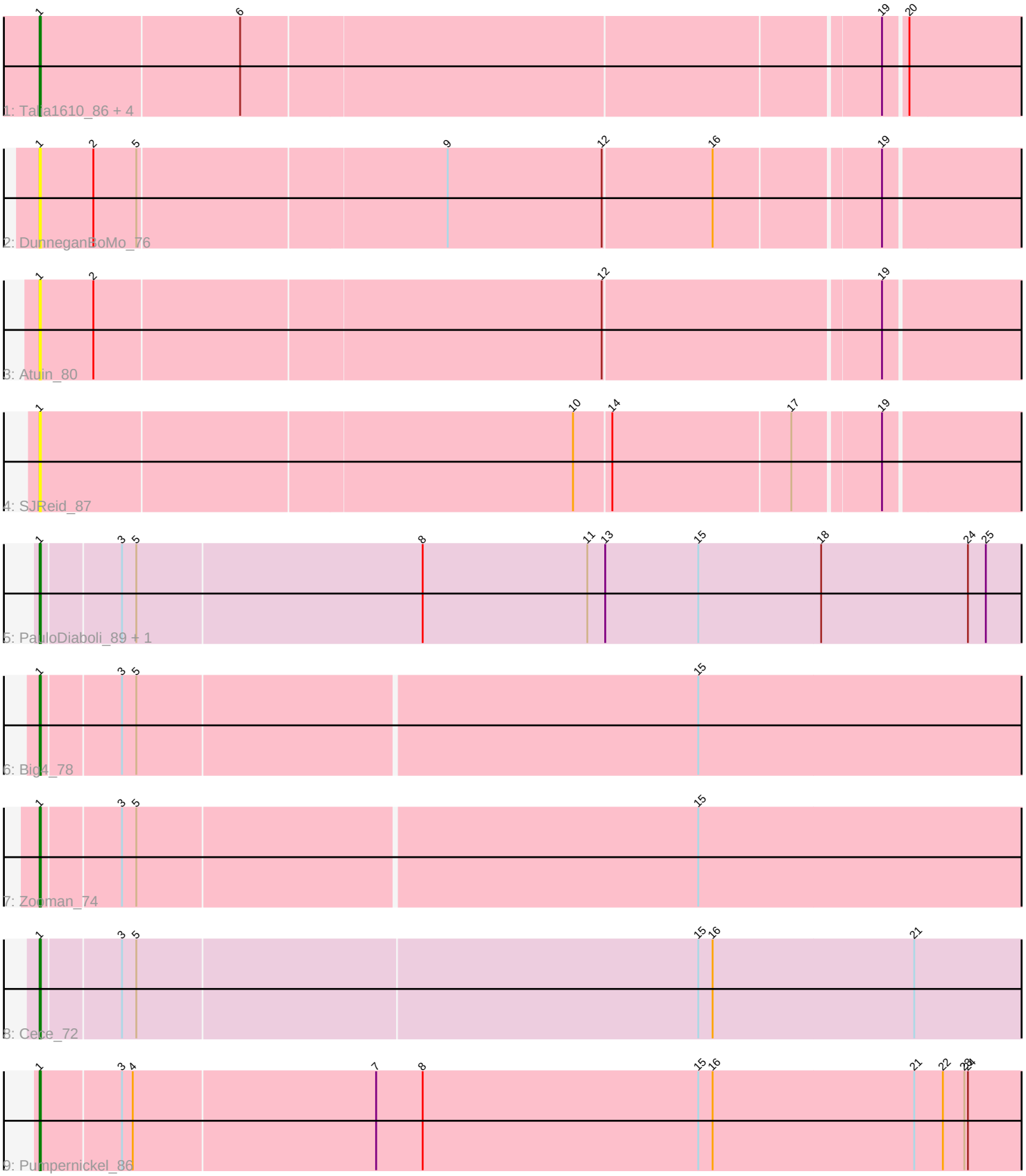
Pham 159499


1: Tafa1610_86 + 4
2: DunneganBoMo_76
3: Atuin_80
4: SJReid_87
5: PauloDiaboli_89 + 1
6: Big4_78
7: Zooman_74
8: Cece_72
9: Pumpernickel_86

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 159499 Report

This analysis was run 05/04/24 on database version 560.

Pham number 159499 has 14 members, 7 are drafts.

Phages represented in each track:
• Track 1 : Talia1610_86, Bloom_86, Patbob_83, Racecar_83, Mimi_89
• Track 2 : DunneganBoMo_76
• Track 3 : Atuin_80
• Track 4 : SJReid_87
• Track 5 : PauloDiaboli_89, A3Wally_89
• Track 6 : Big4_78
• Track 7 : Zooman_74
• Track 8 : Cece_72
• Track 9 : Pumpernickel_86

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

The start number called the most often in the published annotations is 1, it was called in 7 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• A3Wally_89, Atuin_80, Big4_78, Bloom_86, Cece_72, DunneganBoMo_76, Mimi_89, Patbob_83, PauloDiaboli_89, Pumpernickel_86, Racecar_83, SJReid_87, Talia1610_86, Zooman_74,

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

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

Summary by start number:

Start 1:
• Found in 14 of 14 (100.0%) of genes in pham
• Manual Annotations of this start: 7 of 7
• Called 100.0% of time when present
• Phage (with cluster) where this start called: A3Wally_89 (GD1), Atuin_80 (FC), Big4_78 (GD2), Bloom_86 (FC), Cece_72 (GD3), DunneganBoMo_76 (FC), Mimi_89

(FC), Patbob_83 (FC), PauloDiaboli_89 (GD1), Pumpernickel_86 (GD4), Racecar_83 (FC), SJReid_87 (FC), Talia1610_86 (FC), Zooman_74 (GD2),

Summary by clusters:

There are 5 clusters represented in this pham: GD3, GD1, GD2, FC, GD4,

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

Info for manual annotations of cluster GD1:
•Start number 1 was manually annotated 2 times for cluster GD1.

Info for manual annotations of cluster GD2:
•Start number 1 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:
•Start number 1 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:
•Start number 1 was manually annotated 1 time for cluster GD4.

Gene Information:

Gene: A3Wally_89 Start: 46992, Stop: 47873, Start Num: 1
Candidate Starts for A3Wally_89:
(Start: 1 @46992 has 7 MA's), (3, 47055), (5, 47067), (8, 47304), (11, 47442), (13, 47457), (15, 47535), (18, 47637), (24, 47760), (25, 47775),

Gene: Atuin_80 Start: 48877, Stop: 49749, Start Num: 1
Candidate Starts for Atuin_80:
(Start: 1 @48877 has 7 MA's), (2, 48922), (12, 49339), (19, 49564),

Gene: Big4_78 Start: 45834, Stop: 46709, Start Num: 1
Candidate Starts for Big4_78:
(Start: 1 @45834 has 7 MA's), (3, 45897), (5, 45909), (15, 46371),

Gene: Bloom_86 Start: 50280, Stop: 51149, Start Num: 1
Candidate Starts for Bloom_86:
(Start: 1 @50280 has 7 MA's), (6, 50445), (19, 50964), (20, 50982),

Gene: Cece_72 Start: 41904, Stop: 42782, Start Num: 1
Candidate Starts for Cece_72:
(Start: 1 @41904 has 7 MA's), (3, 41967), (5, 41979), (15, 42444), (16, 42456), (21, 42624),

Gene: DunneganBoMo_76 Start: 45738, Stop: 46607, Start Num: 1
Candidate Starts for DunneganBoMo_76:
(Start: 1 @45738 has 7 MA's), (2, 45783), (5, 45819), (9, 46071), (12, 46200), (16, 46290), (19, 46422),

Gene: Mimi_89 Start: 49627, Stop: 50496, Start Num: 1

Candidate Starts for Mimi_89:
(Start: 1 @49627 has 7 MA's), (6, 49792), (19, 50311), (20, 50329),

Gene: Patbob_83 Start: 50499, Stop: 51368, Start Num: 1
Candidate Starts for Patbob_83:
(Start: 1 @50499 has 7 MA's), (6, 50664), (19, 51183), (20, 51201),

Gene: PauloDiaboli_89 Start: 46349, Stop: 47230, Start Num: 1
Candidate Starts for PauloDiaboli_89:
(Start: 1 @46349 has 7 MA's), (3, 46412), (5, 46424), (8, 46661), (11, 46799), (13, 46814), (15, 46892), (18, 46994), (24, 47117), (25, 47132),

Gene: Pumpernickel_86 Start: 47559, Stop: 48443, Start Num: 1
Candidate Starts for Pumpernickel_86:
(Start: 1 @47559 has 7 MA's), (3, 47625), (4, 47634), (7, 47835), (8, 47874), (15, 48105), (16, 48117), (21, 48285), (22, 48309), (23, 48327), (24, 48330),

Gene: Racecar_83 Start: 50280, Stop: 51149, Start Num: 1
Candidate Starts for Racecar_83:
(Start: 1 @50280 has 7 MA's), (6, 50445), (19, 50964), (20, 50982),

Gene: SJReid_87 Start: 51543, Stop: 52412, Start Num: 1
Candidate Starts for SJReid_87:
(Start: 1 @51543 has 7 MA's), (10, 51981), (14, 52011), (17, 52158), (19, 52227),

Gene: Talia1610_86 Start: 49645, Stop: 50514, Start Num: 1
Candidate Starts for Talia1610_86:
(Start: 1 @49645 has 7 MA's), (6, 49810), (19, 50329), (20, 50347),

Gene: Zooman_74 Start: 44530, Stop: 45405, Start Num: 1
Candidate Starts for Zooman_74:
(Start: 1 @44530 has 7 MA's), (3, 44593), (5, 44605), (15, 45067),