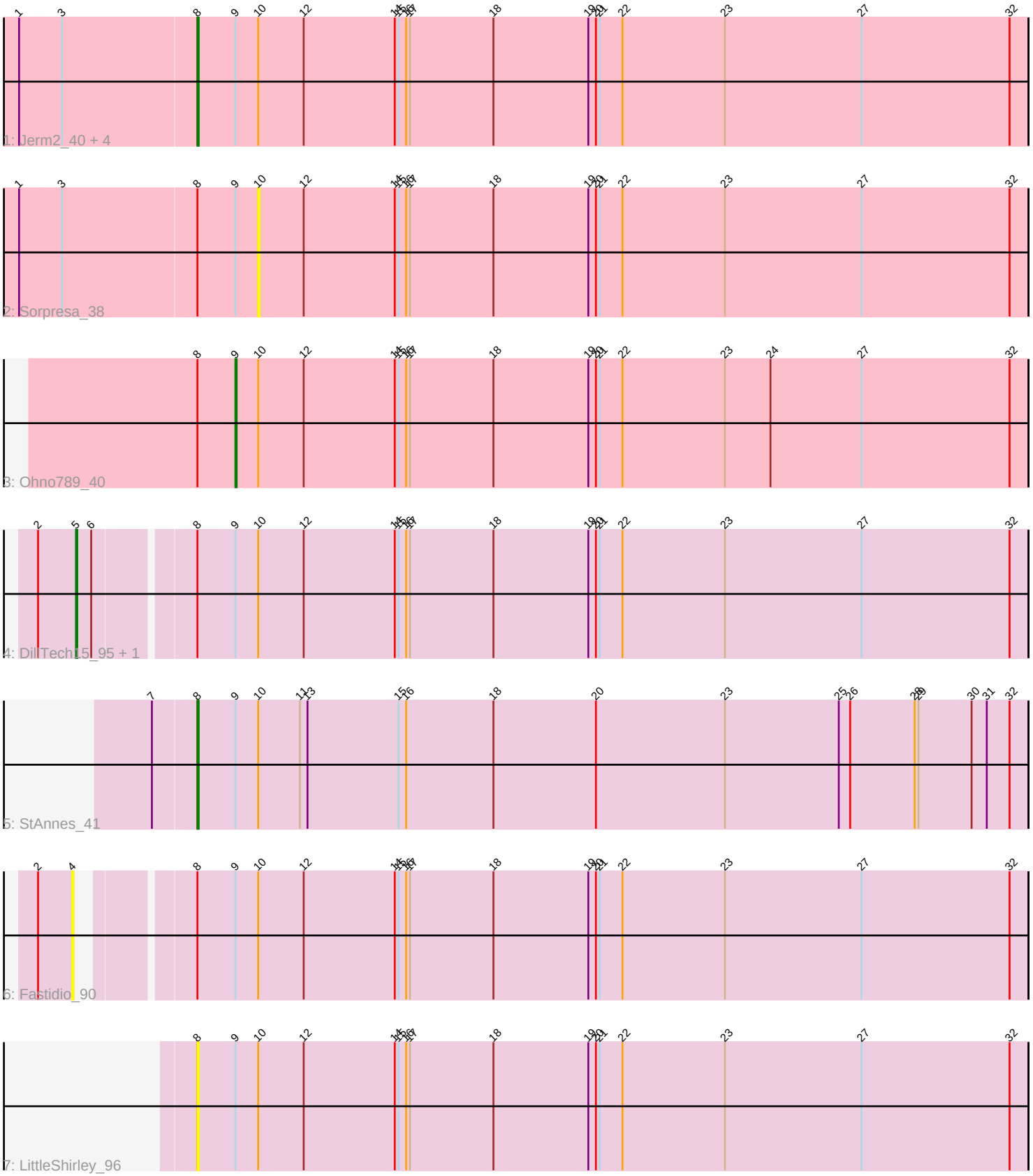
Pham 107093


1: Jerm2_40 + 4
2: Sorpresa_38
3: Ohno789_40
4: DillTech15_95 + 1
5: StAnnes_41
6: Fastidio_90
7: LittleShirley_96

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 107093 Report

This analysis was run 04/28/24 on database version 559.

Pham number 107093 has 12 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Jerm2_40, BaconJack_42, Rohr_40, HermioneGrange_39, Sandaddy_39
• Track 2 : Sorpresa_38
• Track 3 : Ohno789_40
• Track 4 : DillTech15_95, Totinger_93
• Track 5 : StAnnes_41
• Track 6 : Fastidio_90
• Track 7 : LittleShirley_96

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

The start number called the most often in the published annotations is 8, it was called in 5 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BaconJack_42, HermioneGrange_39, Jerm2_40, LittleShirley_96, Rohr_40, Sandaddy_39, StAnnes_41,

Genes that have the "Most Annotated" start but do not call it:
• DillTech15_95, Fastidio_90, Ohno789_40, Sorpresa_38, Totinger_93,

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

Summary by start number:

Start 4:
• Found in 1 of 12 (8.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Fastidio_90 (F1),

Start 5:
• Found in 2 of 12 (16.7%) of genes in pham
• Manual Annotations of this start: 1 of 7

• Called 100.0% of time when present
• Phage (with cluster) where this start called: DillTech15_95 (F1), Totinger_93 (F1),

Start 8:
• Found in 12 of 12 (100.0%) of genes in pham
• Manual Annotations of this start: 5 of 7
• Called 58.3% of time when present
• Phage (with cluster) where this start called: BaconJack_42 (A1), HermioneGrange_39 (A1), Jerm2_40 (A1), LittleShirley_96 (F1), Rohr_40 (A1), Sandaddy_39 (A1), StAnnes_41 (F1),

Start 9:
• Found in 12 of 12 (100.0%) of genes in pham
• Manual Annotations of this start: 1 of 7
• Called 8.3% of time when present
• Phage (with cluster) where this start called: Ohno789_40 (A1),

Start 10:
• Found in 12 of 12 (100.0%) of genes in pham
• No Manual Annotations of this start.
• Called 8.3% of time when present
• Phage (with cluster) where this start called: Sorpresa_38 (A1),

Summary by clusters:

There are 2 clusters represented in this pham: A1, F1,

Info for manual annotations of cluster A1:
•Start number 8 was manually annotated 4 times for cluster A1.
•Start number 9 was manually annotated 1 time for cluster A1.

Info for manual annotations of cluster F1:
•Start number 5 was manually annotated 1 time for cluster F1.
•Start number 8 was manually annotated 1 time for cluster F1.

Gene Information:

Gene: BaconJack_42 Start: 32551, Stop: 31895, Start Num: 8
Candidate Starts for BaconJack_42:
(1, 32689), (3, 32656), (Start: 8 @32551 has 5 MA's), (Start: 9 @32521 has 1 MA's), (10, 32503), (12, 32467), (14, 32395), (15, 32392), (16, 32386), (17, 32383), (18, 32317), (19, 32242), (20, 32236), (21, 32233), (22, 32215), (23, 32134), (27, 32026), (32, 31909),

Gene: DillTech15_95 Start: 50659, Stop: 51399, Start Num: 5
Candidate Starts for DillTech15_95:
(2, 50629), (Start: 5 @50659 has 1 MA's), (6, 50671), (Start: 8 @50743 has 5 MA's), (Start: 9 @50773 has 1 MA's), (10, 50791), (12, 50827), (14, 50899), (15, 50902), (16, 50908), (17, 50911), (18, 50977), (19, 51052), (20, 51058), (21, 51061), (22, 51079), (23, 51160), (27, 51268), (32, 51385),

Gene: Fastidio_90 Start: 48551, Stop: 49279, Start Num: 4
Candidate Starts for Fastidio_90:

(2, 48524), (4, 48551), (Start: 8 @48623 has 5 MA's), (Start: 9 @48653 has 1 MA's), (10, 48671), (12, 48707), (14, 48779), (15, 48782), (16, 48788), (17, 48791), (18, 48857), (19, 48932), (20, 48938), (21, 48941), (22, 48959), (23, 49040), (27, 49148), (32, 49265),

Gene: HermioneGrange_39 Start: 31927, Stop: 31271, Start Num: 8
Candidate Starts for HermioneGrange_39:
(1, 32065), (3, 32032), (Start: 8 @31927 has 5 MA's), (Start: 9 @31897 has 1 MA's), (10, 31879), (12, 31843), (14, 31771), (15, 31768), (16, 31762), (17, 31759), (18, 31693), (19, 31618), (20, 31612), (21, 31609), (22, 31591), (23, 31510), (27, 31402), (32, 31285),

Gene: Jerm2_40 Start: 32182, Stop: 31526, Start Num: 8
Candidate Starts for Jerm2_40:
(1, 32320), (3, 32287), (Start: 8 @32182 has 5 MA's), (Start: 9 @32152 has 1 MA's), (10, 32134), (12, 32098), (14, 32026), (15, 32023), (16, 32017), (17, 32014), (18, 31948), (19, 31873), (20, 31867), (21, 31864), (22, 31846), (23, 31765), (27, 31657), (32, 31540),

Gene: LittleShirley_96 Start: 51914, Stop: 52570, Start Num: 8
Candidate Starts for LittleShirley_96:
(Start: 8 @51914 has 5 MA's), (Start: 9 @51944 has 1 MA's), (10, 51962), (12, 51998), (14, 52070), (15, 52073), (16, 52079), (17, 52082), (18, 52148), (19, 52223), (20, 52229), (21, 52232), (22, 52250), (23, 52331), (27, 52439), (32, 52556),

Gene: Ohno789_40 Start: 32400, Stop: 31774, Start Num: 9
Candidate Starts for Ohno789_40:
(Start: 8 @32430 has 5 MA's), (Start: 9 @32400 has 1 MA's), (10, 32382), (12, 32346), (14, 32274), (15, 32271), (16, 32265), (17, 32262), (18, 32196), (19, 32121), (20, 32115), (21, 32112), (22, 32094), (23, 32013), (24, 31977), (27, 31905), (32, 31788),

Gene: Rohr_40 Start: 32228, Stop: 31572, Start Num: 8
Candidate Starts for Rohr_40:
(1, 32366), (3, 32333), (Start: 8 @32228 has 5 MA's), (Start: 9 @32198 has 1 MA's), (10, 32180), (12, 32144), (14, 32072), (15, 32069), (16, 32063), (17, 32060), (18, 31994), (19, 31919), (20, 31913), (21, 31910), (22, 31892), (23, 31811), (27, 31703), (32, 31586),

Gene: Sandaddy_39 Start: 32135, Stop: 31479, Start Num: 8
Candidate Starts for Sandaddy_39:
(1, 32273), (3, 32240), (Start: 8 @32135 has 5 MA's), (Start: 9 @32105 has 1 MA's), (10, 32087), (12, 32051), (14, 31979), (15, 31976), (16, 31970), (17, 31967), (18, 31901), (19, 31826), (20, 31820), (21, 31817), (22, 31799), (23, 31718), (27, 31610), (32, 31493),

Gene: Sorpresa_38 Start: 32089, Stop: 31481, Start Num: 10
Candidate Starts for Sorpresa_38:
(1, 32275), (3, 32242), (Start: 8 @32137 has 5 MA's), (Start: 9 @32107 has 1 MA's), (10, 32089), (12, 32053), (14, 31981), (15, 31978), (16, 31972), (17, 31969), (18, 31903), (19, 31828), (20, 31822), (21, 31819), (22, 31801), (23, 31720), (27, 31612), (32, 31495),

Gene: StAnnes_41 Start: 33295, Stop: 32639, Start Num: 8
Candidate Starts for StAnnes_41:
(7, 33322), (Start: 8 @33295 has 5 MA's), (Start: 9 @33265 has 1 MA's), (10, 33247), (11, 33214), (13, 33208), (15, 33136), (16, 33130), (18, 33061), (20, 32980), (23, 32878), (25, 32788), (26, 32779), (28, 32728), (29, 32725), (30, 32683), (31, 32671), (32, 32653),

Gene: Totinger_93 Start: 50907, Stop: 51647, Start Num: 5

Candidate Starts for Totinger_93:
(2, 50877), (Start: 5 @50907 has 1 MA's), (6, 50919), (Start: 8 @50991 has 5 MA's), (Start: 9 @51021 has 1 MA's), (10, 51039), (12, 51075), (14, 51147), (15, 51150), (16, 51156), (17, 51159), (18, 51225), (19, 51300), (20, 51306), (21, 51309), (22, 51327), (23, 51408), (27, 51516), (32, 51633),