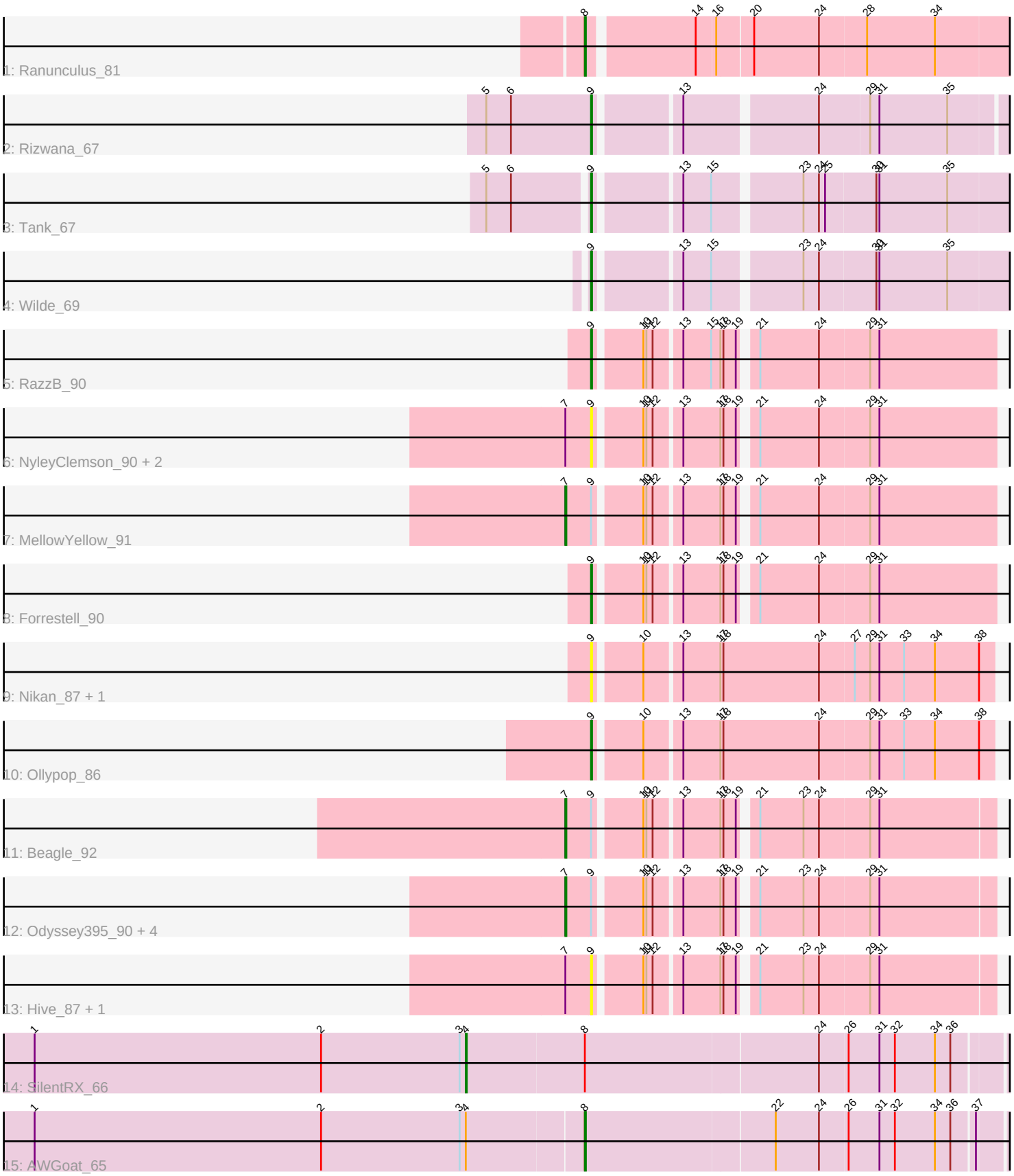
Pham 284157


1: Ranunculus_81
2: Rizwana_67
3: Tank_67
4: Wilde_69
5: RazzB_90
6: NyleyClemson_90 + 2
7: MellowYellow_91
8: Forrestell_90
9: Nikan_87 + 1
10: Ollypop_86
11: Beagle_92
12: Odyssey395_90 + 4
13: Hive_87 + 1
14: SilentRX_66
15: AWGoat_65

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 284157 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284157 has 23 members, 7 are drafts.

Phages represented in each track:
• Track 1 : Ranunculus_81
• Track 2 : Rizwana_67
• Track 3 : Tank_67
• Track 4 : Wilde_69
• Track 5 : RazzB_90
• Track 6 : NyleyClemson_90, PhuzzTulsa_88, Popstraw_86
• Track 7 : MellowYellow_91
• Track 8 : Forrestell_90
• Track 9 : Nikan_87, Ren19_83
• Track 10 : Ollypop_86
• Track 11 : Beagle_92
• Track 12 : Odyssey395_90, Pointis_87, Pureglobe5_90, DogYard_90, Kubulix_90
• Track 13 : Hive_87, BetaFish_90
• Track 14 : SilentRX_66
• Track 15 : AWGoat_65

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 7 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Beagle_92, DogYard_90, Kubulix_90, MellowYellow_91, Odyssey395_90, Pointis_87, Pureglobe5_90,

Genes that have the "Most Annotated" start but do not call it:
• BetaFish_90, Hive_87, NyleyClemson_90, PhuzzTulsa_88, Popstraw_86,

Genes that do not have the "Most Annotated" start:
• AWGoat_65, Forrestell_90, Nikan_87, Ollypop_86, Ranunculus_81, RazzB_90, Ren19_83, Rizwana_67, SilentRX_66, Tank_67, Wilde_69,

Summary by start number:

Start 4:
• Found in 2 of 23 (8.7%) of genes in pham
• Manual Annotations of this start: 1 of 16
• Called 50.0% of time when present
• Phage (with cluster) where this start called: SilentRX_66 (AP4),

Start 7:
• Found in 12 of 23 (52.2%) of genes in pham
• Manual Annotations of this start: 7 of 16
• Called 58.3% of time when present
• Phage (with cluster) where this start called: Beagle_92 (AP2), DogYard_90 (AP2), Kubulix_90 (AP2), MellowYellow_91 (AP2), Odyssey395_90 (AP2), Pointis_87 (AP2), Pureglobe5_90 (AP2),

Start 8:
• Found in 3 of 23 (13.0%) of genes in pham
• Manual Annotations of this start: 2 of 16
• Called 66.7% of time when present
• Phage (with cluster) where this start called: AWGoat_65 (AP4), Ranunculus_81 (AP),

Start 9:
• Found in 20 of 23 (87.0%) of genes in pham
• Manual Annotations of this start: 6 of 16
• Called 65.0% of time when present
• Phage (with cluster) where this start called: BetaFish_90 (AP2), Forrestell_90 (AP2), Hive_87 (AP2), Nikan_87 (AP2), NyleyClemson_90 (AP2), Ollypop_86 (AP2), PhuzzTulsa_88 (AP2), Popstraw_86 (AP2), RazzB_90 (AP2), Ren19_83 (AP2), Rizwana_67 (AP1), Tank_67 (AP1), Wilde_69 (AP1),

Summary by clusters:

There are 4 clusters represented in this pham: AP2, AP, AP1, AP4,

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 7 was manually annotated 7 times for cluster AP2.
•Start number 9 was manually annotated 3 times for cluster AP2.

Info for manual annotations of cluster AP4:
•Start number 4 was manually annotated 1 time for cluster AP4.
•Start number 8 was manually annotated 1 time for cluster AP4.

Gene Information:

Gene: AWGoat_65 Start: 46189, Stop: 45791, Start Num: 8

Candidate Starts for AWGoat_65:
(1, 46720), (2, 46441), (3, 46306), (Start: 4 @46300 has 1 MA's), (Start: 8 @46189 has 2 MA's), (22, 46009), (24, 45967), (26, 45940), (31, 45910), (32, 45895), (34, 45856), (36, 45841), (37, 45820),

Gene: Beagle_92 Start: 52878, Stop: 52492, Start Num: 7
Candidate Starts for Beagle_92:
(Start: 7 @52878 has 7 MA's), (Start: 9 @52854 has 6 MA's), (10, 52812), (11, 52809), (12, 52803), (13, 52779), (17, 52743), (18, 52740), (19, 52728), (21, 52716), (23, 52674), (24, 52659), (29, 52611), (31, 52602),

Gene: BetaFish_90 Start: 53069, Stop: 52707, Start Num: 9
Candidate Starts for BetaFish_90:
(Start: 7 @53093 has 7 MA's), (Start: 9 @53069 has 6 MA's), (10, 53027), (11, 53024), (12, 53018), (13, 52994), (17, 52958), (18, 52955), (19, 52943), (21, 52931), (23, 52889), (24, 52874), (29, 52826), (31, 52817),

Gene: DogYard_90 Start: 52583, Stop: 52197, Start Num: 7
Candidate Starts for DogYard_90:
(Start: 7 @52583 has 7 MA's), (Start: 9 @52559 has 6 MA's), (10, 52517), (11, 52514), (12, 52508), (13, 52484), (17, 52448), (18, 52445), (19, 52433), (21, 52421), (23, 52379), (24, 52364), (29, 52316), (31, 52307),

Gene: Forrestell_90 Start: 51805, Stop: 51440, Start Num: 9
Candidate Starts for Forrestell_90:
(Start: 9 @51805 has 6 MA's), (10, 51763), (11, 51760), (12, 51754), (13, 51730), (17, 51694), (18, 51691), (19, 51679), (21, 51667), (24, 51610), (29, 51562), (31, 51553),

Gene: Hive_87 Start: 52539, Stop: 52177, Start Num: 9
Candidate Starts for Hive_87:
(Start: 7 @52563 has 7 MA's), (Start: 9 @52539 has 6 MA's), (10, 52497), (11, 52494), (12, 52488), (13, 52464), (17, 52428), (18, 52425), (19, 52413), (21, 52401), (23, 52359), (24, 52344), (29, 52296), (31, 52287),

Gene: Kubulix_90 Start: 52250, Stop: 51864, Start Num: 7
Candidate Starts for Kubulix_90:
(Start: 7 @52250 has 7 MA's), (Start: 9 @52226 has 6 MA's), (10, 52184), (11, 52181), (12, 52175), (13, 52151), (17, 52115), (18, 52112), (19, 52100), (21, 52088), (23, 52046), (24, 52031), (29, 51983), (31, 51974),

Gene: MellowYellow_91 Start: 52495, Stop: 52106, Start Num: 7
Candidate Starts for MellowYellow_91:
(Start: 7 @52495 has 7 MA's), (Start: 9 @52471 has 6 MA's), (10, 52429), (11, 52426), (12, 52420), (13, 52396), (17, 52360), (18, 52357), (19, 52345), (21, 52333), (24, 52276), (29, 52228), (31, 52219),

Gene: Nikan_87 Start: 52219, Stop: 51845, Start Num: 9
Candidate Starts for Nikan_87:
(Start: 9 @52219 has 6 MA's), (10, 52177), (13, 52144), (17, 52108), (18, 52105), (24, 52012), (27, 51979), (29, 51964), (31, 51955), (33, 51931), (34, 51901), (38, 51859),

Gene: NyleyClemson_90 Start: 52089, Stop: 51724, Start Num: 9
Candidate Starts for NyleyClemson_90:
(Start: 7 @52113 has 7 MA's), (Start: 9 @52089 has 6 MA's), (10, 52047), (11, 52044), (12, 52038), (13, 52014), (17, 51978), (18, 51975), (19, 51963), (21, 51951), (24, 51894), (29, 51846), (31, 51837),

Gene: Odyssey395_90 Start: 52272, Stop: 51886, Start Num: 7
Candidate Starts for Odyssey395_90:
(Start: 7 @52272 has 7 MA's), (Start: 9 @52248 has 6 MA's), (10, 52206), (11, 52203), (12, 52197), (13, 52173), (17, 52137), (18, 52134), (19, 52122), (21, 52110), (23, 52068), (24, 52053), (29, 52005), (31, 51996),

Gene: Ollypop_86 Start: 53591, Stop: 53217, Start Num: 9
Candidate Starts for Ollypop_86:
(Start: 9 @53591 has 6 MA's), (10, 53549), (13, 53516), (17, 53480), (18, 53477), (24, 53384), (29, 53336), (31, 53327), (33, 53303), (34, 53273), (38, 53231),

Gene: PhuzzTulsa_88 Start: 52696, Stop: 52334, Start Num: 9
Candidate Starts for PhuzzTulsa_88:
(Start: 7 @52720 has 7 MA's), (Start: 9 @52696 has 6 MA's), (10, 52654), (11, 52651), (12, 52645), (13, 52621), (17, 52585), (18, 52582), (19, 52570), (21, 52558), (24, 52501), (29, 52453), (31, 52444),

Gene: Pointis_87 Start: 52168, Stop: 51782, Start Num: 7
Candidate Starts for Pointis_87:
(Start: 7 @52168 has 7 MA's), (Start: 9 @52144 has 6 MA's), (10, 52102), (11, 52099), (12, 52093), (13, 52069), (17, 52033), (18, 52030), (19, 52018), (21, 52006), (23, 51964), (24, 51949), (29, 51901), (31, 51892),

Gene: Popstraw_86 Start: 52318, Stop: 51956, Start Num: 9
Candidate Starts for Popstraw_86:
(Start: 7 @52342 has 7 MA's), (Start: 9 @52318 has 6 MA's), (10, 52276), (11, 52273), (12, 52267), (13, 52243), (17, 52207), (18, 52204), (19, 52192), (21, 52180), (24, 52123), (29, 52075), (31, 52066),

Gene: Pureglobe5_90 Start: 52824, Stop: 52438, Start Num: 7
Candidate Starts for Pureglobe5_90:
(Start: 7 @52824 has 7 MA's), (Start: 9 @52800 has 6 MA's), (10, 52758), (11, 52755), (12, 52749), (13, 52725), (17, 52689), (18, 52686), (19, 52674), (21, 52662), (23, 52620), (24, 52605), (29, 52557), (31, 52548),

Gene: Ranunculus_81 Start: 54003, Stop: 53608, Start Num: 8
Candidate Starts for Ranunculus_81:
(Start: 8 @54003 has 2 MA's), (14, 53907), (16, 53889), (20, 53856), (24, 53793), (28, 53748), (34, 53682),

Gene: RazzB_90 Start: 52215, Stop: 51850, Start Num: 9
Candidate Starts for RazzB_90:
(Start: 9 @52215 has 6 MA's), (10, 52173), (11, 52170), (12, 52164), (13, 52140), (15, 52113), (17, 52104), (18, 52101), (19, 52089), (21, 52077), (24, 52020), (29, 51972), (31, 51963),

Gene: Ren19_83 Start: 51765, Stop: 51391, Start Num: 9
Candidate Starts for Ren19_83:
(Start: 9 @51765 has 6 MA's), (10, 51723), (13, 51690), (17, 51654), (18, 51651), (24, 51558), (27, 51525), (29, 51510), (31, 51501), (33, 51477), (34, 51447), (38, 51405),

Gene: Rizwana_67 Start: 47617, Stop: 47243, Start Num: 9
Candidate Starts for Rizwana_67:
(5, 47719), (6, 47695), (Start: 9 @47617 has 6 MA's), (13, 47542), (24, 47422), (29, 47374), (31, 47365), (35, 47299),

Gene: SilentRX_66 Start: 47110, Stop: 46598, Start Num: 4
Candidate Starts for SilentRX_66:
(1, 47530), (2, 47251), (3, 47116), (Start: 4 @47110 has 1 MA's), (Start: 8 @46996 has 2 MA's), (24, 46774), (26, 46747), (31, 46717), (32, 46702), (34, 46663), (36, 46648),

Gene: Tank_67 Start: 47597, Stop: 47217, Start Num: 9
Candidate Starts for Tank_67:
(5, 47690), (6, 47666), (Start: 9 @47597 has 6 MA's), (13, 47522), (15, 47495), (23, 47417), (24, 47402), (25, 47396), (30, 47348), (31, 47345), (35, 47279),

Gene: Wilde_69 Start: 47896, Stop: 47516, Start Num: 9
Candidate Starts for Wilde_69:
(Start: 9 @47896 has 6 MA's), (13, 47821), (15, 47794), (23, 47716), (24, 47701), (30, 47647), (31, 47644), (35, 47578),