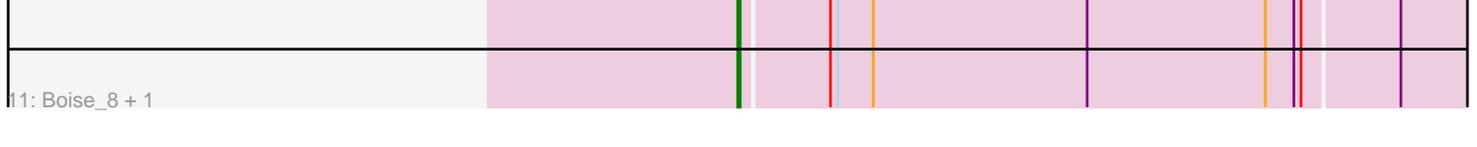
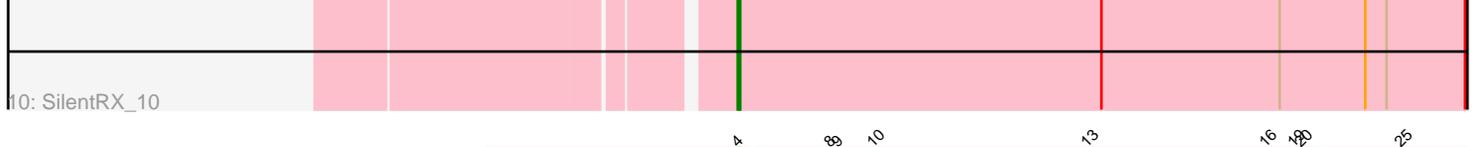
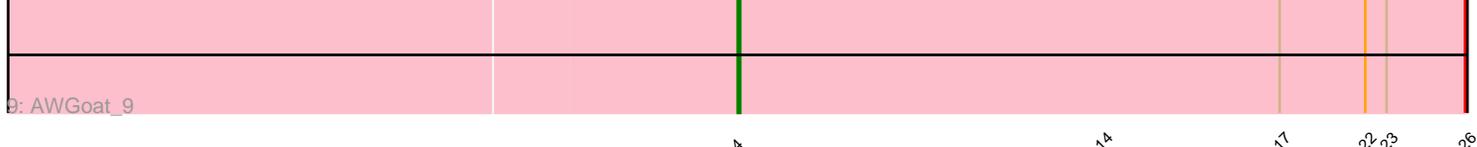
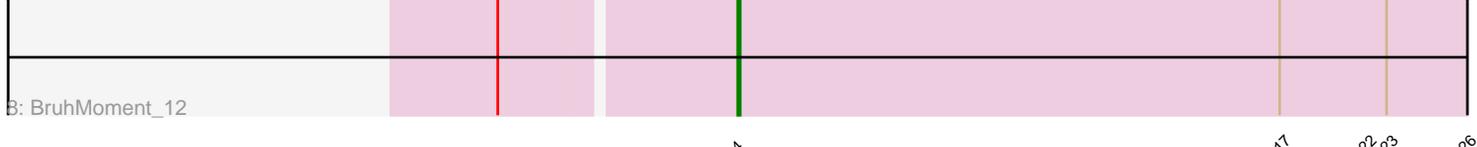
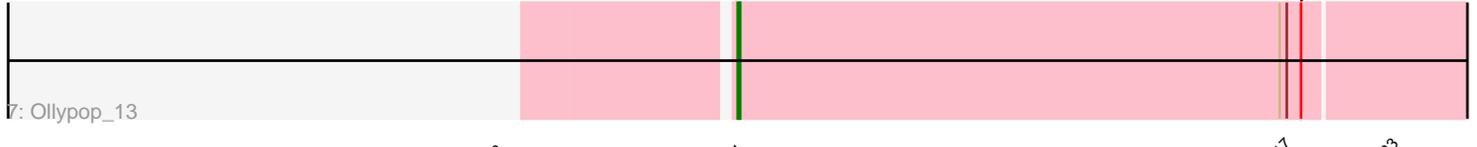
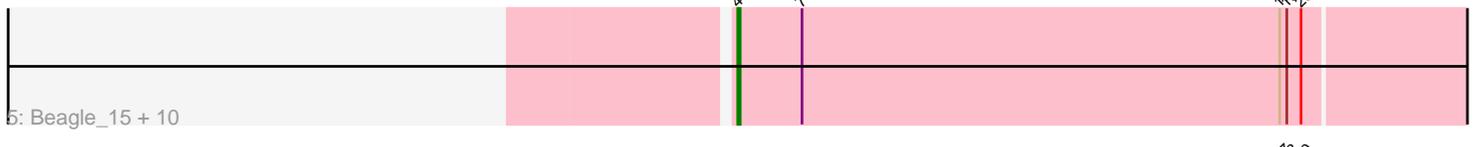
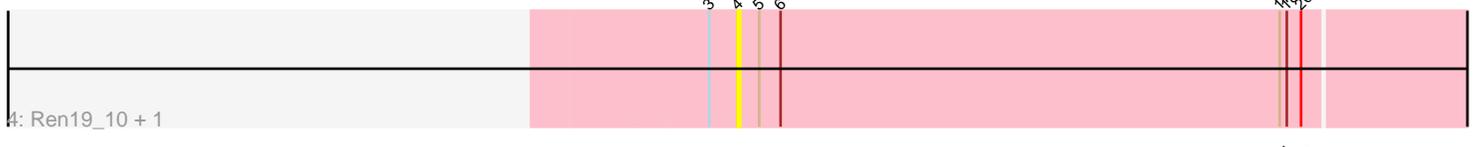
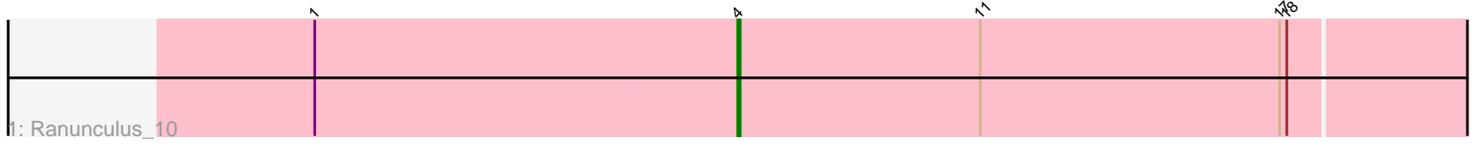


Zoomed Pham 291447



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 291447 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291447 has 27 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Ranunculus_10
- Track 2 : Tank_11, Wilde_11
- Track 3 : Rizwana_10
- Track 4 : Ren19_10, Nikan_12
- Track 5 : Beagle_15, Pureglobe5_16, Pointis_14, Popstraw_13, Hive_13, PhuzzTulsa_12, RIPWilbur_12, Odyssey395_16, Kubulix_15, BetaFish_14, DogYard_14
- Track 6 : RazzB_11, MellowYellow_12, Forrestell_12, NyleyClemson_12
- Track 7 : Ollypop_13
- Track 8 : BruhMoment_12
- Track 9 : AWGoat_9
- Track 10 : SilentRX_10
- Track 11 : Boise_8, RomansRevenge_8

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

The start number called the most often in the published annotations is 4, it was called in 18 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AWGoat_9, Beagle_15, BetaFish_14, Boise_8, BruhMoment_12, DogYard_14, Forrestell_12, Hive_13, Kubulix_15, MellowYellow_12, Nikan_12, NyleyClemson_12, Odyssey395_16, Ollypop_13, PhuzzTulsa_12, Pointis_14, Popstraw_13, Pureglobe5_16, RIPWilbur_12, Ranunculus_10, RazzB_11, Ren19_10, Rizwana_10, RomansRevenge_8, SilentRX_10, Tank_11, Wilde_11,

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

-

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

-

Summary by start number:

Start 4:

- Found in 27 of 27 (100.0%) of genes in pham
- Manual Annotations of this start: 18 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AWGoat_9 (AP4), Beagle_15 (AP2), BetaFish_14 (AP2), Boise_8 (FT), BruhMoment_12 (AP3), DogYard_14 (AP2), Forrestell_12 (AP2), Hive_13 (AP2), Kubulix_15 (AP2), MellowYellow_12 (AP2), Nikan_12 (AP2), NyleyClemson_12 (AP2), Odyssey395_16 (AP2), Ollypop_13 (AP2), PhuzzTulsa_12 (AP2), Pointis_14 (AP2), Popstraw_13 (AP2), Pureglobe5_16 (AP2), RIPWilbur_12 (AP2), Ranunculus_10 (AP), RazzB_11 (AP2), Ren19_10 (AP2), Rizwana_10 (AP1), RomansRevenge_8 (FT), SilentRX_10 (AP4), Tank_11 (AP1), Wilde_11 (AP1),

Summary by clusters:

There are 6 clusters represented in this pham: FT, AP2, AP3, AP1, AP4, AP,

Info for manual annotations of cluster AP:

- Start number 4 was manually annotated 1 time for cluster AP.

Info for manual annotations of cluster AP1:

- Start number 4 was manually annotated 3 times for cluster AP1.

Info for manual annotations of cluster AP2:

- Start number 4 was manually annotated 10 times for cluster AP2.

Info for manual annotations of cluster AP3:

- Start number 4 was manually annotated 1 time for cluster AP3.

Info for manual annotations of cluster AP4:

- Start number 4 was manually annotated 2 times for cluster AP4.

Info for manual annotations of cluster FT:

- Start number 4 was manually annotated 1 time for cluster FT.

Gene Information:

Gene: AWGoat_9 Start: 3580, Stop: 4173, Start Num: 4

Candidate Starts for AWGoat_9:

(Start: 4 @3580 has 18 MA's), (17, 3808), (22, 3844), (23, 3853), (26, 3886), (27, 3889), (34, 3985), (35, 3991), (39, 4015), (41, 4051), (51, 4153), (52, 4159),

Gene: Beagle_15 Start: 4696, Stop: 5277, Start Num: 4

Candidate Starts for Beagle_15:

(Start: 4 @4696 has 18 MA's), (7, 4723), (17, 4924), (18, 4927), (20, 4933), (27, 5002), (31, 5041), (36, 5116), (53, 5266),

Gene: BetaFish_14 Start: 4896, Stop: 5477, Start Num: 4

Candidate Starts for BetaFish_14:

(Start: 4 @4896 has 18 MA's), (7, 4923), (17, 5124), (18, 5127), (20, 5133), (27, 5202), (31, 5241), (36, 5316), (53, 5466),

Gene: Boise_8 Start: 3035, Stop: 3610, Start Num: 4

Candidate Starts for Boise_8:

(Start: 4 @3035 has 18 MA's), (8, 3071), (9, 3074), (10, 3089), (13, 3179), (16, 3254), (19, 3266), (20, 3269), (25, 3308), (28, 3353), (30, 3362), (37, 3443), (44, 3512), (48, 3554), (49, 3563), (51, 3590),

Gene: BruhMoment_12 Start: 4721, Stop: 5308, Start Num: 4

Candidate Starts for BruhMoment_12:

(2, 4628), (Start: 4 @4721 has 18 MA's), (17, 4949), (23, 4994), (27, 5030), (29, 5048), (34, 5126), (35, 5132), (40, 5189), (47, 5255), (53, 5297),

Gene: DogYard_14 Start: 4766, Stop: 5347, Start Num: 4

Candidate Starts for DogYard_14:

(Start: 4 @4766 has 18 MA's), (7, 4793), (17, 4994), (18, 4997), (20, 5003), (27, 5072), (31, 5111), (36, 5186), (53, 5336),

Gene: Forrestell_12 Start: 4123, Stop: 4704, Start Num: 4

Candidate Starts for Forrestell_12:

(Start: 4 @4123 has 18 MA's), (7, 4150), (17, 4351), (18, 4354), (20, 4360), (27, 4429), (31, 4468), (36, 4543), (53, 4693),

Gene: Hive_13 Start: 4780, Stop: 5361, Start Num: 4

Candidate Starts for Hive_13:

(Start: 4 @4780 has 18 MA's), (7, 4807), (17, 5008), (18, 5011), (20, 5017), (27, 5086), (31, 5125), (36, 5200), (53, 5350),

Gene: Kubulix_15 Start: 4895, Stop: 5476, Start Num: 4

Candidate Starts for Kubulix_15:

(Start: 4 @4895 has 18 MA's), (7, 4922), (17, 5123), (18, 5126), (20, 5132), (27, 5201), (31, 5240), (36, 5315), (53, 5465),

Gene: MellowYellow_12 Start: 4153, Stop: 4734, Start Num: 4

Candidate Starts for MellowYellow_12:

(Start: 4 @4153 has 18 MA's), (7, 4180), (17, 4381), (18, 4384), (20, 4390), (27, 4459), (31, 4498), (36, 4573), (53, 4723),

Gene: Nikan_12 Start: 4634, Stop: 5215, Start Num: 4

Candidate Starts for Nikan_12:

(3, 4622), (Start: 4 @4634 has 18 MA's), (5, 4643), (6, 4652), (17, 4862), (18, 4865), (20, 4871), (27, 4940), (31, 4979), (45, 5126), (46, 5129), (50, 5183), (51, 5195), (53, 5204),

Gene: NyleyClemson_12 Start: 4095, Stop: 4676, Start Num: 4

Candidate Starts for NyleyClemson_12:

(Start: 4 @4095 has 18 MA's), (7, 4122), (17, 4323), (18, 4326), (20, 4332), (27, 4401), (31, 4440), (36, 4515), (53, 4665),

Gene: Odyssey395_16 Start: 4894, Stop: 5475, Start Num: 4

Candidate Starts for Odyssey395_16:

(Start: 4 @4894 has 18 MA's), (7, 4921), (17, 5122), (18, 5125), (20, 5131), (27, 5200), (31, 5239), (36, 5314), (53, 5464),

Gene: Ollypop_13 Start: 4602, Stop: 5183, Start Num: 4

Candidate Starts for Ollypop_13:

(Start: 4 @4602 has 18 MA's), (17, 4830), (18, 4833), (20, 4839), (27, 4908), (31, 4947), (36, 5022), (44, 5091), (51, 5163), (53, 5172),

Gene: PhuzzTulsa_12 Start: 4684, Stop: 5265, Start Num: 4

Candidate Starts for PhuzzTulsa_12:

(Start: 4 @4684 has 18 MA's), (7, 4711), (17, 4912), (18, 4915), (20, 4921), (27, 4990), (31, 5029), (36, 5104), (53, 5254),

Gene: Pointis_14 Start: 4895, Stop: 5476, Start Num: 4

Candidate Starts for Pointis_14:

(Start: 4 @4895 has 18 MA's), (7, 4922), (17, 5123), (18, 5126), (20, 5132), (27, 5201), (31, 5240), (36, 5315), (53, 5465),

Gene: Popstraw_13 Start: 4684, Stop: 5265, Start Num: 4

Candidate Starts for Popstraw_13:

(Start: 4 @4684 has 18 MA's), (7, 4711), (17, 4912), (18, 4915), (20, 4921), (27, 4990), (31, 5029), (36, 5104), (53, 5254),

Gene: Pureglobe5_16 Start: 4908, Stop: 5489, Start Num: 4

Candidate Starts for Pureglobe5_16:

(Start: 4 @4908 has 18 MA's), (7, 4935), (17, 5136), (18, 5139), (20, 5145), (27, 5214), (31, 5253), (36, 5328), (53, 5478),

Gene: RIPWilbur_12 Start: 4548, Stop: 5129, Start Num: 4

Candidate Starts for RIPWilbur_12:

(Start: 4 @4548 has 18 MA's), (7, 4575), (17, 4776), (18, 4779), (20, 4785), (27, 4854), (31, 4893), (36, 4968), (53, 5118),

Gene: Ranunculus_10 Start: 4388, Stop: 4969, Start Num: 4

Candidate Starts for Ranunculus_10:

(1, 4211), (Start: 4 @4388 has 18 MA's), (11, 4490), (17, 4616), (18, 4619), (31, 4733), (44, 4877), (45, 4880), (46, 4883), (52, 4955),

Gene: RazzB_11 Start: 3923, Stop: 4504, Start Num: 4

Candidate Starts for RazzB_11:

(Start: 4 @3923 has 18 MA's), (7, 3950), (17, 4151), (18, 4154), (20, 4160), (27, 4229), (31, 4268), (36, 4343), (53, 4493),

Gene: Ren19_10 Start: 4634, Stop: 5215, Start Num: 4

Candidate Starts for Ren19_10:

(3, 4622), (Start: 4 @4634 has 18 MA's), (5, 4643), (6, 4652), (17, 4862), (18, 4865), (20, 4871), (27, 4940), (31, 4979), (45, 5126), (46, 5129), (50, 5183), (51, 5195), (53, 5204),

Gene: Rizwana_10 Start: 4484, Stop: 5074, Start Num: 4

Candidate Starts for Rizwana_10:

(Start: 4 @4484 has 18 MA's), (10, 4541), (12, 4589), (15, 4655), (21, 4739), (26, 4790), (27, 4793), (32, 4850), (38, 4913), (39, 4922), (42, 4964), (45, 4982), (51, 5054), (53, 5063),

Gene: RomansRevenge_8 Start: 3035, Stop: 3610, Start Num: 4

Candidate Starts for RomansRevenge_8:

(Start: 4 @3035 has 18 MA's), (8, 3071), (9, 3074), (10, 3089), (13, 3179), (16, 3254), (19, 3266), (20, 3269), (25, 3308), (28, 3353), (30, 3362), (37, 3443), (44, 3512), (48, 3554), (49, 3563), (51, 3590),

Gene: SilentRX_10 Start: 3301, Stop: 3894, Start Num: 4

Candidate Starts for SilentRX_10:

(Start: 4 @3301 has 18 MA's), (14, 3454), (17, 3529), (22, 3565), (23, 3574), (26, 3607), (27, 3610), (34, 3706), (35, 3712), (39, 3736), (41, 3772), (51, 3874), (52, 3880),

Gene: Tank_11 Start: 4502, Stop: 5092, Start Num: 4

Candidate Starts for Tank_11:

(Start: 4 @4502 has 18 MA's), (15, 4673), (17, 4730), (21, 4757), (24, 4778), (27, 4811), (30, 4835), (33, 4871), (42, 4982), (43, 4988), (45, 5000), (52, 5078), (53, 5081),

Gene: Wilde_11 Start: 4430, Stop: 5020, Start Num: 4

Candidate Starts for Wilde_11:

(Start: 4 @4430 has 18 MA's), (15, 4601), (17, 4658), (21, 4685), (24, 4706), (27, 4739), (30, 4763), (33, 4799), (42, 4910), (43, 4916), (45, 4928), (52, 5006), (53, 5009),