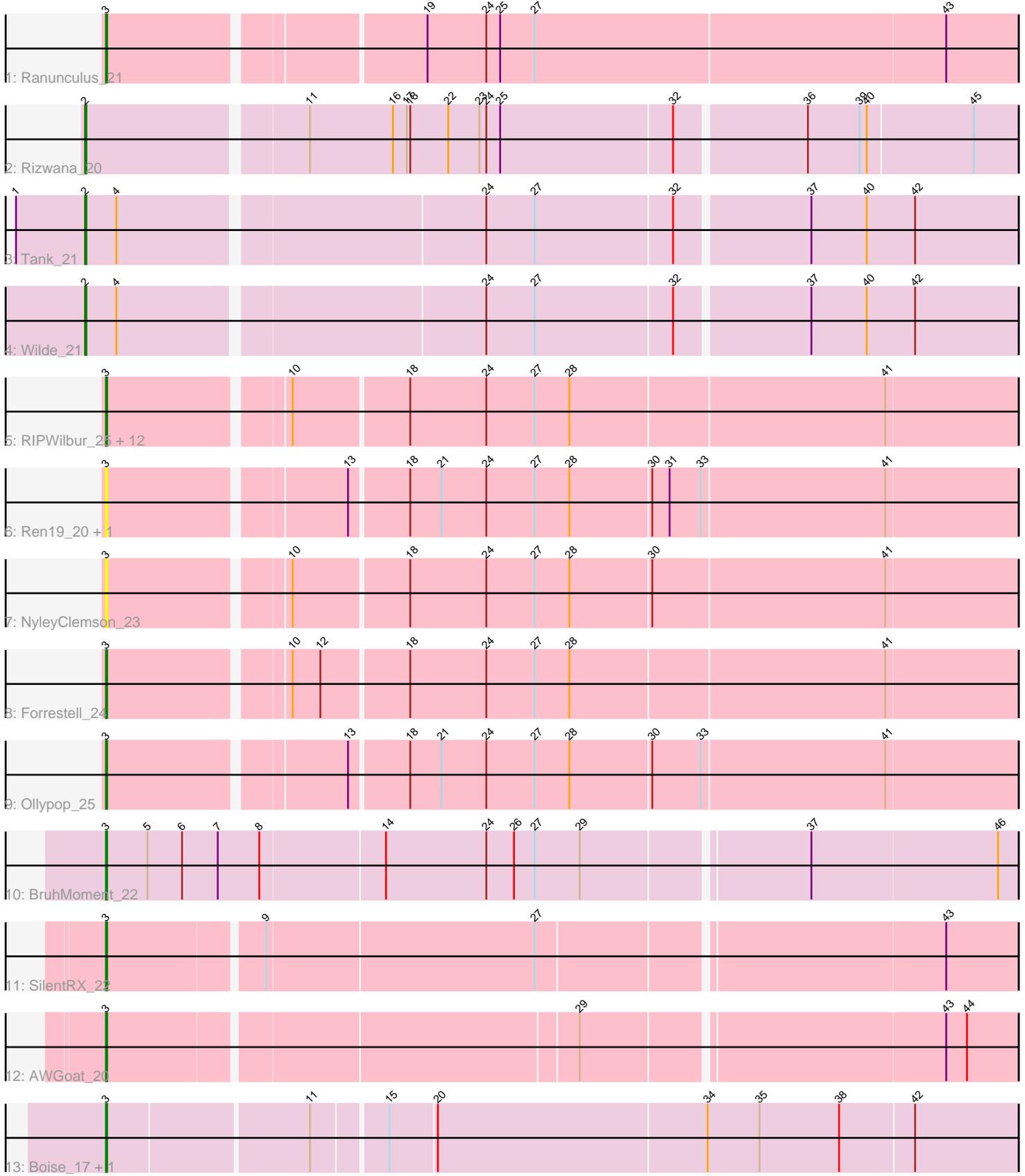


Pham 289674



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 289674 Report

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

Pham number 289674 has 27 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Ranunculus_21
- Track 2 : Rizwana_20
- Track 3 : Tank_21
- Track 4 : Wilde_21
- Track 5 : RIPWilbur_25, PhuzzTulsa_25, Kubulix_28, BetaFish_27, Odyssey395_29, DogYard_27, Pureglobe5_29, Pointis_27, RazzB_23, Beagle_28, Hive_27, Popstraw_25, MellowYellow_24
- Track 6 : Ren19_20, Nikan_22
- Track 7 : NyleyClemson_23
- Track 8 : Forrestell_24
- Track 9 : Ollypop_25
- Track 10 : BruhMoment_22
- Track 11 : SilentRX_22
- Track 12 : AWGoat_20
- Track 13 : Boise_17, RomansRevenge_17

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

The start number called the most often in the published annotations is 3, it was called in 15 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AWGoat_20, Beagle_28, BetaFish_27, Boise_17, BruhMoment_22, DogYard_27, Forrestell_24, Hive_27, Kubulix_28, MellowYellow_24, Nikan_22, NyleyClemson_23, Odyssey395_29, Ollypop_25, PhuzzTulsa_25, Pointis_27, Popstraw_25, Pureglobe5_29, RIPWilbur_25, Ranunculus_21, RazzB_23, Ren19_20, RomansRevenge_17, SilentRX_22,

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

-

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

- Rizwana_20, Tank_21, Wilde_21,

Summary by start number:

Start 2:

- Found in 3 of 27 (11.1%) of genes in pham
- Manual Annotations of this start: 3 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Rizwana_20 (AP1), Tank_21 (AP1), Wilde_21 (AP1),

Start 3:

- Found in 24 of 27 (88.9%) of genes in pham
- Manual Annotations of this start: 15 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AWGoat_20 (AP4), Beagle_28 (AP2), BetaFish_27 (AP2), Boise_17 (FT), BruhMoment_22 (AP3), DogYard_27 (AP2), Forrestell_24 (AP2), Hive_27 (AP2), Kubulix_28 (AP2), MellowYellow_24 (AP2), Nikan_22 (AP2), NyleyClemson_23 (AP2), Odyssey395_29 (AP2), Ollypop_25 (AP2), PhuzzTulsa_25 (AP2), Pointis_27 (AP2), Popstraw_25 (AP2), Pureglobe5_29 (AP2), RIPWilbur_25 (AP2), Ranunculus_21 (AP), RazzB_23 (AP2), Ren19_20 (AP2), RomansRevenge_17 (FT), SilentRX_22 (AP4),

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 3 was manually annotated 1 time for cluster AP.

Info for manual annotations of cluster AP1:

- Start number 2 was manually annotated 3 times for cluster AP1.

Info for manual annotations of cluster AP2:

- Start number 3 was manually annotated 10 times for cluster AP2.

Info for manual annotations of cluster AP3:

- Start number 3 was manually annotated 1 time for cluster AP3.

Info for manual annotations of cluster AP4:

- Start number 3 was manually annotated 2 times for cluster AP4.

Info for manual annotations of cluster FT:

- Start number 3 was manually annotated 1 time for cluster FT.

Gene Information:

Gene: AWGoat_20 Start: 15505, Stop: 16254, Start Num: 3

Candidate Starts for AWGoat_20:

(Start: 3 @15505 has 15 MA's), (29, 15892), (43, 16192), (44, 16210),

Gene: Beagle_28 Start: 16029, Stop: 16787, Start Num: 3

Candidate Starts for Beagle_28:

(Start: 3 @16029 has 15 MA's), (10, 16173), (18, 16269), (24, 16335), (27, 16377), (28, 16407), (41, 16674),

Gene: BetaFish_27 Start: 16232, Stop: 16990, Start Num: 3

Candidate Starts for BetaFish_27:

(Start: 3 @16232 has 15 MA's), (10, 16376), (18, 16472), (24, 16538), (27, 16580), (28, 16610), (41, 16877),

Gene: Boise_17 Start: 13323, Stop: 14087, Start Num: 3

Candidate Starts for Boise_17:

(Start: 3 @13323 has 15 MA's), (11, 13491), (15, 13551), (20, 13590), (34, 13821), (35, 13866), (38, 13935), (42, 13998),

Gene: BruhMoment_22 Start: 15455, Stop: 16222, Start Num: 3

Candidate Starts for BruhMoment_22:

(Start: 3 @15455 has 15 MA's), (5, 15491), (6, 15521), (7, 15551), (8, 15587), (14, 15692), (24, 15779), (26, 15803), (27, 15821), (29, 15860), (37, 16046), (46, 16205),

Gene: DogYard_27 Start: 16099, Stop: 16857, Start Num: 3

Candidate Starts for DogYard_27:

(Start: 3 @16099 has 15 MA's), (10, 16243), (18, 16339), (24, 16405), (27, 16447), (28, 16477), (41, 16744),

Gene: Forrestell_24 Start: 14737, Stop: 15495, Start Num: 3

Candidate Starts for Forrestell_24:

(Start: 3 @14737 has 15 MA's), (10, 14881), (12, 14905), (18, 14977), (24, 15043), (27, 15085), (28, 15115), (41, 15382),

Gene: Hive_27 Start: 16113, Stop: 16871, Start Num: 3

Candidate Starts for Hive_27:

(Start: 3 @16113 has 15 MA's), (10, 16257), (18, 16353), (24, 16419), (27, 16461), (28, 16491), (41, 16758),

Gene: Kubulix_28 Start: 16222, Stop: 16980, Start Num: 3

Candidate Starts for Kubulix_28:

(Start: 3 @16222 has 15 MA's), (10, 16366), (18, 16462), (24, 16528), (27, 16570), (28, 16600), (41, 16867),

Gene: MellowYellow_24 Start: 14764, Stop: 15522, Start Num: 3

Candidate Starts for MellowYellow_24:

(Start: 3 @14764 has 15 MA's), (10, 14908), (18, 15004), (24, 15070), (27, 15112), (28, 15142), (41, 15409),

Gene: Nikan_22 Start: 15277, Stop: 16035, Start Num: 3

Candidate Starts for Nikan_22:

(Start: 3 @15277 has 15 MA's), (13, 15469), (18, 15517), (21, 15544), (24, 15583), (27, 15625), (28, 15655), (30, 15724), (31, 15739), (33, 15766), (41, 15922),

Gene: NyleyClemson_23 Start: 14709, Stop: 15467, Start Num: 3

Candidate Starts for NyleyClemson_23:

(Start: 3 @14709 has 15 MA's), (10, 14853), (18, 14949), (24, 15015), (27, 15057), (28, 15087), (30, 15156), (41, 15354),

Gene: Odyssey395_29 Start: 16224, Stop: 16982, Start Num: 3

Candidate Starts for Odyssey395_29:

(Start: 3 @16224 has 15 MA's), (10, 16368), (18, 16464), (24, 16530), (27, 16572), (28, 16602), (41, 16869),

Gene: Ollypop_25 Start: 15239, Stop: 15997, Start Num: 3

Candidate Starts for Ollypop_25:

(Start: 3 @15239 has 15 MA's), (13, 15431), (18, 15479), (21, 15506), (24, 15545), (27, 15587), (28, 15617), (30, 15686), (33, 15728), (41, 15884),

Gene: PhuzzTulsa_25 Start: 16011, Stop: 16769, Start Num: 3

Candidate Starts for PhuzzTulsa_25:

(Start: 3 @16011 has 15 MA's), (10, 16155), (18, 16251), (24, 16317), (27, 16359), (28, 16389), (41, 16656),

Gene: Pointis_27 Start: 16228, Stop: 16986, Start Num: 3

Candidate Starts for Pointis_27:

(Start: 3 @16228 has 15 MA's), (10, 16372), (18, 16468), (24, 16534), (27, 16576), (28, 16606), (41, 16873),

Gene: Popstraw_25 Start: 16014, Stop: 16772, Start Num: 3

Candidate Starts for Popstraw_25:

(Start: 3 @16014 has 15 MA's), (10, 16158), (18, 16254), (24, 16320), (27, 16362), (28, 16392), (41, 16659),

Gene: Pureglobe5_29 Start: 16238, Stop: 16996, Start Num: 3

Candidate Starts for Pureglobe5_29:

(Start: 3 @16238 has 15 MA's), (10, 16382), (18, 16478), (24, 16544), (27, 16586), (28, 16616), (41, 16883),

Gene: RIPWilbur_25 Start: 15374, Stop: 16132, Start Num: 3

Candidate Starts for RIPWilbur_25:

(Start: 3 @15374 has 15 MA's), (10, 15518), (18, 15614), (24, 15680), (27, 15722), (28, 15752), (41, 16019),

Gene: Ranunculus_21 Start: 15118, Stop: 15879, Start Num: 3

Candidate Starts for Ranunculus_21:

(Start: 3 @15118 has 15 MA's), (19, 15373), (24, 15424), (25, 15436), (27, 15466), (43, 15817),

Gene: RazzB_23 Start: 14537, Stop: 15295, Start Num: 3

Candidate Starts for RazzB_23:

(Start: 3 @14537 has 15 MA's), (10, 14681), (18, 14777), (24, 14843), (27, 14885), (28, 14915), (41, 15182),

Gene: Ren19_20 Start: 15277, Stop: 16035, Start Num: 3

Candidate Starts for Ren19_20:

(Start: 3 @15277 has 15 MA's), (13, 15469), (18, 15517), (21, 15544), (24, 15583), (27, 15625), (28, 15655), (30, 15724), (31, 15739), (33, 15766), (41, 15922),

Gene: Rizwana_20 Start: 15024, Stop: 15803, Start Num: 2

Candidate Starts for Rizwana_20:

(Start: 2 @15024 has 3 MA's), (11, 15204), (16, 15276), (17, 15288), (18, 15291), (22, 15324), (23, 15351), (24, 15357), (25, 15369), (32, 15516), (36, 15624), (39, 15669), (40, 15675), (45, 15765),

Gene: RomansRevenge_17 Start: 13323, Stop: 14087, Start Num: 3

Candidate Starts for RomansRevenge_17:

(Start: 3 @13323 has 15 MA's), (11, 13491), (15, 13551), (20, 13590), (34, 13821), (35, 13866), (38, 13935), (42, 13998),

Gene: SilentRX_22 Start: 15268, Stop: 16020, Start Num: 3

Candidate Starts for SilentRX_22:

(Start: 3 @15268 has 15 MA's), (9, 15394), (27, 15622), (43, 15958),

Gene: Tank_21 Start: 14915, Stop: 15694, Start Num: 2

Candidate Starts for Tank_21:

(1, 14855), (Start: 2 @14915 has 3 MA's), (4, 14942), (24, 15245), (27, 15287), (32, 15404), (37, 15515), (40, 15563), (42, 15605),

Gene: Wilde_21 Start: 14844, Stop: 15623, Start Num: 2

Candidate Starts for Wilde_21:

(Start: 2 @14844 has 3 MA's), (4, 14871), (24, 15174), (27, 15216), (32, 15333), (37, 15444), (40, 15492), (42, 15534),