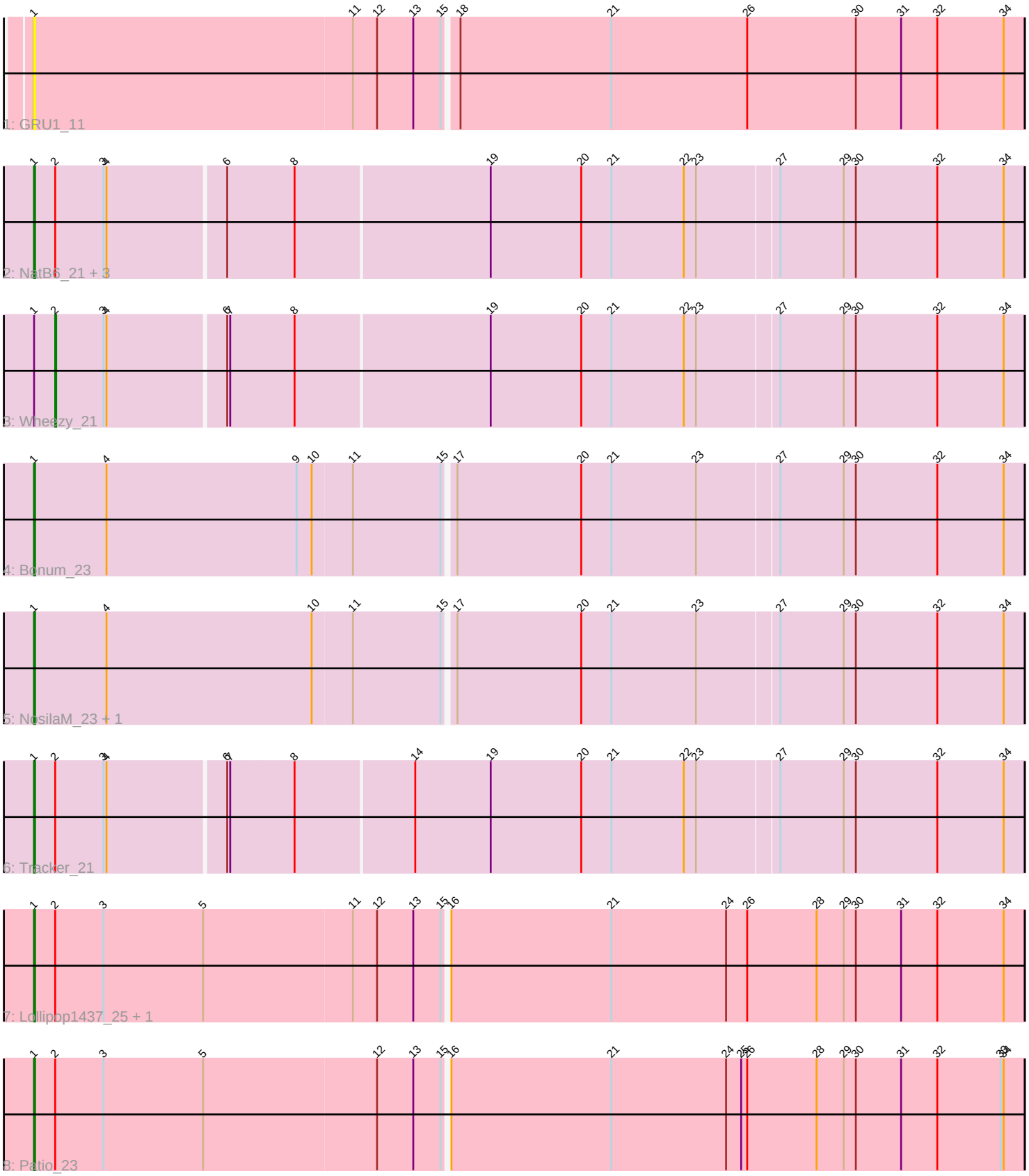
Pham 4782


1: GRU1_11
2: NatB6_21 + 3
3: Wheezy_21
4: Bonum_23
5: NosilaM_23 + 1
6: Tracker_21
7: Lollipop1437_25 + 1
8: Patio_23

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 4782 Report

This analysis was run 04/28/24 on database version 559.

Pham number 4782 has 13 members, 1 are drafts.

Phages represented in each track:
• Track 1 : GRU1_11
• Track 2 : NatB6_21, GrootJr_23, NovumRegina_21, Arti_21
• Track 3 : Wheezy_21
• Track 4 : Bonum_23
• Track 5 : NosilaM_23, Kabluna_23
• Track 6 : Tracker_21
• Track 7 : Lollipop1437_25, Ennea_26
• Track 8 : Patio_23

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

The start number called the most often in the published annotations is 1, it was called in 11 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Arti_21, Bonum_23, Ennea_26, GRU1_11, GrootJr_23, Kabluna_23, Lollipop1437_25, NatB6_21, NosilaM_23, NovumRegina_21, Patio_23, Tracker_21,

Genes that have the "Most Annotated" start but do not call it:
• Wheezy_21,

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

Summary by start number:

Start 1:
• Found in 13 of 13 (100.0%) of genes in pham
• Manual Annotations of this start: 11 of 12
• Called 92.3% of time when present
• Phage (with cluster) where this start called: Arti_21 (CR2), Bonum_23 (CR2), Ennea_26 (CR3), GRU1_11 (CR1), GrootJr_23 (CR2), Kabluna_23 (CR2), Lollipop1437_25 (CR3), NatB6_21 (CR2), NosilaM_23 (CR2), NovumRegina_21 (CR2), Patio_23 (CR3), Tracker_21 (CR2),

Start 2:
• Found in 9 of 13 (69.2%) of genes in pham
• Manual Annotations of this start: 1 of 12
• Called 11.1% of time when present
• Phage (with cluster) where this start called: Wheezy_21 (CR2),

Summary by clusters:

There are 3 clusters represented in this pham: CR2, CR3, CR1,

Info for manual annotations of cluster CR2:
•Start number 1 was manually annotated 8 times for cluster CR2.
•Start number 2 was manually annotated 1 time for cluster CR2.

Info for manual annotations of cluster CR3:
•Start number 1 was manually annotated 3 times for cluster CR3.

Gene Information:

Gene: Arti_21 Start: 10497, Stop: 11459, Start Num: 1
Candidate Starts for Arti_21:
(Start: 1 @10497 has 11 MA's), (Start: 2 @10518 has 1 MA's), (3, 10566), (4, 10569), (6, 10683), (8, 10746), (19, 10935), (20, 11025), (21, 11055), (22, 11127), (23, 11139), (27, 11217), (29, 11280), (30, 11292), (32, 11373), (34, 11439),

Gene: Bonum_23 Start: 10642, Stop: 11610, Start Num: 1
Candidate Starts for Bonum_23:
(Start: 1 @10642 has 11 MA's), (4, 10714), (9, 10903), (10, 10918), (11, 10957), (15, 11044), (17, 11053), (20, 11176), (21, 11206), (23, 11290), (27, 11368), (29, 11431), (30, 11443), (32, 11524), (34, 11590),

Gene: Ennea_26 Start: 11674, Stop: 12648, Start Num: 1
Candidate Starts for Ennea_26:
(Start: 1 @11674 has 11 MA's), (Start: 2 @11695 has 1 MA's), (3, 11743), (5, 11842), (11, 11989), (12, 12013), (13, 12049), (15, 12076), (16, 12079), (21, 12238), (24, 12352), (26, 12373), (28, 12442), (29, 12469), (30, 12481), (31, 12526), (32, 12562), (34, 12628),

Gene: GRU1_11 Start: 3453, Stop: 4427, Start Num: 1
Candidate Starts for GRU1_11:
(Start: 1 @3453 has 11 MA's), (11, 3768), (12, 3792), (13, 3828), (15, 3855), (18, 3867), (21, 4017), (26, 4152), (30, 4260), (31, 4305), (32, 4341), (34, 4407),

Gene: GrootJr_23 Start: 10892, Stop: 11854, Start Num: 1
Candidate Starts for GrootJr_23:
(Start: 1 @10892 has 11 MA's), (Start: 2 @10913 has 1 MA's), (3, 10961), (4, 10964), (6, 11078), (8, 11141), (19, 11330), (20, 11420), (21, 11450), (22, 11522), (23, 11534), (27, 11612), (29, 11675), (30, 11687), (32, 11768), (34, 11834),

Gene: Kabluna_23 Start: 10033, Stop: 11001, Start Num: 1

Candidate Starts for Kabluna_23:
(Start: 1 @10033 has 11 MA's), (4, 10105), (10, 10309), (11, 10348), (15, 10435), (17, 10444), (20, 10567), (21, 10597), (23, 10681), (27, 10759), (29, 10822), (30, 10834), (32, 10915), (34, 10981),

Gene: Lollipop1437_25 Start: 11662, Stop: 12636, Start Num: 1
Candidate Starts for Lollipop1437_25:
(Start: 1 @11662 has 11 MA's), (Start: 2 @11683 has 1 MA's), (3, 11731), (5, 11830), (11, 11977), (12, 12001), (13, 12037), (15, 12064), (16, 12067), (21, 12226), (24, 12340), (26, 12361), (28, 12430), (29, 12457), (30, 12469), (31, 12514), (32, 12550), (34, 12616),

Gene: NatB6_21 Start: 10560, Stop: 11522, Start Num: 1
Candidate Starts for NatB6_21:
(Start: 1 @10560 has 11 MA's), (Start: 2 @10581 has 1 MA's), (3, 10629), (4, 10632), (6, 10746), (8, 10809), (19, 10998), (20, 11088), (21, 11118), (22, 11190), (23, 11202), (27, 11280), (29, 11343), (30, 11355), (32, 11436), (34, 11502),

Gene: NosilaM_23 Start: 10912, Stop: 11880, Start Num: 1
Candidate Starts for NosilaM_23:
(Start: 1 @10912 has 11 MA's), (4, 10984), (10, 11188), (11, 11227), (15, 11314), (17, 11323), (20, 11446), (21, 11476), (23, 11560), (27, 11638), (29, 11701), (30, 11713), (32, 11794), (34, 11860),

Gene: NovumRegina_21 Start: 10891, Stop: 11853, Start Num: 1
Candidate Starts for NovumRegina_21:
(Start: 1 @10891 has 11 MA's), (Start: 2 @10912 has 1 MA's), (3, 10960), (4, 10963), (6, 11077), (8, 11140), (19, 11329), (20, 11419), (21, 11449), (22, 11521), (23, 11533), (27, 11611), (29, 11674), (30, 11686), (32, 11767), (34, 11833),

Gene: Patio_23 Start: 10898, Stop: 11872, Start Num: 1
Candidate Starts for Patio_23:
(Start: 1 @10898 has 11 MA's), (Start: 2 @10919 has 1 MA's), (3, 10967), (5, 11066), (12, 11237), (13, 11273), (15, 11300), (16, 11303), (21, 11462), (24, 11576), (25, 11591), (26, 11597), (28, 11666), (29, 11693), (30, 11705), (31, 11750), (32, 11786), (33, 11849), (34, 11852),

Gene: Tracker_21 Start: 10314, Stop: 11276, Start Num: 1
Candidate Starts for Tracker_21:
(Start: 1 @10314 has 11 MA's), (Start: 2 @10335 has 1 MA's), (3, 10383), (4, 10386), (6, 10500), (7, 10503), (8, 10563), (14, 10677), (19, 10752), (20, 10842), (21, 10872), (22, 10944), (23, 10956), (27, 11034), (29, 11097), (30, 11109), (32, 11190), (34, 11256),

Gene: Wheezy_21 Start: 10538, Stop: 11479, Start Num: 2
Candidate Starts for Wheezy_21:
(Start: 1 @10517 has 11 MA's), (Start: 2 @10538 has 1 MA's), (3, 10586), (4, 10589), (6, 10703), (7, 10706), (8, 10766), (19, 10955), (20, 11045), (21, 11075), (22, 11147), (23, 11159), (27, 11237), (29, 11300), (30, 11312), (32, 11393), (34, 11459),