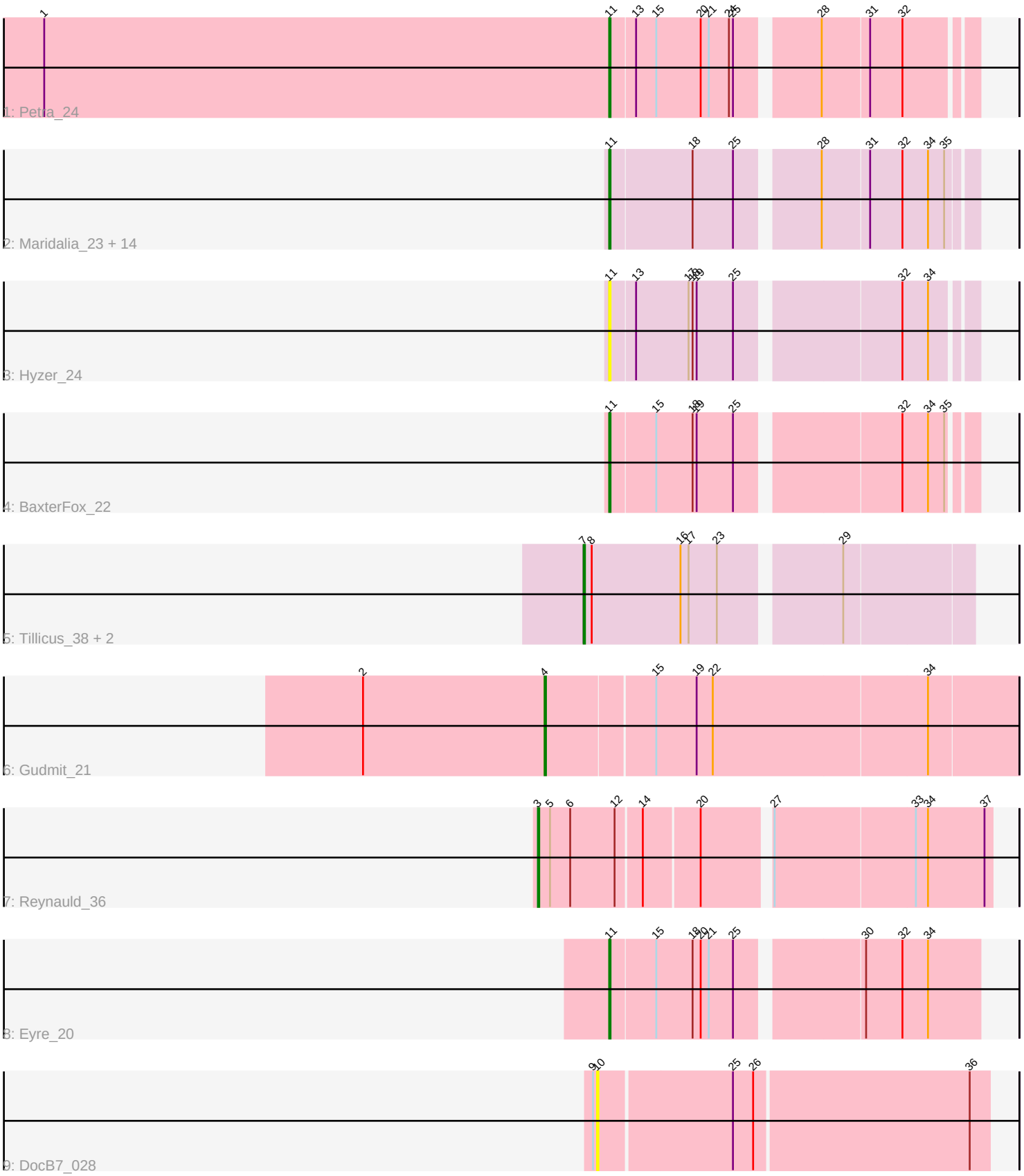
Pham 154967


1: Petia_24
2: Maridalia_23 + 14
3: Hyzer_24
4: BaxterFox_22
5: Tillicus_38 + 2
6: Gudmit_21
7: Reynauld_36
8: Eyre_20
9: DocB7_028

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 154967 Report

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

Pham number 154967 has 25 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Petra_24
• Track 2 : Maridalia_23, Suscepit_24, Eudoria_24, AlumE_23, Neobush_24, Tayonia_24, Antonio_24, PantheRoc_22, Zameen_24, BoyNamedSue_23, Agueybana_23, Yeezy_24, Manasvini_24, Trumpet_24, Kita_24
• Track 3 : Hyzer_24
• Track 4 : BaxterFox_22
• Track 5 : Tillicus_38, LuckyLeo_37, Apeppi_35
• Track 6 : Gudmit_21
• Track 7 : Reynauld_36
• Track 8 : Eyre_20
• Track 9 : DocB7_028

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

The start number called the most often in the published annotations is 11, it was called in 17 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Agueybana_23, AlumE_23, Antonio_24, BaxterFox_22, BoyNamedSue_23, Eudoria_24, Eyre_20, Hyzer_24, Kita_24, Manasvini_24, Maridalia_23, Neobush_24, PantheRoc_22, Petra_24, Suscepit_24, Tayonia_24, Trumpet_24, Yeezy_24, Zameen_24,

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

Genes that do not have the "Most Annotated" start:
• Apeppi_35, DocB7_028, Gudmit_21, LuckyLeo_37, Reynauld_36, Tillicus_38,

Summary by start number:

Start 3:
• Found in 1 of 25 (4.0%) of genes in pham
• Manual Annotations of this start: 1 of 20

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Reynauld_36 (singleton),

Start 4:
• Found in 1 of 25 (4.0%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gudmit_21 (singleton),

Start 7:
• Found in 3 of 25 (12.0%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Apeppi_35 (DV), LuckyLeo_37 (DV), Tillicus_38 (DV),

Start 10:
• Found in 1 of 25 (4.0%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DocB7_028 (singleton),

Start 11:
• Found in 19 of 25 (76.0%) of genes in pham
• Manual Annotations of this start: 17 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Agueybana_23 (CZ1), AlumE_23 (CZ1), Antonio_24 (CZ1), BaxterFox_22 (CZ3), BoyNamedSue_23 (CZ1), Eudoria_24 (CZ1), Eyre_20 (singleton), Hyzer_24 (CZ1), Kita_24 (CZ1), Manasvini_24 (CZ1), Maridalia_23 (CZ1), Neobush_24 (CZ1), PantheRoc_22 (CZ3), Petra_24 (CV), Suscepit_24 (CZ1), Tayonia_24 (CZ1), Trumpet_24 (CZ1), Yeezy_24 (CZ3), Zameen_24 (CZ1),

Summary by clusters:

There are 5 clusters represented in this pham: DV, CZ3, singleton, CZ1, CV,

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

Info for manual annotations of cluster CZ1:
•Start number 11 was manually annotated 13 times for cluster CZ1.

Info for manual annotations of cluster CZ3:
•Start number 11 was manually annotated 2 times for cluster CZ3.

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

Gene Information:

Gene: Agueybana_23 Start: 21382, Stop: 21633, Start Num: 11
Candidate Starts for Agueybana_23:
(Start: 11 @21382 has 17 MA's), (18, 21442), (25, 21472), (28, 21526), (31, 21559), (32, 21583), (34, 21601), (35, 21613),

Gene: AlumE_23 Start: 21381, Stop: 21632, Start Num: 11
Candidate Starts for AlumE_23:
(Start: 11 @21381 has 17 MA's), (18, 21441), (25, 21471), (28, 21525), (31, 21558), (32, 21582), (34, 21600), (35, 21612),

Gene: Antonio_24 Start: 21502, Stop: 21753, Start Num: 11
Candidate Starts for Antonio_24:
(Start: 11 @21502 has 17 MA's), (18, 21562), (25, 21592), (28, 21646), (31, 21679), (32, 21703), (34, 21721), (35, 21733),

Gene: Apeppi_35 Start: 31991, Stop: 32263, Start Num: 7
Candidate Starts for Apeppi_35:
(Start: 7 @31991 has 1 MA's), (8, 31997), (16, 32063), (17, 32069), (23, 32090), (29, 32171),

Gene: BaxterFox_22 Start: 20708, Stop: 20956, Start Num: 11
Candidate Starts for BaxterFox_22:
(Start: 11 @20708 has 17 MA's), (15, 20741), (18, 20768), (19, 20771), (25, 20798), (32, 20909), (34, 20927), (35, 20939),

Gene: BoyNamedSue_23 Start: 21381, Stop: 21632, Start Num: 11
Candidate Starts for BoyNamedSue_23:
(Start: 11 @21381 has 17 MA's), (18, 21441), (25, 21471), (28, 21525), (31, 21558), (32, 21582), (34, 21600), (35, 21612),

Gene: DocB7_028 Start: 33620, Stop: 33901, Start Num: 10
Candidate Starts for DocB7_028:
(9, 33617), (10, 33620), (25, 33716), (26, 33731), (36, 33887),

Gene: Eudoria_24 Start: 21502, Stop: 21753, Start Num: 11
Candidate Starts for Eudoria_24:
(Start: 11 @21502 has 17 MA's), (18, 21562), (25, 21592), (28, 21646), (31, 21679), (32, 21703), (34, 21721), (35, 21733),

Gene: Eyre_20 Start: 18730, Stop: 18987, Start Num: 11
Candidate Starts for Eyre_20:
(Start: 11 @18730 has 17 MA's), (15, 18763), (18, 18790), (20, 18796), (21, 18802), (25, 18820), (30, 18904), (32, 18931), (34, 18949),

Gene: Gudmit_21 Start: 18691, Stop: 19032, Start Num: 4
Candidate Starts for Gudmit_21:
(2, 18556), (Start: 4 @18691 has 1 MA's), (15, 18769), (19, 18799), (22, 18811), (34, 18967),

Gene: Hyzer_24 Start: 22048, Stop: 22296, Start Num: 11
Candidate Starts for Hyzer_24:
(Start: 11 @22048 has 17 MA's), (13, 22066), (17, 22105), (18, 22108), (19, 22111), (25, 22138), (32, 22249), (34, 22267),

Gene: Kita_24 Start: 21502, Stop: 21753, Start Num: 11

Candidate Starts for Kita_24:
(Start: 11 @21502 has 17 MA's), (18, 21562), (25, 21592), (28, 21646), (31, 21679), (32, 21703), (34, 21721), (35, 21733),

Gene: LuckyLeo_37 Start: 31991, Stop: 32263, Start Num: 7
Candidate Starts for LuckyLeo_37:
(Start: 7 @31991 has 1 MA's), (8, 31997), (16, 32063), (17, 32069), (23, 32090), (29, 32171),

Gene: Manasvini_24 Start: 21502, Stop: 21753, Start Num: 11
Candidate Starts for Manasvini_24:
(Start: 11 @21502 has 17 MA's), (18, 21562), (25, 21592), (28, 21646), (31, 21679), (32, 21703), (34, 21721), (35, 21733),

Gene: Maridalia_23 Start: 21502, Stop: 21753, Start Num: 11
Candidate Starts for Maridalia_23:
(Start: 11 @21502 has 17 MA's), (18, 21562), (25, 21592), (28, 21646), (31, 21679), (32, 21703), (34, 21721), (35, 21733),

Gene: Neobush_24 Start: 21502, Stop: 21753, Start Num: 11
Candidate Starts for Neobush_24:
(Start: 11 @21502 has 17 MA's), (18, 21562), (25, 21592), (28, 21646), (31, 21679), (32, 21703), (34, 21721), (35, 21733),

Gene: PantheRoc_22 Start: 20700, Stop: 20951, Start Num: 11
Candidate Starts for PantheRoc_22:
(Start: 11 @20700 has 17 MA's), (18, 20760), (25, 20790), (28, 20844), (31, 20877), (32, 20901), (34, 20919), (35, 20931),

Gene: Petra_24 Start: 20354, Stop: 20602, Start Num: 11
Candidate Starts for Petra_24:
(1, 19934), (Start: 11 @20354 has 17 MA's), (13, 20372), (15, 20387), (20, 20420), (21, 20426), (24, 20441), (25, 20444), (28, 20498), (31, 20531), (32, 20555),

Gene: Reynauld_36 Start: 37401, Stop: 37718, Start Num: 3
Candidate Starts for Reynauld_36:
(Start: 3 @37401 has 1 MA's), (5, 37410), (6, 37425), (12, 37458), (14, 37476), (20, 37515), (27, 37560), (33, 37662), (34, 37671), (37, 37713),

Gene: Suscepit_24 Start: 21502, Stop: 21753, Start Num: 11
Candidate Starts for Suscepit_24:
(Start: 11 @21502 has 17 MA's), (18, 21562), (25, 21592), (28, 21646), (31, 21679), (32, 21703), (34, 21721), (35, 21733),

Gene: Tayonia_24 Start: 21502, Stop: 21753, Start Num: 11
Candidate Starts for Tayonia_24:
(Start: 11 @21502 has 17 MA's), (18, 21562), (25, 21592), (28, 21646), (31, 21679), (32, 21703), (34, 21721), (35, 21733),

Gene: Tillicus_38 Start: 31585, Stop: 31857, Start Num: 7
Candidate Starts for Tillicus_38:
(Start: 7 @31585 has 1 MA's), (8, 31591), (16, 31657), (17, 31663), (23, 31684), (29, 31765),

Gene: Trumpet_24 Start: 21502, Stop: 21753, Start Num: 11

Candidate Starts for Trumpet_24:
(Start: 11 @21502 has 17 MA's), (18, 21562), (25, 21592), (28, 21646), (31, 21679), (32, 21703), (34, 21721), (35, 21733),

Gene: Yeezy_24 Start: 20724, Stop: 20975, Start Num: 11
Candidate Starts for Yeezy_24:
(Start: 11 @20724 has 17 MA's), (18, 20784), (25, 20814), (28, 20868), (31, 20901), (32, 20925), (34, 20943), (35, 20955),

Gene: Zameen_24 Start: 21502, Stop: 21753, Start Num: 11
Candidate Starts for Zameen_24:
(Start: 11 @21502 has 17 MA's), (18, 21562), (25, 21592), (28, 21646), (31, 21679), (32, 21703), (34, 21721), (35, 21733),