Pham 155127

1: Peregrin_19

2: Grayson_26

3: Grayson_21

4: Grayson_20

5: Peregrin_24

6: Weasels2_18

7: Weasels2_22

8: Peregrin_20

9: Keelari_65

10: Fryberger_66

11: Volt_69 + 2

12: Guey18_72
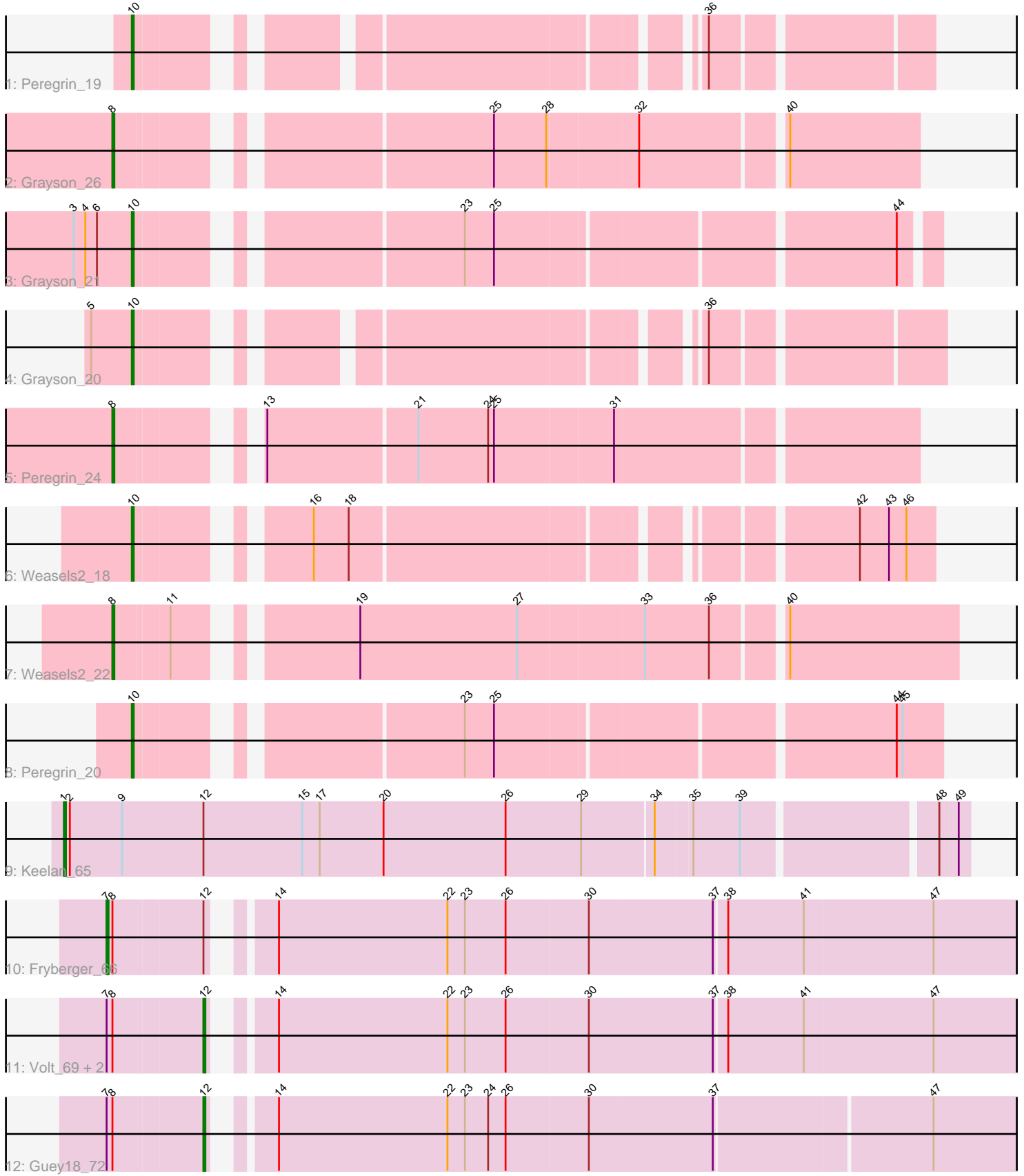
Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 155127 Report

This analysis was run 04/12/24 on database version 558.

Pham number 155127 has 14 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Peregrin_19
• Track 2 : Grayson_26
• Track 3 : Grayson_21
• Track 4 : Grayson_20
• Track 5 : Peregrin_24
• Track 6 : Weasels2_18
• Track 7 : Weasels2_22
• Track 8 : Peregrin_20
• Track 9 : Keelan_65
• Track 10 : Fryberger_66
• Track 11 : Volt_69, Ronaldo_69, Ziko_69
• Track 12 : Guey18_72

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

The start number called the most often in the published annotations is 10, it was called in 5 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Grayson_20, Grayson_21, Peregrin_19, Peregrin_20, Weasels2_18,

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

Genes that do not have the "Most Annotated" start:
• Fryberger_66, Grayson_26, Guey18_72, Keelan_65, Peregrin_24, Ronaldo_69, Volt_69, Weasels2_22, Ziko_69,

Summary by start number:

Start 1:
• Found in 1 of 14 (7.1%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Keelan_65 (DP),

Start 7:
• Found in 5 of 14 (35.7%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Fryberger_66 (DP),

Start 8:
• Found in 8 of 14 (57.1%) of genes in pham
• Manual Annotations of this start: 3 of 14
• Called 37.5% of time when present
• Phage (with cluster) where this start called: Grayson_26 (CB), Peregrin_24 (CB), Weasels2_22 (CB),

Start 10:
• Found in 5 of 14 (35.7%) of genes in pham
• Manual Annotations of this start: 5 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Grayson_20 (CB), Grayson_21 (CB), Peregrin_19 (CB), Peregrin_20 (CB), Weasels2_18 (CB),

Start 12:
• Found in 6 of 14 (42.9%) of genes in pham
• Manual Annotations of this start: 4 of 14
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Guey18_72 (DP), Ronaldo_69 (DP), Volt_69 (DP), Ziko_69 (DP),

Summary by clusters:

There are 2 clusters represented in this pham: CB, DP,

Info for manual annotations of cluster CB:
•Start number 8 was manually annotated 3 times for cluster CB.
•Start number 10 was manually annotated 5 times for cluster CB.

Info for manual annotations of cluster DP:
•Start number 1 was manually annotated 1 time for cluster DP.
•Start number 7 was manually annotated 1 time for cluster DP.
•Start number 12 was manually annotated 4 times for cluster DP.

Gene Information:
Gene: Fryberger_66 Start: 37289, Stop: 36822, Start Num: 7
Candidate Starts for Fryberger_66:
(Start: 7 @37289 has 1 MA's), (Start: 8 @37286 has 3 MA's), (Start: 12 @37241 has 4 MA's), (14, 37220), (22, 37133), (23, 37124), (26, 37103), (30, 37061), (37, 36998), (38, 36992), (41, 36953), (47, 36887),

Gene: Grayson_26 Start: 7449, Stop: 7075, Start Num: 8

Candidate Starts for Grayson_26:
(Start: 8 @7449 has 3 MA's), (25, 7281), (28, 7254), (32, 7209), (40, 7140),

Gene: Grayson_21 Start: 6068, Stop: 5700, Start Num: 10
Candidate Starts for Grayson_21:
(3, 6098), (4, 6092), (6, 6086), (Start: 10 @6068 has 5 MA's), (23, 5924), (25, 5909), (44, 5717),

Gene: Grayson_20 Start: 5707, Stop: 5357, Start Num: 10
Candidate Starts for Grayson_20:
(5, 5728), (Start: 10 @5707 has 5 MA's), (36, 5467),

Gene: Guey18_72 Start: 38757, Stop: 38341, Start Num: 12
Candidate Starts for Guey18_72:
(Start: 7 @38805 has 1 MA's), (Start: 8 @38802 has 3 MA's), (Start: 12 @38757 has 4 MA's), (14, 38736), (22, 38649), (23, 38640), (24, 38628), (26, 38619), (30, 38577), (37, 38514), (47, 38406),

Gene: Keelan_65 Start: 37692, Stop: 37240, Start Num: 1
Candidate Starts for Keelan_65:
(Start: 1 @37692 has 1 MA's), (2, 37689), (9, 37662), (Start: 12 @37620 has 4 MA's), (15, 37569), (17, 37560), (20, 37527), (26, 37464), (29, 37425), (34, 37389), (35, 37371), (39, 37347), (48, 37254), (49, 37245),

Gene: Peregrin_19 Start: 5539, Stop: 5195, Start Num: 10
Candidate Starts for Peregrin_19:
(Start: 10 @5539 has 5 MA's), (36, 5299),

Gene: Peregrin_24 Start: 6762, Stop: 6388, Start Num: 8
Candidate Starts for Peregrin_24:
(Start: 8 @6762 has 3 MA's), (13, 6708), (21, 6633), (24, 6597), (25, 6594), (31, 6534),

Gene: Peregrin_20 Start: 5906, Stop: 5532, Start Num: 10
Candidate Starts for Peregrin_20:
(Start: 10 @5906 has 5 MA's), (23, 5762), (25, 5747), (44, 5555), (45, 5552),

Gene: Ronaldo_69 Start: 38131, Stop: 37712, Start Num: 12
Candidate Starts for Ronaldo_69:
(Start: 7 @38179 has 1 MA's), (Start: 8 @38176 has 3 MA's), (Start: 12 @38131 has 4 MA's), (14, 38110), (22, 38023), (23, 38014), (26, 37993), (30, 37951), (37, 37888), (38, 37882), (41, 37843), (47, 37777),

Gene: Volt_69 Start: 38295, Stop: 37876, Start Num: 12
Candidate Starts for Volt_69:
(Start: 7 @38343 has 1 MA's), (Start: 8 @38340 has 3 MA's), (Start: 12 @38295 has 4 MA's), (14, 38274), (22, 38187), (23, 38178), (26, 38157), (30, 38115), (37, 38052), (38, 38046), (41, 38007), (47, 37941),

Gene: Weasels2_18 Start: 5542, Stop: 5186, Start Num: 10
Candidate Starts for Weasels2_18:
(Start: 10 @5542 has 5 MA's), (16, 5473), (18, 5455), (42, 5224), (43, 5209), (46, 5200),

Gene: Weasels2_22 Start: 6969, Stop: 6571, Start Num: 8
Candidate Starts for Weasels2_22:
(Start: 8 @6969 has 3 MA's), (11, 6942), (19, 6867), (27, 6786), (33, 6723), (36, 6690), (40, 6657),

Gene: Ziko_69 Start: 38117, Stop: 37698, Start Num: 12
Candidate Starts for Ziko_69:
(Start: 7 @38165 has 1 MA's), (Start: 8 @38162 has 3 MA's), (Start: 12 @38117 has 4 MA's), (14, 38096), (22, 38009), (23, 38000), (26, 37979), (30, 37937), (37, 37874), (38, 37868), (41, 37829), (47, 37763),