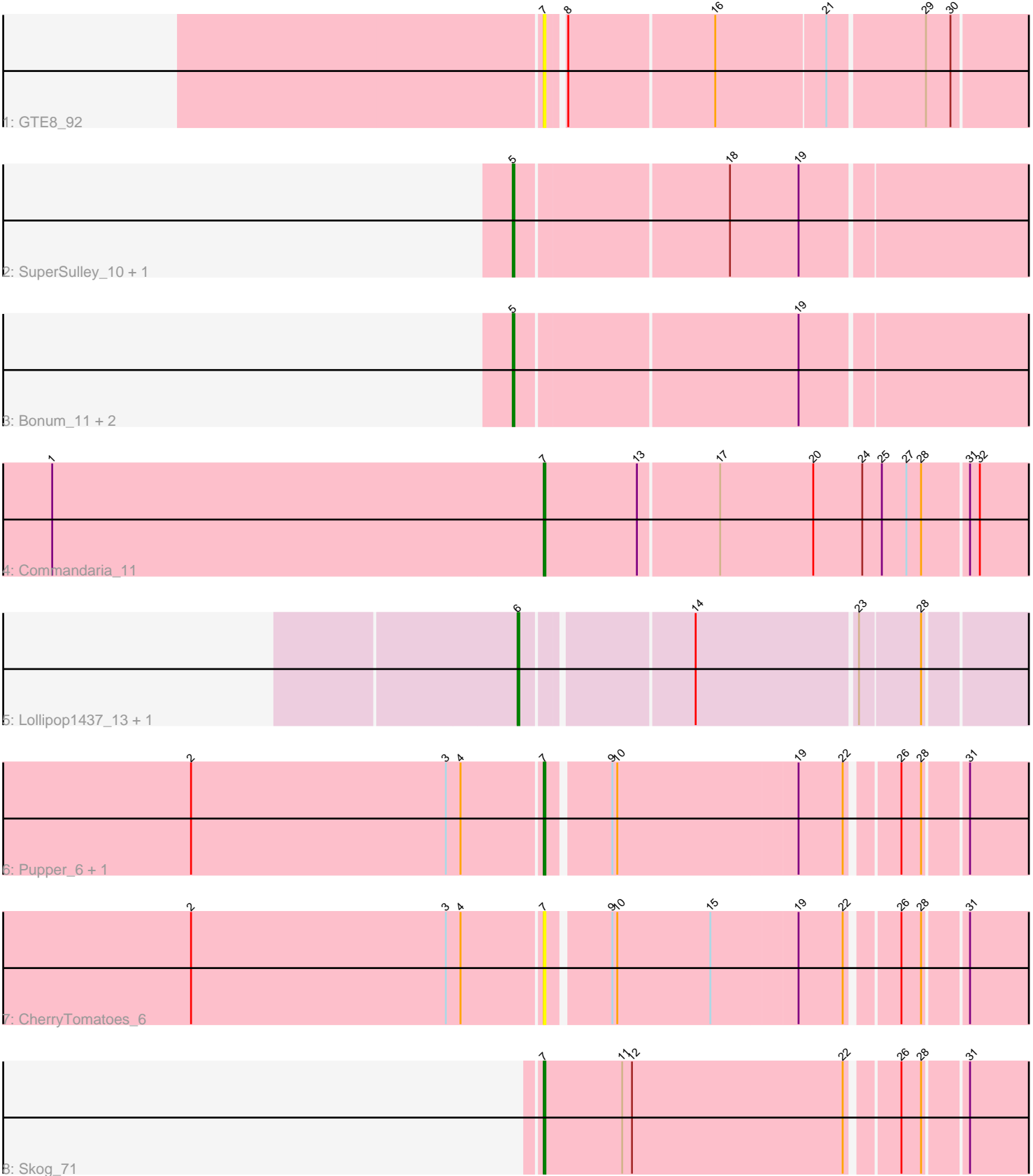# Pham 5016

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 5016 Report

This analysis was run 04/05/24 on database version 557.

Pham number 5016 has 13 members, 2 are drafts.

Phages represented in each track:
• Track 1 : GTE8_92
• Track 2 : SuperSulley_10, Buggaboo_10
• Track 3 : Bonum_11, Kabluna_11, NosilaM_11
• Track 4 : Commandaria_11
• Track 5 : Lollipop1437_13, Ennea_14
• Track 6 : Pupper_6, SCentae_6
• Track 7 : CherryTomatoes_6
• Track 8 : Skog_71

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

The start number called the most often in the published annotations is 5, it was called in 5 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bonum_11, Buggaboo_10, Kabluna_11, NosilaM_11, SuperSulley_10,

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

Genes that do not have the "Most Annotated" start:
• CherryTomatoes_6, Commandaria_11, Ennea_14, GTE8_92, Lollipop1437_13, Pupper_6, SCentae_6, Skog_71,

Summary by start number:

Start 5:
• Found in 5 of 13 (38.5%) of genes in pham
• Manual Annotations of this start: 5 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bonum_11 (CR2), Buggaboo_10 (CR2), Kabluna_11 (CR2), NosilaM_11 (CR2), SuperSulley_10 (CR2),

Start 6:

• Found in 2 of 13 (15.4%) of genes in pham
• Manual Annotations of this start: 2 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ennea_14 (CR3), Lollipop1437_13 (CR3),

Start 7:
• Found in 6 of 13 (46.2%) of genes in pham
• Manual Annotations of this start: 4 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CherryTomatoes_6 (DO), Commandaria_11 (CR2), GTE8_92 (CR2), Pupper_6 (DO), SCentae_6 (DO), Skog_71 (DO),

Summary by clusters:

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

Info for manual annotations of cluster CR2:
•Start number 5 was manually annotated 5 times for cluster CR2.
•Start number 7 was manually annotated 1 time for cluster CR2.

Info for manual annotations of cluster CR3:
•Start number 6 was manually annotated 2 times for cluster CR3.

Info for manual annotations of cluster DO:
•Start number 7 was manually annotated 3 times for cluster DO.

Gene Information:
Gene: Bonum_11 Start: 6220, Stop: 6561, Start Num: 5
Candidate Starts for Bonum_11:
(Start: 5 @6220 has 5 MA's), (19, 6388),

Gene: Buggaboo_10 Start: 5739, Stop: 6080, Start Num: 5
Candidate Starts for Buggaboo_10:
(Start: 5 @5739 has 5 MA's), (18, 5865), (19, 5907),

Gene: CherryTomatoes_6 Start: 2138, Stop: 2419, Start Num: 7
Candidate Starts for CherryTomatoes_6:
(2, 1925), (3, 2081), (4, 2090), (Start: 7 @2138 has 4 MA's), (9, 2174), (10, 2177), (15, 2234), (19, 2285), (22, 2312), (26, 2339), (28, 2351), (31, 2375),

Gene: Commandaria_11 Start: 6077, Stop: 6382, Start Num: 7
Candidate Starts for Commandaria_11:
(1, 5777), (Start: 7 @6077 has 4 MA's), (13, 6134), (17, 6182), (20, 6239), (24, 6269), (25, 6281), (27, 6296), (28, 6305), (31, 6332), (32, 6338),

Gene: Ennea_14 Start: 7446, Stop: 7763, Start Num: 6
Candidate Starts for Ennea_14:
(Start: 6 @7446 has 2 MA's), (14, 7542), (23, 7638), (28, 7674),

Gene: GTE8_92 Start: 66639, Stop: 66941, Start Num: 7
Candidate Starts for GTE8_92:
(Start: 7 @66639 has 4 MA's), (8, 66648), (16, 66735), (21, 66801), (29, 66858), (30, 66873),

Gene: Kabluna_11 Start: 5611, Stop: 5952, Start Num: 5
Candidate Starts for Kabluna_11:
(Start: 5 @5611 has 5 MA's), (19, 5779),

Gene: Lollipop1437_13 Start: 7434, Stop: 7751, Start Num: 6
Candidate Starts for Lollipop1437_13:
(Start: 6 @7434 has 2 MA's), (14, 7530), (23, 7626), (28, 7662),

Gene: NosilaM_11 Start: 6499, Stop: 6840, Start Num: 5
Candidate Starts for NosilaM_11:
(Start: 5 @6499 has 5 MA's), (19, 6667),

Gene: Pupper_6 Start: 2118, Stop: 2399, Start Num: 7
Candidate Starts for Pupper_6:
(2, 1905), (3, 2061), (4, 2070), (Start: 7 @2118 has 4 MA's), (9, 2154), (10, 2157), (19, 2265), (22, 2292), (26, 2319), (28, 2331), (31, 2355),

Gene: SCentae_6 Start: 2118, Stop: 2399, Start Num: 7
Candidate Starts for SCentae_6:
(2, 1905), (3, 2061), (4, 2070), (Start: 7 @2118 has 4 MA's), (9, 2154), (10, 2157), (19, 2265), (22, 2292), (26, 2319), (28, 2331), (31, 2355),

Gene: Skog_71 Start: 29258, Stop: 29548, Start Num: 7
Candidate Starts for Skog_71:
(Start: 7 @29258 has 4 MA's), (11, 29306), (12, 29312), (22, 29441), (26, 29468), (28, 29480), (31, 29504),

Gene: SuperSulley_10 Start: 5739, Stop: 6080, Start Num: 5
Candidate Starts for SuperSulley_10:
(Start: 5 @5739 has 5 MA's), (18, 5865), (19, 5907),