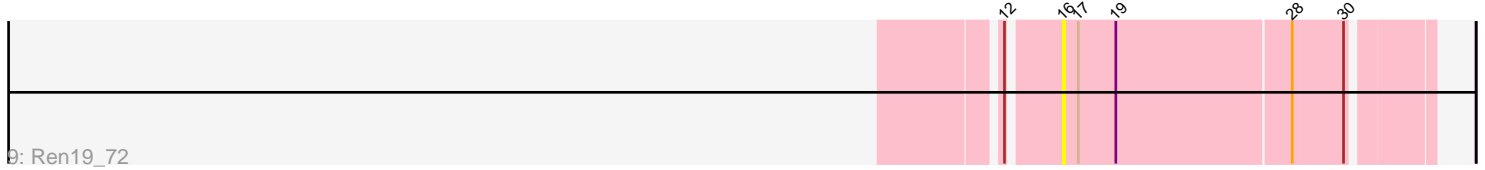
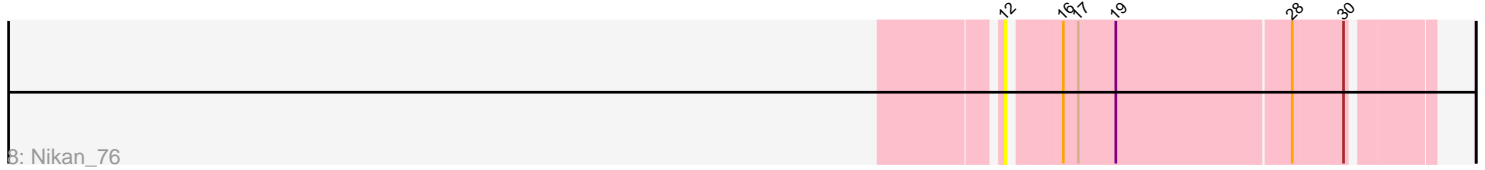
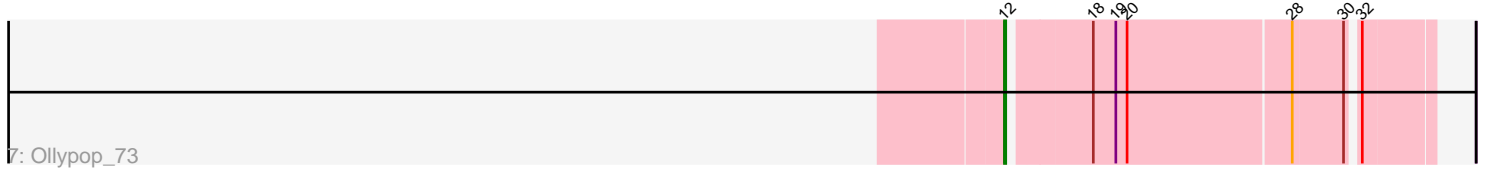
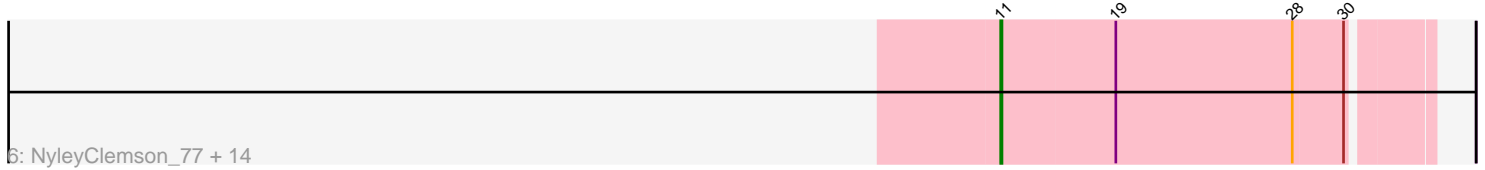
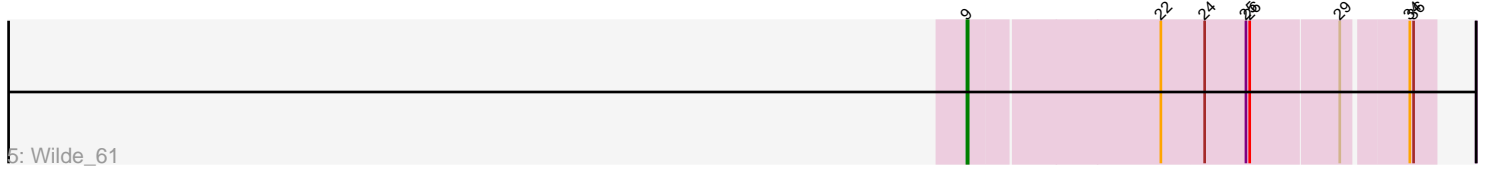
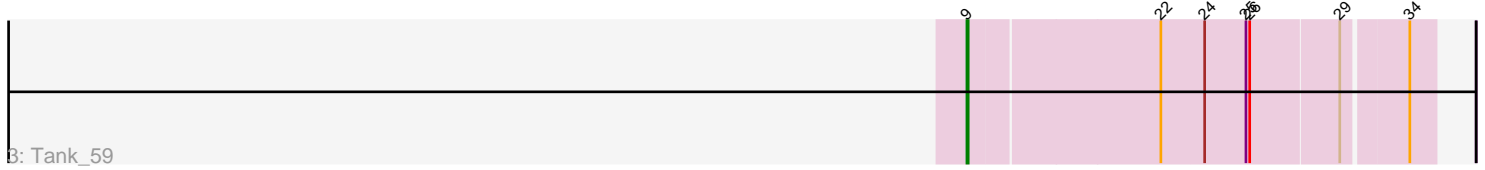
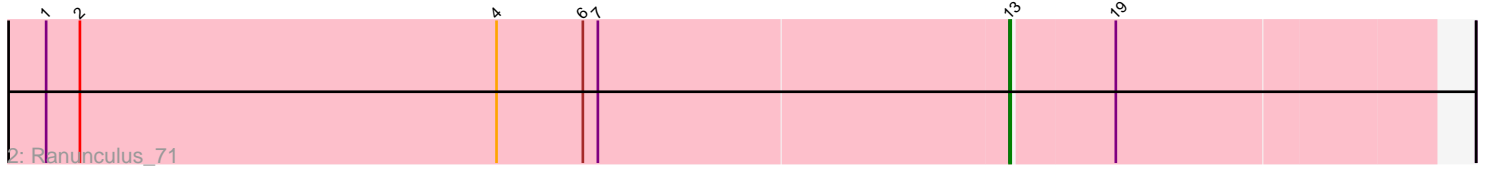
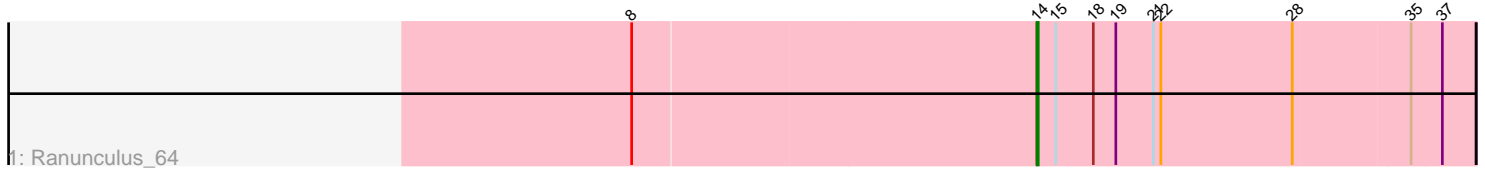


Pham 311988



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 311988 Report

This analysis was run 06/27/26 on database version 652.

Pham number 311988 has 23 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Ranunculus_64
- Track 2 : Ranunculus_71
- Track 3 : Tank_59
- Track 4 : Rizwana_59
- Track 5 : Wilde_61
- Track 6 : NyleyClemson_77, Beagle_79, DogYard_78, Pureglobe5_77, Forrestell_78, MellowYellow_79, Pointis_75, RazzB_78, Popstraw_74, Hive_74, Odyssey395_79, PhuzzTulsa_76, Kubulix_78, BetaFish_78, RIPWilbur_77
- Track 7 : Ollypop_73
- Track 8 : Nikan_76
- Track 9 : Ren19_72

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 11 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beagle_79, BetaFish_78, DogYard_78, Forrestell_78, Hive_74, Kubulix_78, MellowYellow_79, NyleyClemson_77, Odyssey395_79, PhuzzTulsa_76, Pointis_75, Popstraw_74, Pureglobe5_77, RIPWilbur_77, RazzB_78,

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

-

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

- Nikan_76, Ollypop_73, Ranunculus_64, Ranunculus_71, Ren19_72, Rizwana_59, Tank_59, Wilde_61,

Summary by start number:

Start 9:

- Found in 2 of 23 (8.7%) of genes in pham
- Manual Annotations of this start: 2 of 17

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Tank_59 (AP1), Wilde_61 (AP1),

Start 10:

- Found in 1 of 23 (4.3%) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Rizwana_59 (AP1),

Start 11:

- Found in 15 of 23 (65.2%) of genes in pham
- Manual Annotations of this start: 11 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beagle_79 (AP2), BetaFish_78 (AP2), DogYard_78 (AP2), Forrestell_78 (AP2), Hive_74 (AP2), Kubulix_78 (AP2), MellowYellow_79 (AP2), NyleyClemson_77 (AP2), Odyssey395_79 (AP2), PhuzzTulsa_76 (AP2), Pointis_75 (AP2), Popstraw_74 (AP2), Pureglobe5_77 (AP2), RIPWilbur_77 (AP2), RazzB_78 (AP2),

Start 12:

- Found in 3 of 23 (13.0%) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Nikan_76 (AP2), Ollypop_73 (AP2),

Start 13:

- Found in 1 of 23 (4.3%) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ranunculus_71 (AP),

Start 14:

- Found in 1 of 23 (4.3%) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ranunculus_64 (AP),

Start 16:

- Found in 2 of 23 (8.7%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Ren19_72 (AP2),

Summary by clusters:

There are 3 clusters represented in this pham: AP2, AP, AP1,

Info for manual annotations of cluster AP:

- Start number 13 was manually annotated 1 time for cluster AP.
- Start number 14 was manually annotated 1 time for cluster AP.

Info for manual annotations of cluster AP1:

- Start number 9 was manually annotated 2 times for cluster AP1.

- Start number 10 was manually annotated 1 time for cluster AP1.

Info for manual annotations of cluster AP2:

- Start number 11 was manually annotated 11 times for cluster AP2.
- Start number 12 was manually annotated 1 time for cluster AP2.

Gene Information:

Gene: Beagle_79 Start: 46458, Stop: 46129, Start Num: 11

Candidate Starts for Beagle_79:

(Start: 11 @46458 has 11 MA's), (19, 46368), (28, 46227), (30, 46188),

Gene: BetaFish_78 Start: 47187, Stop: 46858, Start Num: 11

Candidate Starts for BetaFish_78:

(Start: 11 @47187 has 11 MA's), (19, 47097), (28, 46956), (30, 46917),

Gene: DogYard_78 Start: 46674, Stop: 46345, Start Num: 11

Candidate Starts for DogYard_78:

(Start: 11 @46674 has 11 MA's), (19, 46584), (28, 46443), (30, 46404),

Gene: Forrestell_78 Start: 45913, Stop: 45584, Start Num: 11

Candidate Starts for Forrestell_78:

(Start: 11 @45913 has 11 MA's), (19, 45823), (28, 45682), (30, 45643),

Gene: Hive_74 Start: 46454, Stop: 46125, Start Num: 11

Candidate Starts for Hive_74:

(Start: 11 @46454 has 11 MA's), (19, 46364), (28, 46223), (30, 46184),

Gene: Kubulix_78 Start: 46344, Stop: 46015, Start Num: 11

Candidate Starts for Kubulix_78:

(Start: 11 @46344 has 11 MA's), (19, 46254), (28, 46113), (30, 46074),

Gene: MellowYellow_79 Start: 46586, Stop: 46257, Start Num: 11

Candidate Starts for MellowYellow_79:

(Start: 11 @46586 has 11 MA's), (19, 46496), (28, 46355), (30, 46316),

Gene: Nikan_76 Start: 46486, Stop: 46178, Start Num: 12

Candidate Starts for Nikan_76:

(Start: 12 @46486 has 1 MA's), (16, 46453), (17, 46441), (19, 46411), (28, 46276), (30, 46237),

Gene: NyleyClemson_77 Start: 46201, Stop: 45872, Start Num: 11

Candidate Starts for NyleyClemson_77:

(Start: 11 @46201 has 11 MA's), (19, 46111), (28, 45970), (30, 45931),

Gene: Odyssey395_79 Start: 46695, Stop: 46366, Start Num: 11

Candidate Starts for Odyssey395_79:

(Start: 11 @46695 has 11 MA's), (19, 46605), (28, 46464), (30, 46425),

Gene: Ollypop_73 Start: 46710, Stop: 46402, Start Num: 12

Candidate Starts for Ollypop_73:

(Start: 12 @46710 has 1 MA's), (18, 46653), (19, 46635), (20, 46626), (28, 46500), (30, 46461), (32, 46455),

Gene: PhuzzTulsa_76 Start: 46889, Stop: 46560, Start Num: 11
Candidate Starts for PhuzzTulsa_76:
(Start: 11 @46889 has 11 MA's), (19, 46799), (28, 46658), (30, 46619),

Gene: Pointis_75 Start: 46271, Stop: 45942, Start Num: 11
Candidate Starts for Pointis_75:
(Start: 11 @46271 has 11 MA's), (19, 46181), (28, 46040), (30, 46001),

Gene: Popstraw_74 Start: 46433, Stop: 46104, Start Num: 11
Candidate Starts for Popstraw_74:
(Start: 11 @46433 has 11 MA's), (19, 46343), (28, 46202), (30, 46163),

Gene: Pureglobe5_77 Start: 46715, Stop: 46386, Start Num: 11
Candidate Starts for Pureglobe5_77:
(Start: 11 @46715 has 11 MA's), (19, 46625), (28, 46484), (30, 46445),

Gene: RIPWilbur_77 Start: 46235, Stop: 45906, Start Num: 11
Candidate Starts for RIPWilbur_77:
(Start: 11 @46235 has 11 MA's), (19, 46145), (28, 46004), (30, 45965),

Gene: Ranunculus_64 Start: 46404, Stop: 46060, Start Num: 14
Candidate Starts for Ranunculus_64:
(8, 46722), (Start: 14 @46404 has 1 MA's), (15, 46389), (18, 46359), (19, 46341), (21, 46311), (22, 46305), (28, 46200), (35, 46110), (37, 46086),

Gene: Ranunculus_71 Start: 48849, Stop: 48523, Start Num: 13
Candidate Starts for Ranunculus_71:
(1, 49614), (2, 49587), (4, 49254), (6, 49185), (7, 49173), (Start: 13 @48849 has 1 MA's), (19, 48771),

Gene: RazzB_78 Start: 46323, Stop: 45994, Start Num: 11
Candidate Starts for RazzB_78:
(Start: 11 @46323 has 11 MA's), (19, 46233), (28, 46092), (30, 46053),

Gene: Ren19_72 Start: 46048, Stop: 45773, Start Num: 16
Candidate Starts for Ren19_72:
(Start: 12 @46081 has 1 MA's), (16, 46048), (17, 46036), (19, 46006), (28, 45871), (30, 45832),

Gene: Rizwana_59 Start: 43169, Stop: 42840, Start Num: 10
Candidate Starts for Rizwana_59:
(3, 43586), (4, 43550), (5, 43484), (6, 43481), (Start: 10 @43169 has 1 MA's), (18, 43109), (23, 43043), (27, 42983), (31, 42902), (33, 42872),

Gene: Tank_59 Start: 43243, Stop: 42890, Start Num: 9
Candidate Starts for Tank_59:
(Start: 9 @43243 has 2 MA's), (22, 43096), (24, 43063), (25, 43030), (26, 43027), (29, 42958), (34, 42910),

Gene: Wilde_61 Start: 43542, Stop: 43189, Start Num: 9
Candidate Starts for Wilde_61:

(Start: 9 @43542 has 2 MA's), (22, 43395), (24, 43362), (25, 43329), (26, 43326), (29, 43257), (34, 43209), (36, 43206),