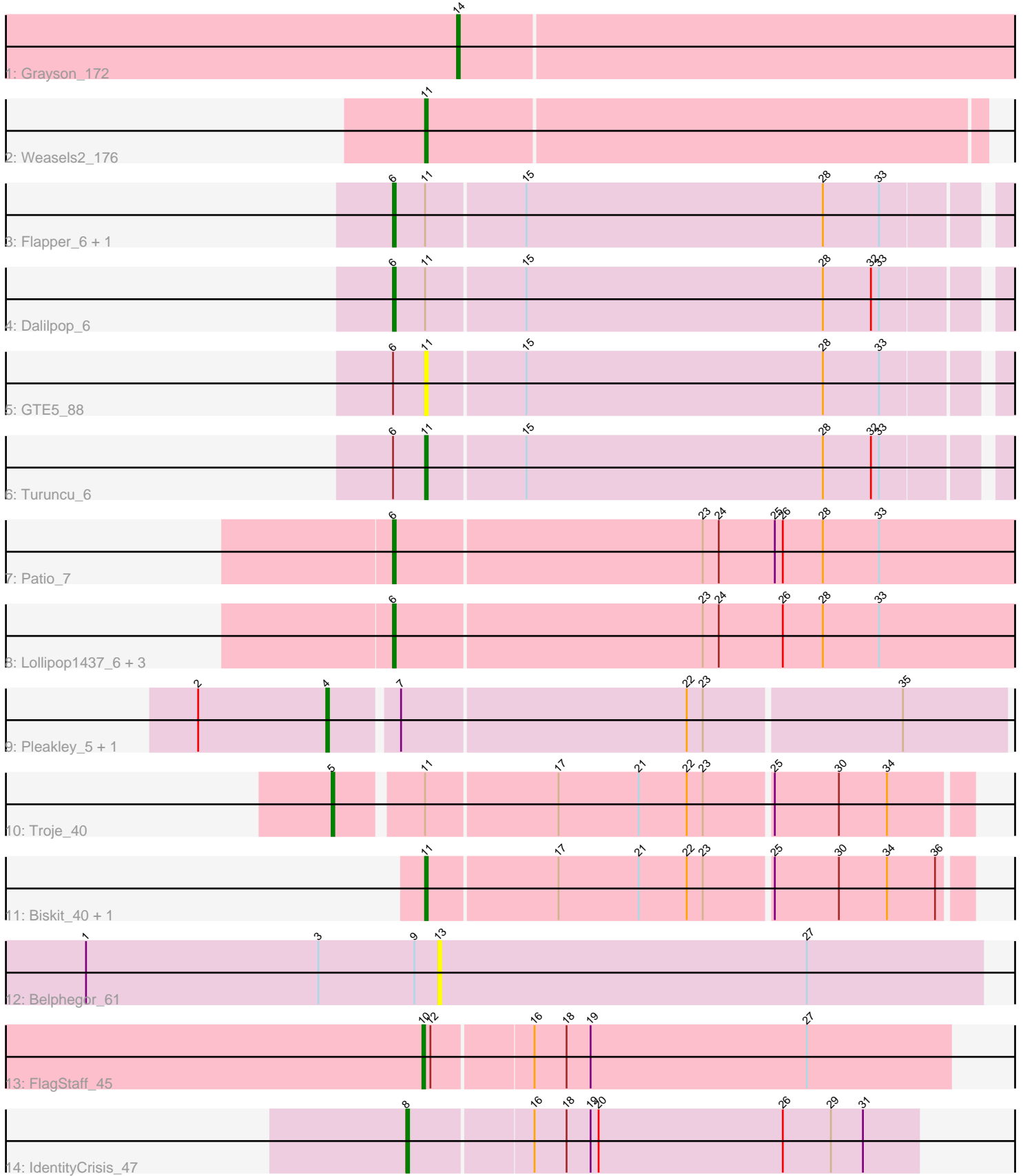# Pham 171787

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 171787 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171787 has 20 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Grayson_172
• Track 2 : Weasels2_176
• Track 3 : Flapper_6, GRU1_89
• Track 4 : Dalilpop_6
• Track 5 : GTE5_88
• Track 6 : Turuncu_6
• Track 7 : Patio_7
• Track 8 : Lollipop1437_6, Ennea_6, Float294_6, Skysand_6
• Track 9 : Pleakley_5, Fury_5
• Track 10 : Troje_40
• Track 11 : Biskit_40, SketchMex_38
• Track 12 : Belphegor_61
• Track 13 : FlagStaff_45
• Track 14 : IdentityCrisis_47

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 7 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Dalilpop_6, Ennea_6, Flapper_6, Float294_6, GRU1_89, Lollipop1437_6, Patio_7, Skysand_6,

Genes that have the "Most Annotated" start but do not call it:
• GTE5_88, Turuncu_6,

Genes that do not have the "Most Annotated" start:
• Belphegor_61, Biskit_40, FlagStaff_45, Fury_5, Grayson_172, IdentityCrisis_47, Pleakley_5, SketchMex_38, Troje_40, Weasels2_176,

Summary by start number:

Start 4:

• Found in 2 of 20 (10.0%) of genes in pham
• Manual Annotations of this start: 2 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Fury_5 (CR5), Pleakley_5 (CR5),

Start 5:
• Found in 1 of 20 (5.0%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Troje_40 (CT),

Start 6:
• Found in 10 of 20 (50.0%) of genes in pham
• Manual Annotations of this start: 7 of 17
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Dalilpop_6 (CR1), Ennea_6 (CR3), Flapper_6 (CR1), Float294_6 (CR3), GRU1_89 (CR1), Lollipop1437_6 (CR3), Patio_7 (CR3), Skysand_6 (CR3),

Start 8:
• Found in 1 of 20 (5.0%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: IdentityCrisis_47 (singleton),

Start 10:
• Found in 1 of 20 (5.0%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: FlagStaff_45 (G2),

Start 11:
• Found in 9 of 20 (45.0%) of genes in pham
• Manual Annotations of this start: 4 of 17
• Called 55.6% of time when present
• Phage (with cluster) where this start called: Biskit_40 (CT), GTE5_88 (CR1), SketchMex_38 (CT), Turuncu_6 (CR1), Weasels2_176 (CB),

Start 13:
• Found in 1 of 20 (5.0%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Belphegor_61 (DE),

Start 14:
• Found in 1 of 20 (5.0%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Grayson_172 (CB),

Summary by clusters:

There are 8 clusters represented in this pham: CR3, singleton, CR1, G2, CR5, CB, DE, CT,

Info for manual annotations of cluster CB:
•Start number 11 was manually annotated 1 time for cluster CB.
•Start number 14 was manually annotated 1 time for cluster CB.

Info for manual annotations of cluster CR1:
•Start number 6 was manually annotated 2 times for cluster CR1.
•Start number 11 was manually annotated 1 time for cluster CR1.

Info for manual annotations of cluster CR3:
•Start number 6 was manually annotated 5 times for cluster CR3.

Info for manual annotations of cluster CR5:
•Start number 4 was manually annotated 2 times for cluster CR5.

Info for manual annotations of cluster CT:
•Start number 5 was manually annotated 1 time for cluster CT.
•Start number 11 was manually annotated 2 times for cluster CT.

Info for manual annotations of cluster G2:
•Start number 10 was manually annotated 1 time for cluster G2.

Gene Information:

Gene: Belphegor_61 Start: 49602, Stop: 49805, Start Num: 13
Candidate Starts for Belphegor_61:
(1, 49470), (3, 49557), (9, 49593), (13, 49602), (27, 49740),

Gene: Biskit_40 Start: 27315, Stop: 27118, Start Num: 11
Candidate Starts for Biskit_40:
(Start: 11 @27315 has 4 MA's), (17, 27267), (21, 27237), (22, 27219), (23, 27213), (25, 27189), (30, 27165), (34, 27147), (36, 27129),

Gene: Dalilpop_6 Start: 4569, Stop: 4790, Start Num: 6
Candidate Starts for Dalilpop_6:
(Start: 6 @4569 has 7 MA's), (Start: 11 @4581 has 4 MA's), (15, 4617), (28, 4728), (32, 4746), (33, 4749),

Gene: Ennea_6 Start: 4376, Stop: 4606, Start Num: 6
Candidate Starts for Ennea_6:
(Start: 6 @4376 has 7 MA's), (23, 4490), (24, 4496), (26, 4520), (28, 4535), (33, 4556),

Gene: FlagStaff_45 Start: 36055, Stop: 36249, Start Num: 10
Candidate Starts for FlagStaff_45:
(Start: 10 @36055 has 1 MA's), (12, 36058), (16, 36094), (18, 36106), (19, 36115), (27, 36196),

Gene: Flapper_6 Start: 3864, Stop: 4085, Start Num: 6
Candidate Starts for Flapper_6:

(Start: 6 @3864 has 7 MA's), (Start: 11 @3876 has 4 MA's), (15, 3912), (28, 4023), (33, 4044),

Gene: Float294_6 Start: 4362, Stop: 4592, Start Num: 6
Candidate Starts for Float294_6:
(Start: 6 @4362 has 7 MA's), (23, 4476), (24, 4482), (26, 4506), (28, 4521), (33, 4542),

Gene: Fury_5 Start: 2948, Stop: 3193, Start Num: 4
Candidate Starts for Fury_5:
(2, 2900), (Start: 4 @2948 has 2 MA's), (7, 2972), (22, 3077), (23, 3083), (35, 3155),

Gene: GRU1_89 Start: 62882, Stop: 63103, Start Num: 6
Candidate Starts for GRU1_89:
(Start: 6 @62882 has 7 MA's), (Start: 11 @62894 has 4 MA's), (15, 62930), (28, 63041), (33, 63062),

Gene: GTE5_88 Start: 63789, Stop: 63998, Start Num: 11
Candidate Starts for GTE5_88:
(Start: 6 @63777 has 7 MA's), (Start: 11 @63789 has 4 MA's), (15, 63825), (28, 63936), (33, 63957),

Gene: Grayson_172 Start: 92452, Stop: 92664, Start Num: 14
Candidate Starts for Grayson_172:
(Start: 14 @92452 has 1 MA's),

Gene: IdentityCrisis_47 Start: 31026, Stop: 31214, Start Num: 8
Candidate Starts for IdentityCrisis_47:
(Start: 8 @31026 has 1 MA's), (16, 31071), (18, 31083), (19, 31092), (20, 31095), (26, 31164), (29, 31182), (31, 31194),

Gene: Lollipop1437_6 Start: 4364, Stop: 4594, Start Num: 6
Candidate Starts for Lollipop1437_6:
(Start: 6 @4364 has 7 MA's), (23, 4478), (24, 4484), (26, 4508), (28, 4523), (33, 4544),

Gene: Patio_7 Start: 5032, Stop: 5262, Start Num: 6
Candidate Starts for Patio_7:
(Start: 6 @5032 has 7 MA's), (23, 5146), (24, 5152), (25, 5173), (26, 5176), (28, 5191), (33, 5212),

Gene: Pleakley_5 Start: 2948, Stop: 3193, Start Num: 4
Candidate Starts for Pleakley_5:
(2, 2900), (Start: 4 @2948 has 2 MA's), (7, 2972), (22, 3077), (23, 3083), (35, 3155),

Gene: SketchMex_38 Start: 27315, Stop: 27118, Start Num: 11
Candidate Starts for SketchMex_38:
(Start: 11 @27315 has 4 MA's), (17, 27267), (21, 27237), (22, 27219), (23, 27213), (25, 27189), (30, 27165), (34, 27147), (36, 27129),

Gene: Skysand_6 Start: 4364, Stop: 4594, Start Num: 6
Candidate Starts for Skysand_6:
(Start: 6 @4364 has 7 MA's), (23, 4478), (24, 4484), (26, 4508), (28, 4523), (33, 4544),

Gene: Troje_40 Start: 27694, Stop: 27467, Start Num: 5
Candidate Starts for Troje_40:
(Start: 5 @27694 has 1 MA's), (Start: 11 @27664 has 4 MA's), (17, 27616), (21, 27586), (22, 27568), (23, 27562), (25, 27538), (30, 27514), (34, 27496),

Gene: Turuncu_6 Start: 3772, Stop: 3981, Start Num: 11
Candidate Starts for Turuncu_6:
(Start: 6 @3760 has 7 MA's), (Start: 11 @3772 has 4 MA's), (15, 3808), (28, 3919), (32, 3937), (33, 3940),

Gene: Weasels2_176 Start: 96304, Stop: 96510, Start Num: 11
Candidate Starts for Weasels2_176:
(Start: 11 @96304 has 4 MA's),