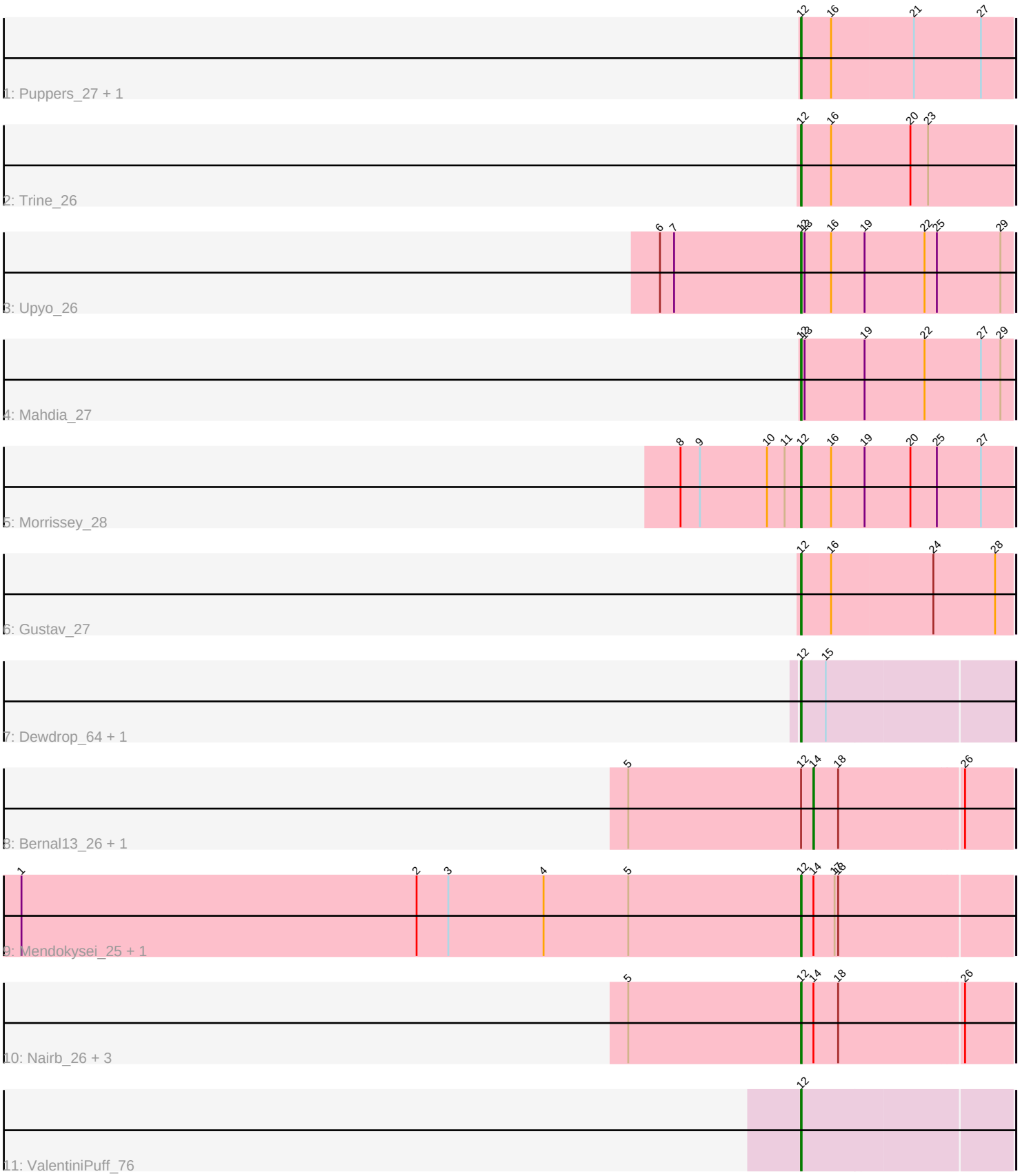
Pham 214702


12
16
21
27
1: Puppers_27 + 1
12
16
20
23
2: Trine_26
6
7
12
13
16
19
22
25
29
3: Upyo_26
12
13
19
22
27
29
4: Mahdia_27
8
9
10
11
12
16
19
20
25
27
5: Morrissey_28
12
16
24
28
6: Gustav_27
12
15
7: Dewdrop_64 + 1
5
12
14
18
26
8: Bernal13_26 + 1
1
2
3
4
5
12
14
18
9: Mendokysei_25 + 1
5
12
14
18
26
10: Nairb_26 + 3
12
11: ValentiniPuff_76

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 214702 Report

This analysis was run 02/22/25 on database version 588.

Pham number 214702 has 18 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Puppers_27, Widow_27
• Track 2 : Trine_26
• Track 3 : Upyo_26
• Track 4 : Mahdia_27
• Track 5 : Morrissey_28
• Track 6 : Gustav_27
• Track 7 : Dewdrop_64, Leaf_64
• Track 8 : Bernal13_26, ZenTime222_26
• Track 9 : Mendokysei_25, Nette_27
• Track 10 : Nairb_26, RonRayGun_26, Whitty_26, Ibrahim_26
• Track 11 : ValentiniPuff_76

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

The start number called the most often in the published annotations is 12, it was called in 15 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Dewdrop_64, Gustav_27, Ibrahim_26, Leaf_64, Mahdia_27, Mendokysei_25, Morrissey_28, Nairb_26, Nette_27, Puppers_27, RonRayGun_26, Trine_26, Upyo_26, ValentiniPuff_76, Whitty_26, Widow_27,

Genes that have the "Most Annotated" start but do not call it:
• Bernal13_26, ZenTime222_26,

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

Summary by start number:

Start 12:
• Found in 18 of 18 (100.0%) of genes in pham
• Manual Annotations of this start: 15 of 17
• Called 88.9% of time when present

• Phage (with cluster) where this start called: Dewdrop_64 (GC), Gustav_27 (CD), Ibrahim_26 (T), Leaf_64 (GC), Mahdia_27 (CD), Mendokysei_25 (T), Morrissey_28 (CD), Nairb_26 (T), Nette_27 (T), Puppers_27 (CD), RonRayGun_26 (T), Trine_26 (CD), Upyo_26 (CD), ValentiniPuff_76 (singleton), Whitty_26 (T), Widow_27 (CD),

Start 14:
• Found in 8 of 18 (44.4%) of genes in pham
• Manual Annotations of this start: 2 of 17
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Bernal13_26 (T), ZenTime222_26 (T),

Summary by clusters:

There are 4 clusters represented in this pham: singleton, GC, T, CD,

Info for manual annotations of cluster CD:
•Start number 12 was manually annotated 7 times for cluster CD.

Info for manual annotations of cluster GC:
•Start number 12 was manually annotated 2 times for cluster GC.

Info for manual annotations of cluster T:
•Start number 12 was manually annotated 5 times for cluster T.
•Start number 14 was manually annotated 2 times for cluster T.

Gene Information:

Gene: Bernal13_26 Start: 23250, Stop: 23579, Start Num: 14
Candidate Starts for Bernal13_26:
(5, 22935), (Start: 12 @23229 has 15 MA's), (Start: 14 @23250 has 2 MA's), (18, 23292), (26, 23499),

Gene: Dewdrop_64 Start: 34457, Stop: 34810, Start Num: 12
Candidate Starts for Dewdrop_64:
(Start: 12 @34457 has 15 MA's), (15, 34499),

Gene: Gustav_27 Start: 21555, Stop: 21911, Start Num: 12
Candidate Starts for Gustav_27:
(Start: 12 @21555 has 15 MA's), (16, 21606), (24, 21777), (28, 21882),

Gene: Ibrahim_26 Start: 23229, Stop: 23579, Start Num: 12
Candidate Starts for Ibrahim_26:
(5, 22935), (Start: 12 @23229 has 15 MA's), (Start: 14 @23250 has 2 MA's), (18, 23292), (26, 23499),

Gene: Leaf_64 Start: 34457, Stop: 34810, Start Num: 12
Candidate Starts for Leaf_64:
(Start: 12 @34457 has 15 MA's), (15, 34499),

Gene: Mahdia_27 Start: 20874, Stop: 21230, Start Num: 12
Candidate Starts for Mahdia_27:
(Start: 12 @20874 has 15 MA's), (13, 20880), (19, 20982), (22, 21081), (27, 21177), (29, 21210),

Gene: Mendokysei_25 Start: 23038, Stop: 23388, Start Num: 12
Candidate Starts for Mendokysei_25:
(1, 21712), (2, 22384), (3, 22438), (4, 22600), (5, 22744), (Start: 12 @23038 has 15 MA's), (Start: 14 @23059 has 2 MA's), (17, 23095), (18, 23101),

Gene: Morrissey_28 Start: 22425, Stop: 22781, Start Num: 12
Candidate Starts for Morrissey_28:
(8, 22221), (9, 22254), (10, 22368), (11, 22398), (Start: 12 @22425 has 15 MA's), (16, 22476), (19, 22533), (20, 22608), (25, 22653), (27, 22728),

Gene: Nairb_26 Start: 23229, Stop: 23579, Start Num: 12
Candidate Starts for Nairb_26:
(5, 22935), (Start: 12 @23229 has 15 MA's), (Start: 14 @23250 has 2 MA's), (18, 23292), (26, 23499),

Gene: Nette_27 Start: 23047, Stop: 23397, Start Num: 12
Candidate Starts for Nette_27:
(1, 21721), (2, 22393), (3, 22447), (4, 22609), (5, 22753), (Start: 12 @23047 has 15 MA's), (Start: 14 @23068 has 2 MA's), (17, 23104), (18, 23110),

Gene: Puppers_27 Start: 21276, Stop: 21632, Start Num: 12
Candidate Starts for Puppers_27:
(Start: 12 @21276 has 15 MA's), (16, 21327), (21, 21465), (27, 21579),

Gene: RonRayGun_26 Start: 23229, Stop: 23579, Start Num: 12
Candidate Starts for RonRayGun_26:
(5, 22935), (Start: 12 @23229 has 15 MA's), (Start: 14 @23250 has 2 MA's), (18, 23292), (26, 23499),

Gene: Trine_26 Start: 20938, Stop: 21297, Start Num: 12
Candidate Starts for Trine_26:
(Start: 12 @20938 has 15 MA's), (16, 20989), (20, 21124), (23, 21154),

Gene: Upyo_26 Start: 21192, Stop: 21551, Start Num: 12
Candidate Starts for Upyo_26:
(6, 20952), (7, 20976), (Start: 12 @21192 has 15 MA's), (13, 21198), (16, 21243), (19, 21300), (22, 21402), (25, 21423), (29, 21531),

Gene: ValentiniPuff_76 Start: 43850, Stop: 44197, Start Num: 12
Candidate Starts for ValentiniPuff_76:
(Start: 12 @43850 has 15 MA's),

Gene: Whitty_26 Start: 23229, Stop: 23579, Start Num: 12
Candidate Starts for Whitty_26:
(5, 22935), (Start: 12 @23229 has 15 MA's), (Start: 14 @23250 has 2 MA's), (18, 23292), (26, 23499),

Gene: Widow_27 Start: 21267, Stop: 21623, Start Num: 12
Candidate Starts for Widow_27:
(Start: 12 @21267 has 15 MA's), (16, 21318), (21, 21456), (27, 21570),

Gene: ZenTime222_26 Start: 23250, Stop: 23579, Start Num: 14
Candidate Starts for ZenTime222_26:
(5, 22935), (Start: 12 @23229 has 15 MA's), (Start: 14 @23250 has 2 MA's), (18, 23292), (26, 23499),