(Start: 6 @4925 has 18 MA's), (11, 4994), (14, 5024), (20, 5075), (25, 5168), (27, 5231), (29, 5270), (30, 5273),

Gene: Kurt_7 Start: 5108, Stop: 5503, Start Num: 6

Candidate Starts for Kurt_7:

(Start: 6 @5108 has 18 MA's), (11, 5177), (14, 5207), (20, 5258), (25, 5351), (27, 5414), (29, 5453), (30, 5456),

Gene: Lollipop1437_10 Start: 6073, Stop: 6501, Start Num: 6

Candidate Starts for Lollipop1437_10:

(3, 6004), (Start: 6 @6073 has 18 MA's), (10, 6121), (12, 6142), (16, 6193), (18, 6211), (21, 6232), (22, 6235), (23, 6241), (28, 6406), (31, 6427), (32, 6436), (35, 6472),

Gene: NatB6_7 Start: 5187, Stop: 5582, Start Num: 6

Candidate Starts for NatB6_7:

(4, 5127), (Start: 6 @5187 has 18 MA's), (11, 5256), (14, 5286), (20, 5337), (25, 5430), (27, 5493), (29, 5532), (30, 5535),

Gene: NovumRegina_7 Start: 5534, Stop: 5929, Start Num: 6

Candidate Starts for NovumRegina_7:

(3, 5465), (Start: 6 @5534 has 18 MA's), (11, 5603), (14, 5633), (20, 5684), (25, 5777), (27, 5840), (29, 5879), (30, 5882),

Gene: Patio_11 Start: 6581, Stop: 7021, Start Num: 6

Candidate Starts for Patio_11:

(Start: 6 @6581 has 18 MA's), (10, 6629), (12, 6650), (16, 6695), (21, 6734), (22, 6737), (23, 6743), (28, 6908), (31, 6929), (32, 6938), (35, 6992),

Gene: Phomeo_6 Start: 4761, Stop: 5156, Start Num: 6

Candidate Starts for Phomeo_6:

(4, 4701), (Start: 6 @4761 has 18 MA's), (11, 4830), (14, 4860), (20, 4911), (25, 5004), (27, 5067), (29, 5106), (30, 5109),

Gene: Pleakley_10 Start: 4783, Stop: 5187, Start Num: 7

Candidate Starts for Pleakley_10:

(Start: 7 @4783 has 2 MA's), (17, 4903), (23, 4942), (28, 5134), (33, 5173),

Gene: RedRaider_11 Start: 5995, Stop: 6447, Start Num: 6

Candidate Starts for RedRaider_11:

(1, 5812), (3, 5926), (Start: 6 @5995 has 18 MA's), (10, 6043), (16, 6115), (21, 6154), (22, 6157), (23, 6163), (28, 6328), (31, 6349), (32, 6358), (35, 6418),

Gene: Scuba_10 Start: 4881, Stop: 5285, Start Num: 7

Candidate Starts for Scuba_10:

(Start: 6 @4872 has 18 MA's), (Start: 7 @4881 has 2 MA's), (9, 4896), (19, 5013), (23, 5040), (28, 5232), (33, 5271),

Gene: Skysand_10 Start: 5907, Stop: 6347, Start Num: 6

Candidate Starts for Skysand_10:

(2, 5763), (Start: 6 @5907 has 18 MA's), (10, 5955), (12, 5976), (16, 6021), (21, 6060), (22, 6063), (23, 6069), (28, 6234), (31, 6255), (32, 6264), (34, 6273), (35, 6318),

Gene: Tracker_7 Start: 4900, Stop: 5295, Start Num: 6

Candidate Starts for Tracker_7:

(Start: 6 @4900 has 18 MA's), (11, 4969), (14, 4999), (20, 5050), (25, 5143), (27, 5206), (29, 5245), (30, 5248),

Gene: Wheezy_7 Start: 5152, Stop: 5547, Start Num: 6

Candidate Starts for Wheezy_7:

(3, 5083), (Start: 6 @5152 has 18 MA's), (11, 5221), (14, 5251), (20, 5302), (25, 5395), (27, 5458), (29, 5497), (30, 5500),