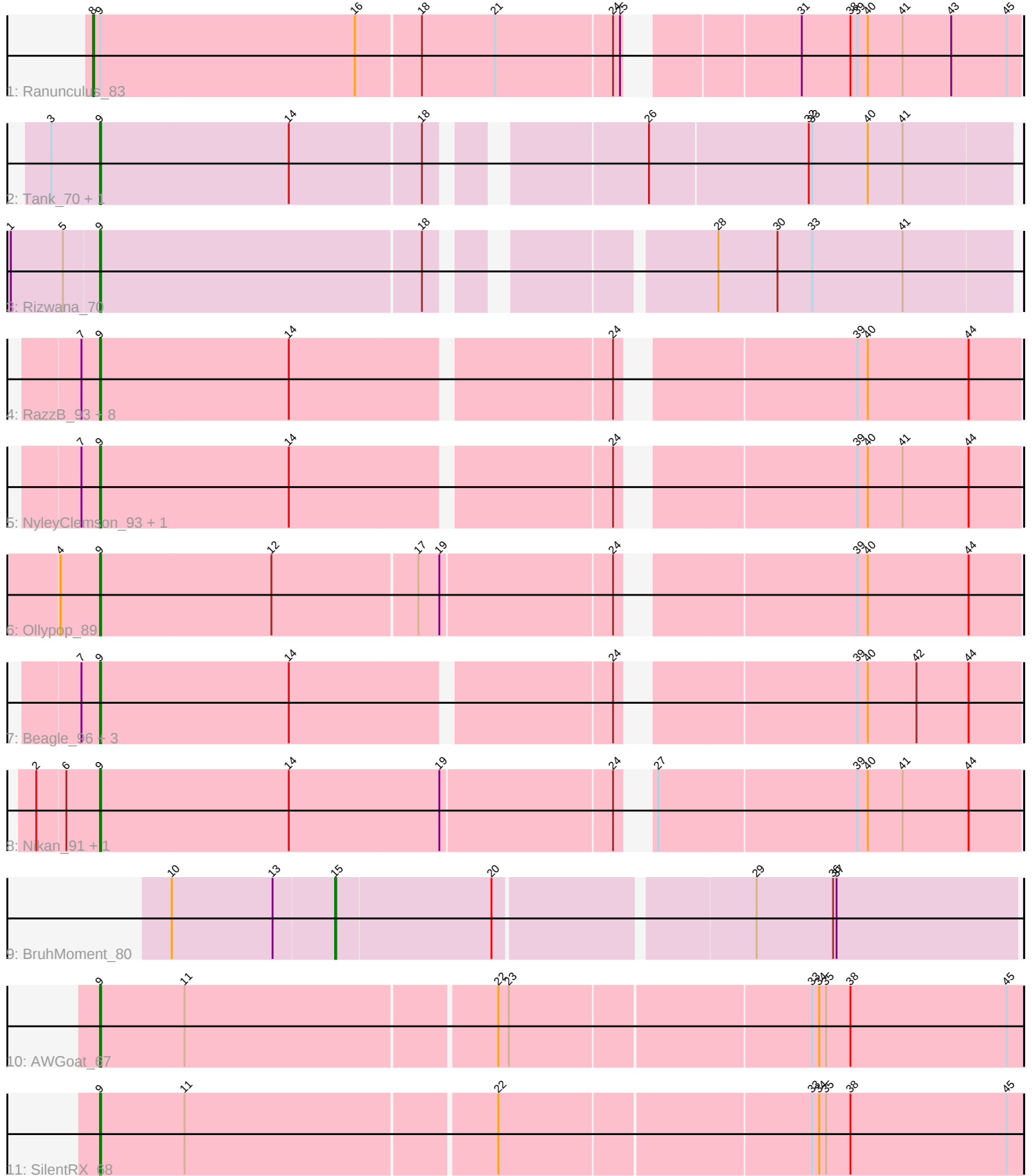


Pham 321721



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 321721 Report

This analysis was run 09/05/26 on database version 662.

Pham number 321721 has 25 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Ranunculus_83
- Track 2 : Tank_70, Wilde_72
- Track 3 : Rizwana_70
- Track 4 : RazzB_93, Popstraw_90, Hive_91, Forrestell_93, Pureglobe5_94, PhuzzTulsa_92, Kubulix_94, RIPWilbur_93, Pointis_91
- Track 5 : NyleyClemson_93, MellowYellow_95
- Track 6 : Ollypop_89
- Track 7 : Beagle_96, Odyssey395_94, BetaFish_95, DogYard_94
- Track 8 : Nikan_91, Ren19_87
- Track 9 : BruhMoment_80
- Track 10 : AWGoat_67
- Track 11 : SilentRX_68

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

The start number called the most often in the published annotations is 9, it was called in 19 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AWGoat_67, Beagle_96, BetaFish_95, DogYard_94, Forrestell_93, Hive_91, Kubulix_94, MellowYellow_95, Nikan_91, NyleyClemson_93, Odyssey395_94, Ollypop_89, PhuzzTulsa_92, Pointis_91, Popstraw_90, Pureglobe5_94, RIPWilbur_93, RazzB_93, Ren19_87, Rizwana_70, SilentRX_68, Tank_70, Wilde_72,

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

- Ranunculus_83,

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

- BruhMoment_80,

Summary by start number:

Start 8:

- Found in 1 of 25 (4.0%) of genes in pham
- Manual Annotations of this start: 1 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ranunculus_83 (AP),

Start 9:

- Found in 24 of 25 (96.0%) of genes in pham
- Manual Annotations of this start: 19 of 21
- Called 95.8% of time when present
- Phage (with cluster) where this start called: AWGoat_67 (AP4), Beagle_96 (AP2), BetaFish_95 (AP2), DogYard_94 (AP2), Forrestell_93 (AP2), Hive_91 (AP2), Kubulix_94 (AP2), MellowYellow_95 (AP2), Nikan_91 (AP2), NyleyClemson_93 (AP2), Odyssey395_94 (AP2), Ollypop_89 (AP2), PhuzzTulsa_92 (AP2), Pointis_91 (AP2), Popstraw_90 (AP2), Pureglobe5_94 (AP2), RIPWilbur_93 (AP2), RazzB_93 (AP2), Ren19_87 (AP2), Rizwana_70 (AP1), SilentRX_68 (AP4), Tank_70 (AP1), Wilde_72 (AP1),

Start 15:

- Found in 1 of 25 (4.0%) of genes in pham
- Manual Annotations of this start: 1 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BruhMoment_80 (AP3),

Summary by clusters:

There are 5 clusters represented in this pham: AP2, AP3, AP1, AP4, AP,

Info for manual annotations of cluster AP:

- Start number 8 was manually annotated 1 time for cluster AP.

Info for manual annotations of cluster AP1:

- Start number 9 was manually annotated 3 times for cluster AP1.

Info for manual annotations of cluster AP2:

- Start number 9 was manually annotated 14 times for cluster AP2.

Info for manual annotations of cluster AP3:

- Start number 15 was manually annotated 1 time for cluster AP3.

Info for manual annotations of cluster AP4:

- Start number 9 was manually annotated 2 times for cluster AP4.

Gene Information:

Gene: AWGoat_67 Start: 48654, Stop: 47878, Start Num: 9

Candidate Starts for AWGoat_67:

(Start: 9 @48654 has 19 MA's), (11, 48582), (22, 48321), (23, 48312), (33, 48060), (34, 48054), (35, 48048), (38, 48027), (45, 47892),

Gene: Beagle_96 Start: 56279, Stop: 55536, Start Num: 9

Candidate Starts for Beagle_96:

(7, 56294), (Start: 9 @56279 has 19 MA's), (14, 56117), (24, 55856), (39, 55676), (40, 55667), (42, 55625), (44, 55580),

Gene: BetaFish_95 Start: 56494, Stop: 55751, Start Num: 9

Candidate Starts for BetaFish_95:

(7, 56509), (Start: 9 @56494 has 19 MA's), (14, 56332), (24, 56071), (39, 55891), (40, 55882), (42, 55840), (44, 55795),

Gene: BruhMoment_80 Start: 53540, Stop: 52974, Start Num: 15

Candidate Starts for BruhMoment_80:

(10, 53678), (13, 53591), (Start: 15 @53540 has 1 MA's), (20, 53408), (29, 53198), (36, 53132), (37, 53129),

Gene: DogYard_94 Start: 55984, Stop: 55241, Start Num: 9

Candidate Starts for DogYard_94:

(7, 55999), (Start: 9 @55984 has 19 MA's), (14, 55822), (24, 55561), (39, 55381), (40, 55372), (42, 55330), (44, 55285),

Gene: Forrestell_93 Start: 54688, Stop: 53945, Start Num: 9

Candidate Starts for Forrestell_93:

(7, 54703), (Start: 9 @54688 has 19 MA's), (14, 54526), (24, 54265), (39, 54085), (40, 54076), (44, 53989),

Gene: Hive_91 Start: 55967, Stop: 55224, Start Num: 9

Candidate Starts for Hive_91:

(7, 55982), (Start: 9 @55967 has 19 MA's), (14, 55805), (24, 55544), (39, 55364), (40, 55355), (44, 55268),

Gene: Kubulix_94 Start: 55651, Stop: 54908, Start Num: 9

Candidate Starts for Kubulix_94:

(7, 55666), (Start: 9 @55651 has 19 MA's), (14, 55489), (24, 55228), (39, 55048), (40, 55039), (44, 54952),

Gene: MellowYellow_95 Start: 55893, Stop: 55150, Start Num: 9

Candidate Starts for MellowYellow_95:

(7, 55908), (Start: 9 @55893 has 19 MA's), (14, 55731), (24, 55470), (39, 55290), (40, 55281), (41, 55251), (44, 55194),

Gene: Nikan_91 Start: 55647, Stop: 54892, Start Num: 9

Candidate Starts for Nikan_91:

(2, 55698), (6, 55674), (Start: 9 @55647 has 19 MA's), (14, 55485), (19, 55356), (24, 55212), (27, 55200), (39, 55032), (40, 55023), (41, 54993), (44, 54936),

Gene: NyleyClemson_93 Start: 55511, Stop: 54768, Start Num: 9

Candidate Starts for NyleyClemson_93:

(7, 55526), (Start: 9 @55511 has 19 MA's), (14, 55349), (24, 55088), (39, 54908), (40, 54899), (41, 54869), (44, 54812),

Gene: Odyssey395_94 Start: 55673, Stop: 54930, Start Num: 9

Candidate Starts for Odyssey395_94:

(7, 55688), (Start: 9 @55673 has 19 MA's), (14, 55511), (24, 55250), (39, 55070), (40, 55061), (42, 55019), (44, 54974),

Gene: Ollypop_89 Start: 56487, Stop: 55735, Start Num: 9

Candidate Starts for Ollypop_89:

(4, 56520), (Start: 9 @56487 has 19 MA's), (12, 56340), (17, 56217), (19, 56199), (24, 56055), (39, 55875), (40, 55866), (44, 55779),

Gene: PhuzzTulsa_92 Start: 56121, Stop: 55378, Start Num: 9

Candidate Starts for PhuzzTulsa_92:

(7, 56136), (Start: 9 @56121 has 19 MA's), (14, 55959), (24, 55698), (39, 55518), (40, 55509), (44, 55422),

Gene: Pointis_91 Start: 55569, Stop: 54826, Start Num: 9

Candidate Starts for Pointis_91:

(7, 55584), (Start: 9 @55569 has 19 MA's), (14, 55407), (24, 55146), (39, 54966), (40, 54957), (44, 54870),

Gene: Popstraw_90 Start: 55746, Stop: 55003, Start Num: 9

Candidate Starts for Popstraw_90:

(7, 55761), (Start: 9 @55746 has 19 MA's), (14, 55584), (24, 55323), (39, 55143), (40, 55134), (44, 55047),

Gene: Pureglobe5_94 Start: 56228, Stop: 55485, Start Num: 9

Candidate Starts for Pureglobe5_94:

(7, 56243), (Start: 9 @56228 has 19 MA's), (14, 56066), (24, 55805), (39, 55625), (40, 55616), (44, 55529),

Gene: RIPWilbur_93 Start: 55548, Stop: 54805, Start Num: 9

Candidate Starts for RIPWilbur_93:

(7, 55563), (Start: 9 @55548 has 19 MA's), (14, 55386), (24, 55125), (39, 54945), (40, 54936), (44, 54849),

Gene: Ranunculus_83 Start: 56472, Stop: 55714, Start Num: 8

Candidate Starts for Ranunculus_83:

(Start: 8 @56472 has 1 MA's), (Start: 9 @56466 has 19 MA's), (16, 56247), (18, 56193), (21, 56130), (24, 56031), (25, 56025), (31, 55902), (38, 55860), (39, 55854), (40, 55845), (41, 55815), (43, 55773), (45, 55725),

Gene: RazzB_93 Start: 55100, Stop: 54357, Start Num: 9

Candidate Starts for RazzB_93:

(7, 55115), (Start: 9 @55100 has 19 MA's), (14, 54938), (24, 54677), (39, 54497), (40, 54488), (44, 54401),

Gene: Ren19_87 Start: 54672, Stop: 53917, Start Num: 9

Candidate Starts for Ren19_87:

(2, 54723), (6, 54699), (Start: 9 @54672 has 19 MA's), (14, 54510), (19, 54381), (24, 54237), (27, 54225), (39, 54057), (40, 54048), (41, 54018), (44, 53961),

Gene: Rizwana_70 Start: 50521, Stop: 49793, Start Num: 9

Candidate Starts for Rizwana_70:

(1, 50596), (5, 50551), (Start: 9 @50521 has 19 MA's), (18, 50248), (28, 50044), (30, 49993), (33, 49963), (41, 49885),

Gene: SilentRX_68 Start: 49464, Stop: 48688, Start Num: 9

Candidate Starts for SilentRX_68:

(Start: 9 @49464 has 19 MA's), (11, 49392), (22, 49131), (33, 48870), (34, 48864), (35, 48858), (38, 48837), (45, 48702),

Gene: Tank_70 Start: 50435, Stop: 49698, Start Num: 9

Candidate Starts for Tank_70:

(3, 50477), (Start: 9 @50435 has 19 MA's), (14, 50273), (18, 50162), (26, 50006), (32, 49871), (33, 49868), (40, 49820), (41, 49790),

Gene: Wilde_72 Start: 50788, Stop: 50051, Start Num: 9

Candidate Starts for Wilde_72:

(3, 50830), (Start: 9 @50788 has 19 MA's), (14, 50626), (18, 50515), (26, 50359), (32, 50224), (33, 50221), (40, 50173), (41, 50143),