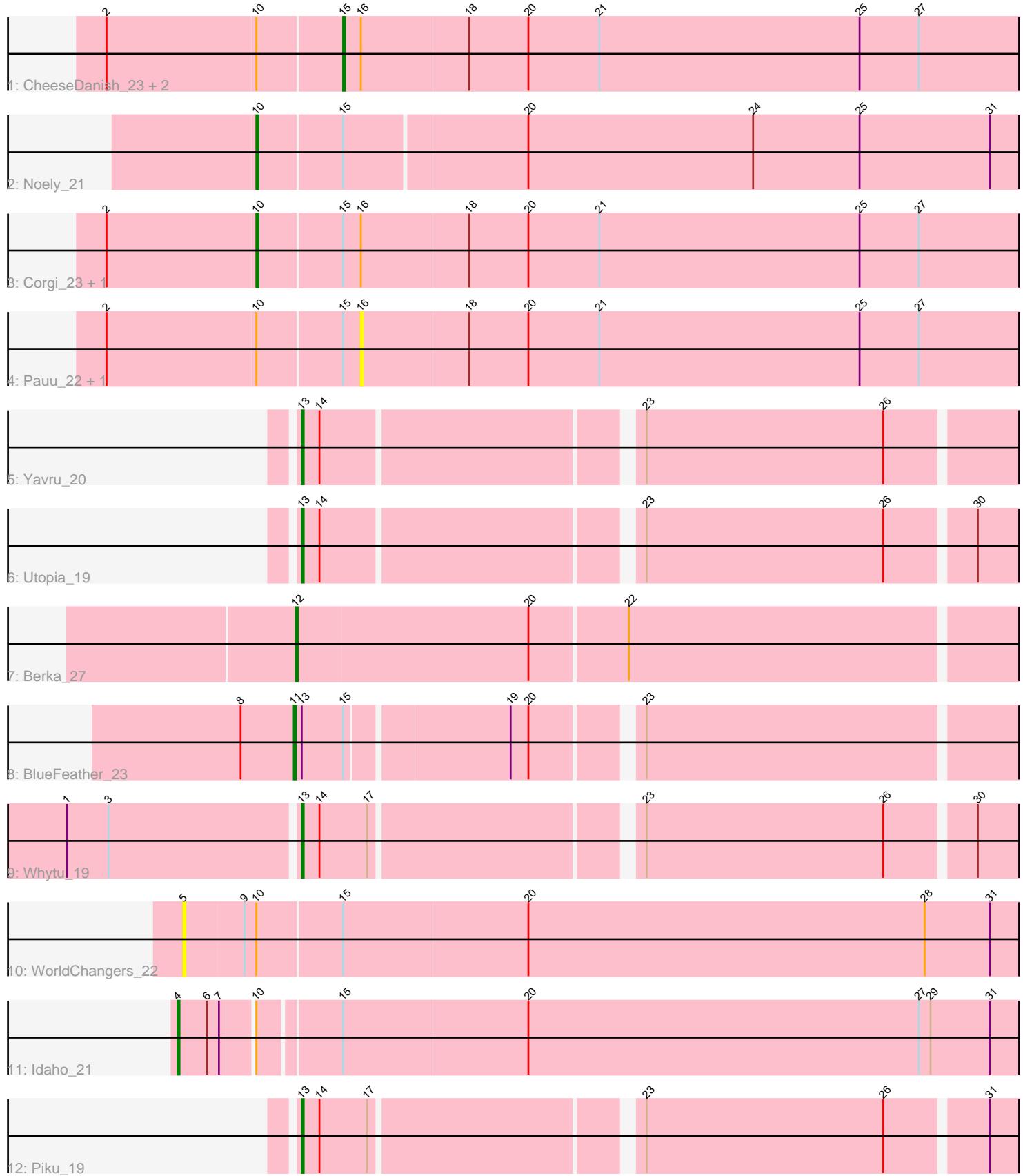


# Pham 251078



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 251078 Report

This analysis was run 02/07/26 on database version 634.

Pham number 251078 has 16 members, 5 are drafts.

Phages represented in each track:

- Track 1 : CheeseDanish\_23, Nebulanyx\_23, KNG13\_23
- Track 2 : Noely\_21
- Track 3 : Corgi\_23, CabbageMan\_21
- Track 4 : Pauu\_22, LauKoruNamu\_22
- Track 5 : Yavru\_20
- Track 6 : Utopia\_19
- Track 7 : Berka\_27
- Track 8 : BlueFeather\_23
- Track 9 : Whytu\_19
- Track 10 : WorldChangers\_22
- Track 11 : Idaho\_21
- Track 12 : Piku\_19

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

The start number called the most often in the published annotations is 13, it was called in 4 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Piku\_19, Utopia\_19, Whytu\_19, Yavru\_20,

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

- BlueFeather\_23,

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

- Berka\_27, CabbageMan\_21, CheeseDanish\_23, Corgi\_23, Idaho\_21, KNG13\_23, LauKoruNamu\_22, Nebulanyx\_23, Noely\_21, Pauu\_22, WorldChangers\_22,

### **Summary by start number:**

Start 4:

- Found in 1 of 16 ( 6.2% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Idaho\_21 (FE),

Start 5:

- Found in 1 of 16 ( 6.2% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: WorldChangers\_22 (FE),

Start 10:

- Found in 10 of 16 ( 62.5% ) of genes in pham
- Manual Annotations of this start: 3 of 11
- Called 30.0% of time when present
- Phage (with cluster) where this start called: CabbageMan\_21 (FE), Corgi\_23 (FE), Noely\_21 (FE),

Start 11:

- Found in 1 of 16 ( 6.2% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BlueFeather\_23 (FE),

Start 12:

- Found in 1 of 16 ( 6.2% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Berka\_27 (FE),

Start 13:

- Found in 5 of 16 ( 31.2% ) of genes in pham
- Manual Annotations of this start: 4 of 11
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Piku\_19 (FE), Utopia\_19 (FE), Whytu\_19 (FE), Yavru\_20 (FE),

Start 15:

- Found in 11 of 16 ( 68.8% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 27.3% of time when present
- Phage (with cluster) where this start called: CheeseDanish\_23 (FE), KNG13\_23 (FE), Nebulanyx\_23 (FE),

Start 16:

- Found in 7 of 16 ( 43.8% ) of genes in pham
- No Manual Annotations of this start.
- Called 28.6% of time when present
- Phage (with cluster) where this start called: LauKoruNamu\_22 (FE), Pauu\_22 (FE),

### **Summary by clusters:**

There is one cluster represented in this pham: FE

Info for manual annotations of cluster FE:

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

- Start number 10 was manually annotated 3 times for cluster FE.
- Start number 11 was manually annotated 1 time for cluster FE.
- Start number 12 was manually annotated 1 time for cluster FE.
- Start number 13 was manually annotated 4 times for cluster FE.
- Start number 15 was manually annotated 1 time for cluster FE.

**Gene Information:**

Gene: Berka\_27 Start: 14718, Stop: 15074, Start Num: 12

Candidate Starts for Berka\_27:

(Start: 12 @14718 has 1 MA's), (20, 14835), (22, 14883),

Gene: BlueFeather\_23 Start: 15433, Stop: 15774, Start Num: 11

Candidate Starts for BlueFeather\_23:

(8, 15406), (Start: 11 @15433 has 1 MA's), (Start: 13 @15436 has 4 MA's), (Start: 15 @15457 has 1 MA's), (19, 15535), (20, 15544), (23, 15592),

Gene: CabbageMan\_21 Start: 14675, Stop: 15058, Start Num: 10

Candidate Starts for CabbageMan\_21:

(2, 14600), (Start: 10 @14675 has 3 MA's), (Start: 15 @14717 has 1 MA's), (16, 14726), (18, 14780), (20, 14810), (21, 14846), (25, 14978), (27, 15008),

Gene: CheeseDanish\_23 Start: 14876, Stop: 15217, Start Num: 15

Candidate Starts for CheeseDanish\_23:

(2, 14759), (Start: 10 @14834 has 3 MA's), (Start: 15 @14876 has 1 MA's), (16, 14885), (18, 14939), (20, 14969), (21, 15005), (25, 15137), (27, 15167),

Gene: Corgi\_23 Start: 14834, Stop: 15217, Start Num: 10

Candidate Starts for Corgi\_23:

(2, 14759), (Start: 10 @14834 has 3 MA's), (Start: 15 @14876 has 1 MA's), (16, 14885), (18, 14939), (20, 14969), (21, 15005), (25, 15137), (27, 15167),

Gene: Idaho\_21 Start: 14970, Stop: 15386, Start Num: 4

Candidate Starts for Idaho\_21:

(Start: 4 @14970 has 1 MA's), (6, 14985), (7, 14991), (Start: 10 @15006 has 3 MA's), (Start: 15 @15045 has 1 MA's), (20, 15138), (27, 15336), (29, 15342), (31, 15372),

Gene: KNG13\_23 Start: 14873, Stop: 15214, Start Num: 15

Candidate Starts for KNG13\_23:

(2, 14756), (Start: 10 @14831 has 3 MA's), (Start: 15 @14873 has 1 MA's), (16, 14882), (18, 14936), (20, 14966), (21, 15002), (25, 15134), (27, 15164),

Gene: LauKoruNamu\_22 Start: 14726, Stop: 15058, Start Num: 16

Candidate Starts for LauKoruNamu\_22:

(2, 14600), (Start: 10 @14675 has 3 MA's), (Start: 15 @14717 has 1 MA's), (16, 14726), (18, 14780), (20, 14810), (21, 14846), (25, 14978), (27, 15008),

Gene: Nebulanyx\_23 Start: 14873, Stop: 15214, Start Num: 15

Candidate Starts for Nebulanyx\_23:

(2, 14756), (Start: 10 @14831 has 3 MA's), (Start: 15 @14873 has 1 MA's), (16, 14882), (18, 14936), (20, 14966), (21, 15002), (25, 15134), (27, 15164),

Gene: Noely\_21 Start: 14189, Stop: 14569, Start Num: 10

Candidate Starts for Noely\_21:

(Start: 10 @14189 has 3 MA's), (Start: 15 @14231 has 1 MA's), (20, 14321), (24, 14435), (25, 14489), (31, 14555),

Gene: Pauu\_22 Start: 14726, Stop: 15058, Start Num: 16

Candidate Starts for Pauu\_22:

(2, 14600), (Start: 10 @14675 has 3 MA's), (Start: 15 @14717 has 1 MA's), (16, 14726), (18, 14780), (20, 14810), (21, 14846), (25, 14978), (27, 15008),

Gene: Piku\_19 Start: 14055, Stop: 14396, Start Num: 13

Candidate Starts for Piku\_19:

(Start: 13 @14055 has 4 MA's), (14, 14064), (17, 14088), (23, 14214), (26, 14334), (31, 14382),

Gene: Utopia\_19 Start: 14050, Stop: 14391, Start Num: 13

Candidate Starts for Utopia\_19:

(Start: 13 @14050 has 4 MA's), (14, 14059), (23, 14209), (26, 14329), (30, 14371),

Gene: Whytu\_19 Start: 14130, Stop: 14471, Start Num: 13

Candidate Starts for Whytu\_19:

(1, 14016), (3, 14037), (Start: 13 @14130 has 4 MA's), (14, 14139), (17, 14163), (23, 14289), (26, 14409), (30, 14451),

Gene: WorldChangers\_22 Start: 14409, Stop: 14828, Start Num: 5

Candidate Starts for WorldChangers\_22:

(5, 14409), (9, 14439), (Start: 10 @14445 has 3 MA's), (Start: 15 @14487 has 1 MA's), (20, 14580), (28, 14781), (31, 14814),

Gene: Yavru\_20 Start: 14060, Stop: 14401, Start Num: 13

Candidate Starts for Yavru\_20:

(Start: 13 @14060 has 4 MA's), (14, 14069), (23, 14219), (26, 14339),