Pham 272176

1: Ranunculus_71

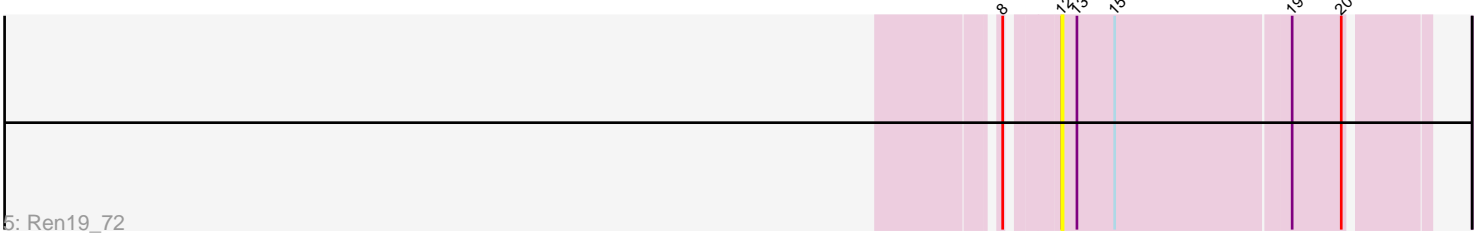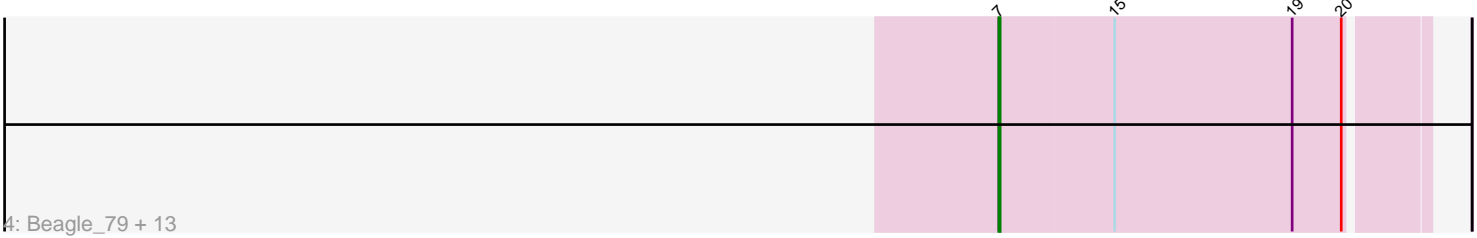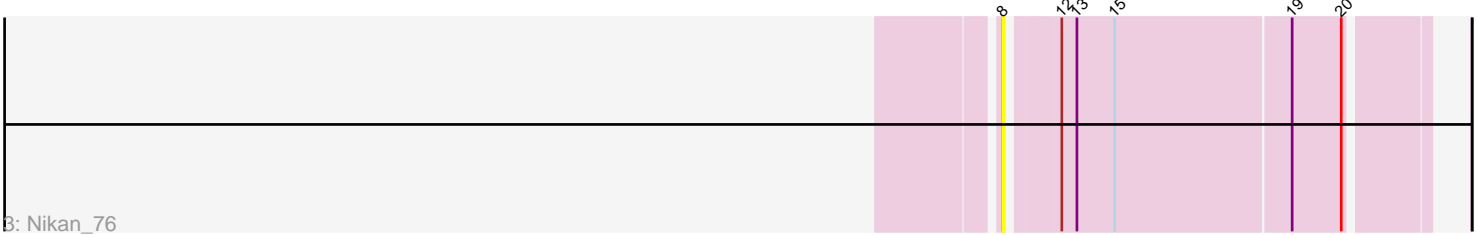2: Ranunculus_64

3: Nikan_76

4: Beagle_79 + 13

5: Ren19_72

6: Ollypop_73

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 272176 Report

This analysis was run 02/07/26 on database version 634.

Pham number 272176 has 19 members, 7 are drafts.

Phages represented in each track:
• Track 1 : Ranunculus_71
• Track 2 : Ranunculus_64
• Track 3 : Nikan_76
• Track 4 : Beagle_79, DogYard_78, PhuzzTulsa_76, Popstraw_74, Hive_74, Forrestell_78, NyleyClemson_78, MellowYellow_79, Kubulix_78, BetaFish_78, Pointis_75, Odyssey395_79, Pureglobe5_77, RazzB_78
• Track 5 : Ren19_72
• Track 6 : Ollypop_73

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

The start number called the most often in the published annotations is 7, it was called in 9 of the 12 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_78, Odyssey395_79, PhuzzTulsa_76, Pointis_75, Popstraw_74, Pureglobe5_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,

Summary by start number:

Start 7:
• Found in 14 of 19 (73.7%) of genes in pham
• Manual Annotations of this start: 9 of 12
• 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_78 (AP2), Odyssey395_79 (AP2),

PhuzzTulsa_76 (AP2), Pointis_75 (AP2), Popstraw_74 (AP2), Pureglobe5_77 (AP2), RazzB_78 (AP2),

Start 8:
• Found in 3 of 19 (15.8%) of genes in pham
• Manual Annotations of this start: 1 of 12
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Nikan_76 (AP2), Ollypop_73 (AP2),

Start 9:
• Found in 1 of 19 (5.3%) of genes in pham
• Manual Annotations of this start: 1 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ranunculus_71 (AP),

Start 10:
• Found in 1 of 19 (5.3%) of genes in pham
• Manual Annotations of this start: 1 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ranunculus_64 (AP),

Start 12:
• Found in 2 of 19 (10.5%) 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 2 clusters represented in this pham: AP2, AP,

Info for manual annotations of cluster AP:
•Start number 9 was manually annotated 1 time for cluster AP.
•Start number 10 was manually annotated 1 time for cluster AP.

Info for manual annotations of cluster AP2:
•Start number 7 was manually annotated 9 times for cluster AP2.
•Start number 8 was manually annotated 1 time for cluster AP2.

Gene Information:
Gene: Beagle_79 Start: 46458, Stop: 46129, Start Num: 7
Candidate Starts for Beagle_79:
(Start: 7 @46458 has 9 MA's), (15, 46368), (19, 46227), (20, 46188),

Gene: BetaFish_78 Start: 47187, Stop: 46858, Start Num: 7
Candidate Starts for BetaFish_78:
(Start: 7 @47187 has 9 MA's), (15, 47097), (19, 46956), (20, 46917),

Gene: DogYard_78 Start: 46674, Stop: 46345, Start Num: 7
Candidate Starts for DogYard_78:

(Start: 7 @46674 has 9 MA's), (15, 46584), (19, 46443), (20, 46404),

Gene: Forrestell_78 Start: 45913, Stop: 45584, Start Num: 7
Candidate Starts for Forrestell_78:
(Start: 7 @45913 has 9 MA's), (15, 45823), (19, 45682), (20, 45643),

Gene: Hive_74 Start: 46454, Stop: 46125, Start Num: 7
Candidate Starts for Hive_74:
(Start: 7 @46454 has 9 MA's), (15, 46364), (19, 46223), (20, 46184),

Gene: Kubulix_78 Start: 46344, Stop: 46015, Start Num: 7
Candidate Starts for Kubulix_78:
(Start: 7 @46344 has 9 MA's), (15, 46254), (19, 46113), (20, 46074),

Gene: MellowYellow_79 Start: 46586, Stop: 46257, Start Num: 7
Candidate Starts for MellowYellow_79:
(Start: 7 @46586 has 9 MA's), (15, 46496), (19, 46355), (20, 46316),

Gene: Nikan_76 Start: 46486, Stop: 46178, Start Num: 8
Candidate Starts for Nikan_76:
(Start: 8 @46486 has 1 MA's), (12, 46453), (13, 46441), (15, 46411), (19, 46276), (20, 46237),

Gene: NyleyClemson_78 Start: 46201, Stop: 45872, Start Num: 7
Candidate Starts for NyleyClemson_78:
(Start: 7 @46201 has 9 MA's), (15, 46111), (19, 45970), (20, 45931),

Gene: Odyssey395_79 Start: 46695, Stop: 46366, Start Num: 7
Candidate Starts for Odyssey395_79:
(Start: 7 @46695 has 9 MA's), (15, 46605), (19, 46464), (20, 46425),

Gene: Ollypop_73 Start: 46710, Stop: 46402, Start Num: 8
Candidate Starts for Ollypop_73:
(Start: 8 @46710 has 1 MA's), (14, 46653), (15, 46635), (16, 46626), (19, 46500), (20, 46461), (21, 46455),

Gene: PhuzzTulsa_76 Start: 46889, Stop: 46560, Start Num: 7
Candidate Starts for PhuzzTulsa_76:
(Start: 7 @46889 has 9 MA's), (15, 46799), (19, 46658), (20, 46619),

Gene: Pointis_75 Start: 46271, Stop: 45942, Start Num: 7
Candidate Starts for Pointis_75:
(Start: 7 @46271 has 9 MA's), (15, 46181), (19, 46040), (20, 46001),

Gene: Popstraw_74 Start: 46433, Stop: 46104, Start Num: 7
Candidate Starts for Popstraw_74:
(Start: 7 @46433 has 9 MA's), (15, 46343), (19, 46202), (20, 46163),

Gene: Pureglobe5_77 Start: 46715, Stop: 46386, Start Num: 7
Candidate Starts for Pureglobe5_77:
(Start: 7 @46715 has 9 MA's), (15, 46625), (19, 46484), (20, 46445),

Gene: Ranunculus_71 Start: 48849, Stop: 48523, Start Num: 9
Candidate Starts for Ranunculus_71:

(1, 49614), (2, 49587), (3, 49254), (4, 49185), (5, 49173), (Start: 9 @48849 has 1 MA's), (15, 48771),

Gene: Ranunculus_64 Start: 46404, Stop: 46060, Start Num: 10
Candidate Starts for Ranunculus_64:
(6, 46722), (Start: 10 @46404 has 1 MA's), (11, 46389), (14, 46359), (15, 46341), (17, 46311), (18, 46305), (19, 46200), (22, 46110), (23, 46086),

Gene: RazzB_78 Start: 46323, Stop: 45994, Start Num: 7
Candidate Starts for RazzB_78:
(Start: 7 @46323 has 9 MA's), (15, 46233), (19, 46092), (20, 46053),

Gene: Ren19_72 Start: 46048, Stop: 45773, Start Num: 12
Candidate Starts for Ren19_72:
(Start: 8 @46081 has 1 MA's), (12, 46048), (13, 46036), (15, 46006), (19, 45871), (20, 45832),