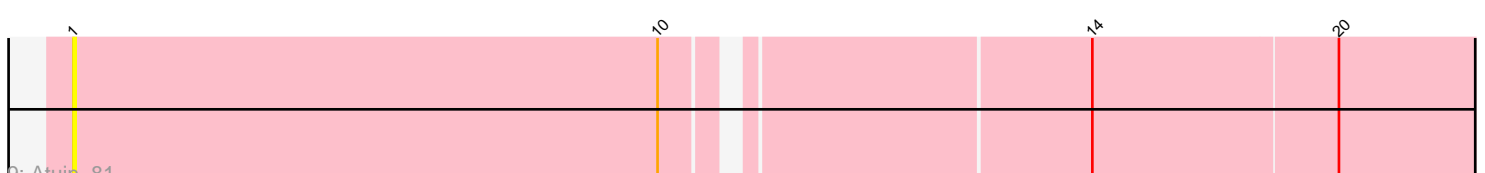
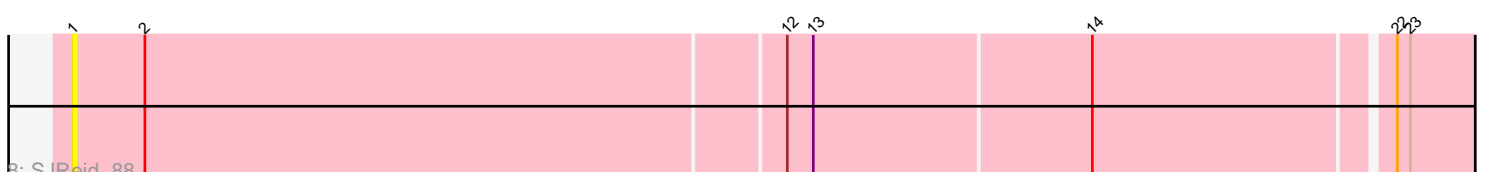
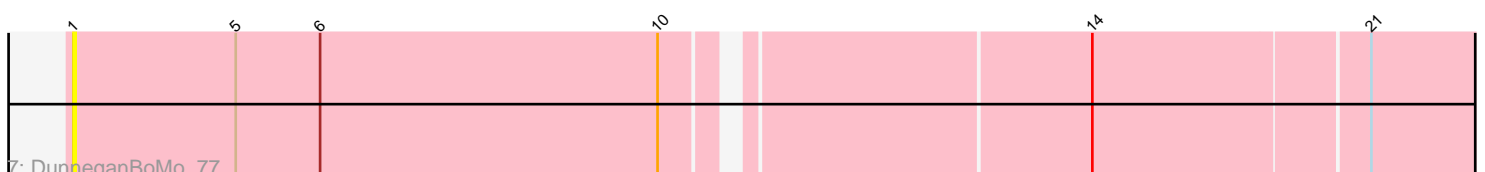
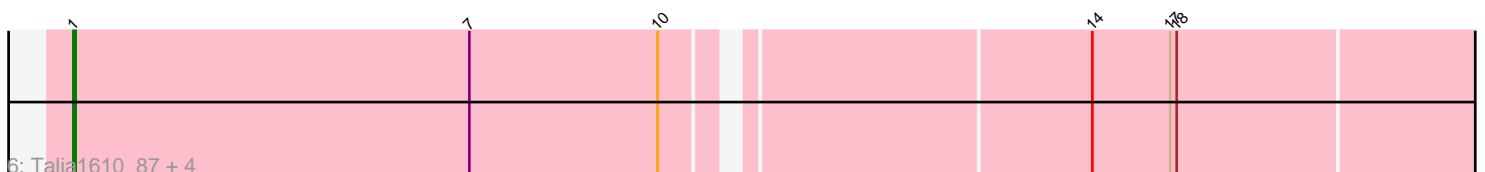
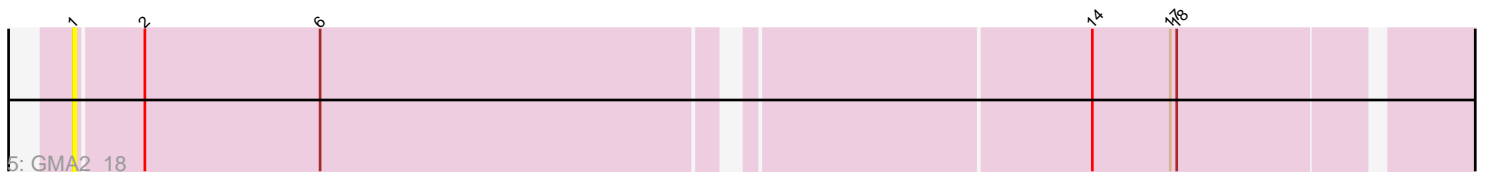
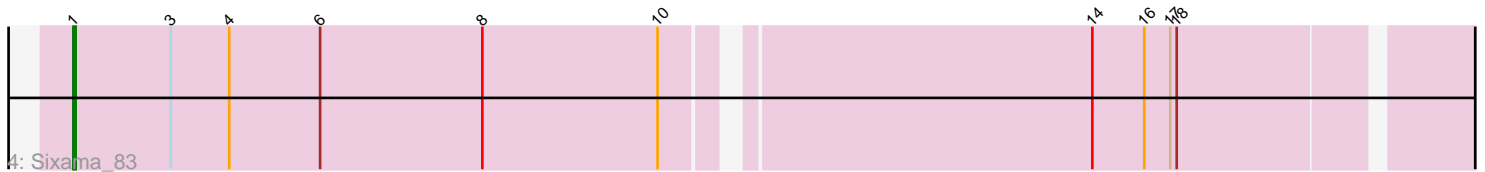
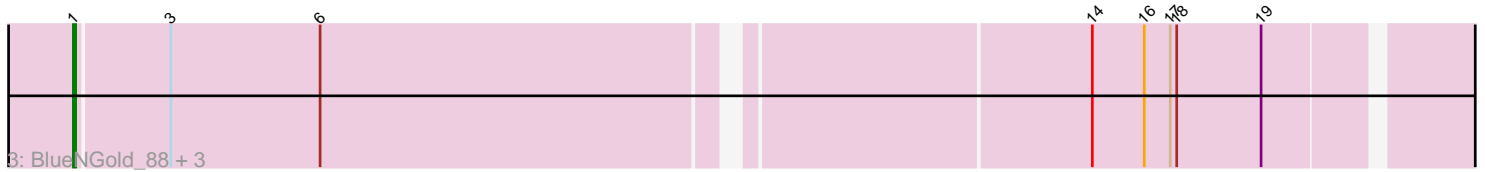
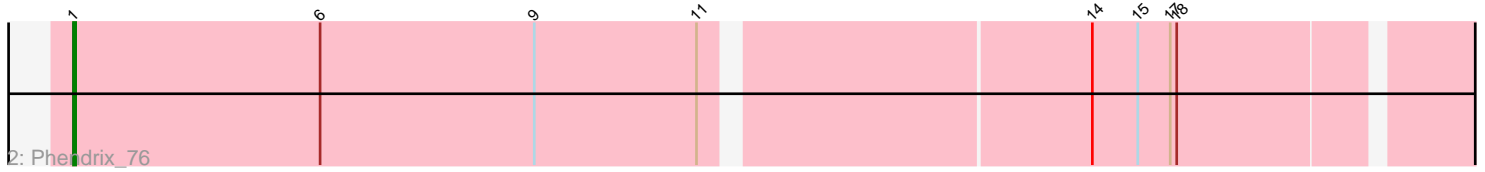
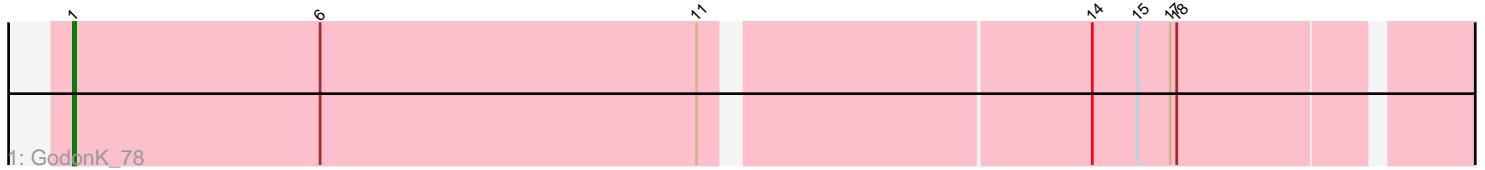


Pham 156742



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 156742 Report

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

Pham number 156742 has 16 members, 8 are drafts.

Phages represented in each track:

- Track 1 : GodonK_78
- Track 2 : Phendrix_76
- Track 3 : BlueNGold_88, Forza_89, Mareelih_87, Boopy_89
- Track 4 : Sixama_83
- Track 5 : GMA2_18
- Track 6 : Talia1610_87, Bloom_87, Mimi_90, Patbob_84, Racecar_84
- Track 7 : DunneganBoMo_77
- Track 8 : SJReid_88
- Track 9 : Atuin_81

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 8 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Atuin_81, Bloom_87, BlueNGold_88, Boopy_89, DunneganBoMo_77, Forza_89, GMA2_18, GodonK_78, Mareelih_87, Mimi_90, Patbob_84, Phendrix_76, Racecar_84, SJReid_88, Sixama_83, Talia1610_87,

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 16 of 16 (100.0%) of genes in pham
- Manual Annotations of this start: 8 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Atuin_81 (FC), Bloom_87 (FC), BlueNGold_88 (DS), Boopy_89 (DS), DunneganBoMo_77 (FC), Forza_89 (DS),

GMA2_18 (DS), GodonK_78 (DK), Mareelih_87 (DS), Mimi_90 (FC), Patbob_84 (FC), Phendrix_76 (DK), Racecar_84 (FC), SJReid_88 (FC), Sixama_83 (DS), Talia1610_87 (FC),

Summary by clusters:

There are 3 clusters represented in this pham: FC, DS, DK,

Info for manual annotations of cluster DK:

- Start number 1 was manually annotated 2 times for cluster DK.

Info for manual annotations of cluster DS:

- Start number 1 was manually annotated 5 times for cluster DS.

Info for manual annotations of cluster FC:

- Start number 1 was manually annotated 1 time for cluster FC.

Gene Information:

Gene: Atuin_81 Start: 49765, Stop: 50412, Start Num: 1

Candidate Starts for Atuin_81:

(Start: 1 @49765 has 8 MA's), (10, 50035), (14, 50215), (20, 50326),

Gene: Bloom_87 Start: 51166, Stop: 51822, Start Num: 1

Candidate Starts for Bloom_87:

(Start: 1 @51166 has 8 MA's), (7, 51349), (10, 51436), (14, 51616), (17, 51652), (18, 51655),

Gene: BlueNGold_88 Start: 44419, Stop: 45063, Start Num: 1

Candidate Starts for BlueNGold_88:

(Start: 1 @44419 has 8 MA's), (3, 44461), (6, 44530), (14, 44866), (16, 44890), (17, 44902), (18, 44905), (19, 44944),

Gene: Boopy_89 Start: 44431, Stop: 45075, Start Num: 1

Candidate Starts for Boopy_89:

(Start: 1 @44431 has 8 MA's), (3, 44473), (6, 44542), (14, 44878), (16, 44902), (17, 44914), (18, 44917), (19, 44956),

Gene: DunneganBoMo_77 Start: 46623, Stop: 47267, Start Num: 1

Candidate Starts for DunneganBoMo_77:

(Start: 1 @46623 has 8 MA's), (5, 46698), (6, 46737), (10, 46893), (14, 47073), (21, 47196),

Gene: Forza_89 Start: 44347, Stop: 44991, Start Num: 1

Candidate Starts for Forza_89:

(Start: 1 @44347 has 8 MA's), (3, 44389), (6, 44458), (14, 44794), (16, 44818), (17, 44830), (18, 44833), (19, 44872),

Gene: GMA2_18 Start: 17722, Stop: 18366, Start Num: 1

Candidate Starts for GMA2_18:

(Start: 1 @17722 has 8 MA's), (2, 17752), (6, 17833), (14, 18169), (17, 18205), (18, 18208),

Gene: GodonK_78 Start: 39164, Stop: 39817, Start Num: 1

Candidate Starts for GodonK_78:

(Start: 1 @39164 has 8 MA's), (6, 39278), (11, 39452), (14, 39620), (15, 39641), (17, 39656), (18, 39659),

Gene: Mareelih_87 Start: 43849, Stop: 44493, Start Num: 1

Candidate Starts for Mareelih_87:

(Start: 1 @43849 has 8 MA's), (3, 43891), (6, 43960), (14, 44296), (16, 44320), (17, 44332), (18, 44335), (19, 44374),

Gene: Mimi_90 Start: 50513, Stop: 51169, Start Num: 1

Candidate Starts for Mimi_90:

(Start: 1 @50513 has 8 MA's), (7, 50696), (10, 50783), (14, 50963), (17, 50999), (18, 51002),

Gene: Patbob_84 Start: 51385, Stop: 52041, Start Num: 1

Candidate Starts for Patbob_84:

(Start: 1 @51385 has 8 MA's), (7, 51568), (10, 51655), (14, 51835), (17, 51871), (18, 51874),

Gene: Phendrix_76 Start: 39032, Stop: 39685, Start Num: 1

Candidate Starts for Phendrix_76:

(Start: 1 @39032 has 8 MA's), (6, 39146), (9, 39245), (11, 39320), (14, 39488), (15, 39509), (17, 39524), (18, 39527),

Gene: Racecar_84 Start: 51166, Stop: 51822, Start Num: 1

Candidate Starts for Racecar_84:

(Start: 1 @51166 has 8 MA's), (7, 51349), (10, 51436), (14, 51616), (17, 51652), (18, 51655),

Gene: SJReid_88 Start: 52426, Stop: 53082, Start Num: 1

Candidate Starts for SJReid_88:

(Start: 1 @52426 has 8 MA's), (2, 52459), (12, 52750), (13, 52762), (14, 52888), (22, 53020), (23, 53026),

Gene: Sixama_83 Start: 44174, Stop: 44824, Start Num: 1

Candidate Starts for Sixama_83:

(Start: 1 @44174 has 8 MA's), (3, 44219), (4, 44246), (6, 44288), (8, 44363), (10, 44444), (14, 44627), (16, 44651), (17, 44663), (18, 44666),

Gene: Talia1610_87 Start: 50531, Stop: 51187, Start Num: 1

Candidate Starts for Talia1610_87:

(Start: 1 @50531 has 8 MA's), (7, 50714), (10, 50801), (14, 50981), (17, 51017), (18, 51020),