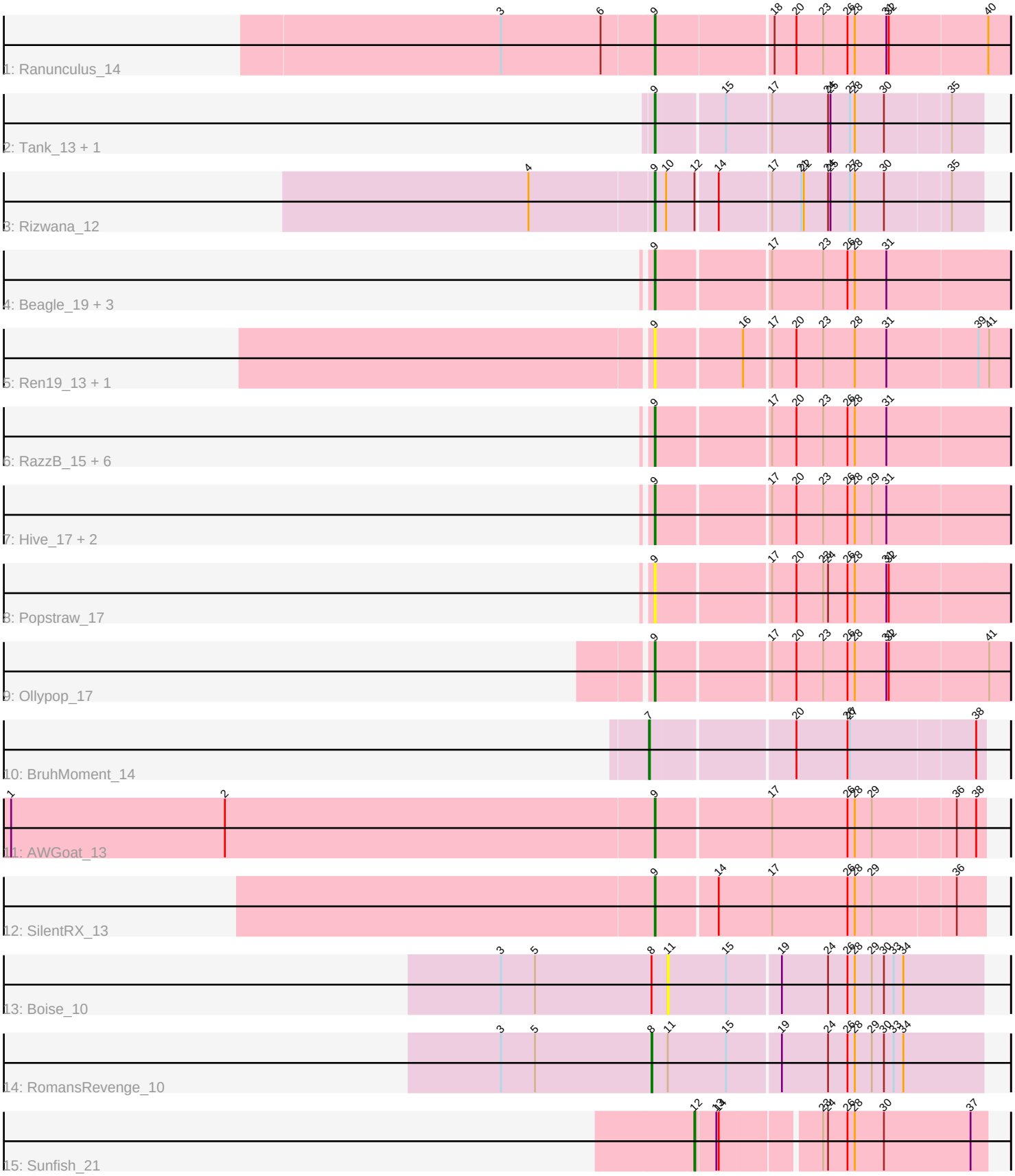
Pham 305236


1: Ranunculus_14
2: Tank_13 + 1
3: Rizwana_12
4: Beagle_19 + 3
5: Ren19_13 + 1
6: RazzB_15 + 6
7: Hive_17 + 2
8: Popstraw_17
9: Ollypop_17
10: BruhMoment_14
11: AWGoat_13
12: SilentRX_13
13: Boise_10
14: RomansRevenge_10
15: Sunfish_21

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 305236 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305236 has 28 members, 8 are drafts.

Phages represented in each track:
• Track 1 : Ranunculus_14
• Track 2 : Tank_13, Wilde_13
• Track 3 : Rizwana_12
• Track 4 : Beagle_19, PhuzzTulsa_16, Kubulix_19, DogYard_18
• Track 5 : Ren19_13, Nikan_15
• Track 6 : RazzB_15, Pointis_18, NyleyClemson_15, Pureglobe5_20, RIPWilbur_16, BetaFish_18, Odyssey395_20
• Track 7 : Hive_17, Forrestell_16, MellowYellow_16
• Track 8 : Popstraw_17
• Track 9 : Ollypop_17
• Track 10 : BruhMoment_14
• Track 11 : AWGoat_13
• Track 12 : SilentRX_13
• Track 13 : Boise_10
• Track 14 : RomansRevenge_10
• Track 15 : Sunfish_21

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 17 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AWGoat_13, Beagle_19, BetaFish_18, DogYard_18, Forrestell_16, Hive_17, Kubulix_19, MellowYellow_16, Nikan_15, NyleyClemson_15, Odyssey395_20, Ollypop_17, PhuzzTulsa_16, Pointis_18, Popstraw_17, Pureglobe5_20, RIPWilbur_16, Ranunculus_14, RazzB_15, Ren19_13, Rizwana_12, SilentRX_13, Tank_13, Wilde_13,

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

Genes that do not have the "Most Annotated" start:
• Boise_10, BruhMoment_14, RomansRevenge_10, Sunfish_21,

Summary by start number:

Start 7:
• Found in 1 of 28 (3.6%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BruhMoment_14 (AP3),

Start 8:
• Found in 2 of 28 (7.1%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 50.0% of time when present
• Phage (with cluster) where this start called: RomansRevenge_10 (FT),

Start 9:
• Found in 24 of 28 (85.7%) of genes in pham
• Manual Annotations of this start: 17 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AWGoat_13 (AP4), Beagle_19 (AP2), BetaFish_18 (AP2), DogYard_18 (AP2), Forrestell_16 (AP2), Hive_17 (AP2), Kubulix_19 (AP2), MellowYellow_16 (AP2), Nikan_15 (AP2), NyleyClemson_15 (AP2), Odyssey395_20 (AP2), Ollypop_17 (AP2), PhuzzTulsa_16 (AP2), Pointis_18 (AP2), Popstraw_17 (AP2), Pureglobe5_20 (AP2), RIPWilbur_16 (AP2), Ranunculus_14 (AP), RazzB_15 (AP2), Ren19_13 (AP2), Rizwana_12 (AP1), SilentRX_13 (AP4), Tank_13 (AP1), Wilde_13 (AP1),

Start 11:
• Found in 2 of 28 (7.1%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Boise_10 (FT),

Start 12:
• Found in 2 of 28 (7.1%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Sunfish_21 (singleton),

Summary by clusters:

There are 7 clusters represented in this pham: singleton, FT, AP2, AP3, AP1, AP4, AP,

Info for manual annotations of cluster AP:
•Start number 9 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 11 times for cluster AP2.

Info for manual annotations of cluster AP3:
•Start number 7 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.

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

Gene Information:

Gene: AWGoat_13 Start: 5541, Stop: 5933, Start Num: 9
Candidate Starts for AWGoat_13:
(1, 4749), (2, 5013), (Start: 9 @5541 has 17 MA's), (17, 5676), (26, 5769), (28, 5778), (29, 5799), (36, 5898), (38, 5922),

Gene: Beagle_19 Start: 6097, Stop: 6516, Start Num: 9
Candidate Starts for Beagle_19:
(Start: 9 @6097 has 17 MA's), (17, 6226), (23, 6289), (26, 6319), (28, 6328), (31, 6367),

Gene: BetaFish_18 Start: 6300, Stop: 6719, Start Num: 9
Candidate Starts for BetaFish_18:
(Start: 9 @6300 has 17 MA's), (17, 6429), (20, 6459), (23, 6492), (26, 6522), (28, 6531), (31, 6570),

Gene: Boise_10 Start: 4103, Stop: 4486, Start Num: 11
Candidate Starts for Boise_10:
(3, 3899), (5, 3941), (Start: 8 @4085 has 1 MA's), (11, 4103), (15, 4175), (19, 4238), (24, 4295), (26, 4319), (28, 4328), (29, 4349), (30, 4364), (33, 4376), (34, 4388),

Gene: BruhMoment_14 Start: 5813, Stop: 6208, Start Num: 7
Candidate Starts for BruhMoment_14:
(Start: 7 @5813 has 1 MA's), (20, 5981), (26, 6044), (27, 6047), (38, 6197),

Gene: DogYard_18 Start: 6167, Stop: 6586, Start Num: 9
Candidate Starts for DogYard_18:
(Start: 9 @6167 has 17 MA's), (17, 6296), (23, 6359), (26, 6389), (28, 6398), (31, 6437),

Gene: Forrestell_16 Start: 5524, Stop: 5943, Start Num: 9
Candidate Starts for Forrestell_16:
(Start: 9 @5524 has 17 MA's), (17, 5653), (20, 5683), (23, 5716), (26, 5746), (28, 5755), (29, 5776), (31, 5794),

Gene: Hive_17 Start: 6181, Stop: 6600, Start Num: 9
Candidate Starts for Hive_17:
(Start: 9 @6181 has 17 MA's), (17, 6310), (20, 6340), (23, 6373), (26, 6403), (28, 6412), (29, 6433), (31, 6451),

Gene: Kubulix_19 Start: 6296, Stop: 6715, Start Num: 9
Candidate Starts for Kubulix_19:
(Start: 9 @6296 has 17 MA's), (17, 6425), (23, 6488), (26, 6518), (28, 6527), (31, 6566),

Gene: MellowYellow_16 Start: 5554, Stop: 5973, Start Num: 9
Candidate Starts for MellowYellow_16:
(Start: 9 @5554 has 17 MA's), (17, 5683), (20, 5713), (23, 5746), (26, 5776), (28, 5785), (29, 5806), (31, 5824),

Gene: Nikan_15 Start: 6009, Stop: 6428, Start Num: 9
Candidate Starts for Nikan_15:
(Start: 9 @6009 has 17 MA's), (16, 6108), (17, 6138), (20, 6168), (23, 6201), (28, 6240), (31, 6279), (39, 6390), (41, 6402),

Gene: NyleyClemson_15 Start: 5496, Stop: 5915, Start Num: 9
Candidate Starts for NyleyClemson_15:
(Start: 9 @5496 has 17 MA's), (17, 5625), (20, 5655), (23, 5688), (26, 5718), (28, 5727), (31, 5766),

Gene: Odyssey395_20 Start: 6298, Stop: 6717, Start Num: 9
Candidate Starts for Odyssey395_20:
(Start: 9 @6298 has 17 MA's), (17, 6427), (20, 6457), (23, 6490), (26, 6520), (28, 6529), (31, 6568),

Gene: Ollypop_17 Start: 5974, Stop: 6393, Start Num: 9
Candidate Starts for Ollypop_17:
(Start: 9 @5974 has 17 MA's), (17, 6103), (20, 6133), (23, 6166), (26, 6196), (28, 6205), (31, 6244), (32, 6247), (41, 6367),

Gene: PhuzzTulsa_16 Start: 6085, Stop: 6504, Start Num: 9
Candidate Starts for PhuzzTulsa_16:
(Start: 9 @6085 has 17 MA's), (17, 6214), (23, 6277), (26, 6307), (28, 6316), (31, 6355),

Gene: Pointis_18 Start: 6296, Stop: 6715, Start Num: 9
Candidate Starts for Pointis_18:
(Start: 9 @6296 has 17 MA's), (17, 6425), (20, 6455), (23, 6488), (26, 6518), (28, 6527), (31, 6566),

Gene: Popstraw_17 Start: 6085, Stop: 6504, Start Num: 9
Candidate Starts for Popstraw_17:
(Start: 9 @6085 has 17 MA's), (17, 6214), (20, 6244), (23, 6277), (24, 6283), (26, 6307), (28, 6316), (31, 6355), (32, 6358),

Gene: Pureglobe5_20 Start: 6312, Stop: 6731, Start Num: 9
Candidate Starts for Pureglobe5_20:
(Start: 9 @6312 has 17 MA's), (17, 6441), (20, 6471), (23, 6504), (26, 6534), (28, 6543), (31, 6582),

Gene: RIPWilbur_16 Start: 5949, Stop: 6341, Start Num: 9
Candidate Starts for RIPWilbur_16:
(Start: 9 @5949 has 17 MA's), (17, 6078), (20, 6108), (23, 6141), (26, 6171), (28, 6180), (31, 6219),

Gene: Ranunculus_14 Start: 5906, Stop: 6328, Start Num: 9
Candidate Starts for Ranunculus_14:
(3, 5720), (6, 5843), (Start: 9 @5906 has 17 MA's), (18, 6041), (20, 6068), (23, 6101), (26, 6131), (28, 6140), (31, 6179), (32, 6182), (40, 6302),

Gene: RazzB_15 Start: 5324, Stop: 5743, Start Num: 9
Candidate Starts for RazzB_15:
(Start: 9 @5324 has 17 MA's), (17, 5453), (20, 5483), (23, 5516), (26, 5546), (28, 5555), (31, 5594),

Gene: Ren19_13 Start: 6009, Stop: 6428, Start Num: 9
Candidate Starts for Ren19_13:
(Start: 9 @6009 has 17 MA's), (16, 6108), (17, 6138), (20, 6168), (23, 6201), (28, 6240), (31, 6279), (39, 6390), (41, 6402),

Gene: Rizwana_12 Start: 5604, Stop: 5987, Start Num: 9
Candidate Starts for Rizwana_12:
(4, 5454), (Start: 9 @5604 has 17 MA's), (10, 5616), (Start: 12 @5649 has 1 MA's), (14, 5673), (17, 5733), (21, 5769), (22, 5772), (24, 5802), (25, 5805), (27, 5829), (28, 5835), (30, 5871), (35, 5949),

Gene: RomansRevenge_10 Start: 4085, Stop: 4486, Start Num: 8
Candidate Starts for RomansRevenge_10:
(3, 3899), (5, 3941), (Start: 8 @4085 has 1 MA's), (11, 4103), (15, 4175), (19, 4238), (24, 4295), (26, 4319), (28, 4328), (29, 4349), (30, 4364), (33, 4376), (34, 4388),

Gene: SilentRX_13 Start: 5146, Stop: 5538, Start Num: 9
Candidate Starts for SilentRX_13:
(Start: 9 @5146 has 17 MA's), (14, 5215), (17, 5281), (26, 5374), (28, 5383), (29, 5404), (36, 5503),

Gene: Sunfish_21 Start: 7106, Stop: 7447, Start Num: 12
Candidate Starts for Sunfish_21:
(Start: 12 @7106 has 1 MA's), (13, 7130), (14, 7133), (23, 7247), (24, 7253), (26, 7277), (28, 7286), (30, 7322), (37, 7427),

Gene: Tank_13 Start: 5619, Stop: 6002, Start Num: 9
Candidate Starts for Tank_13:
(Start: 9 @5619 has 17 MA's), (15, 5697), (17, 5748), (24, 5817), (25, 5820), (27, 5844), (28, 5850), (30, 5886), (35, 5964),

Gene: Wilde_13 Start: 5547, Stop: 5930, Start Num: 9
Candidate Starts for Wilde_13:
(Start: 9 @5547 has 17 MA's), (15, 5625), (17, 5676), (24, 5745), (25, 5748), (27, 5772), (28, 5778), (30, 5814), (35, 5892),