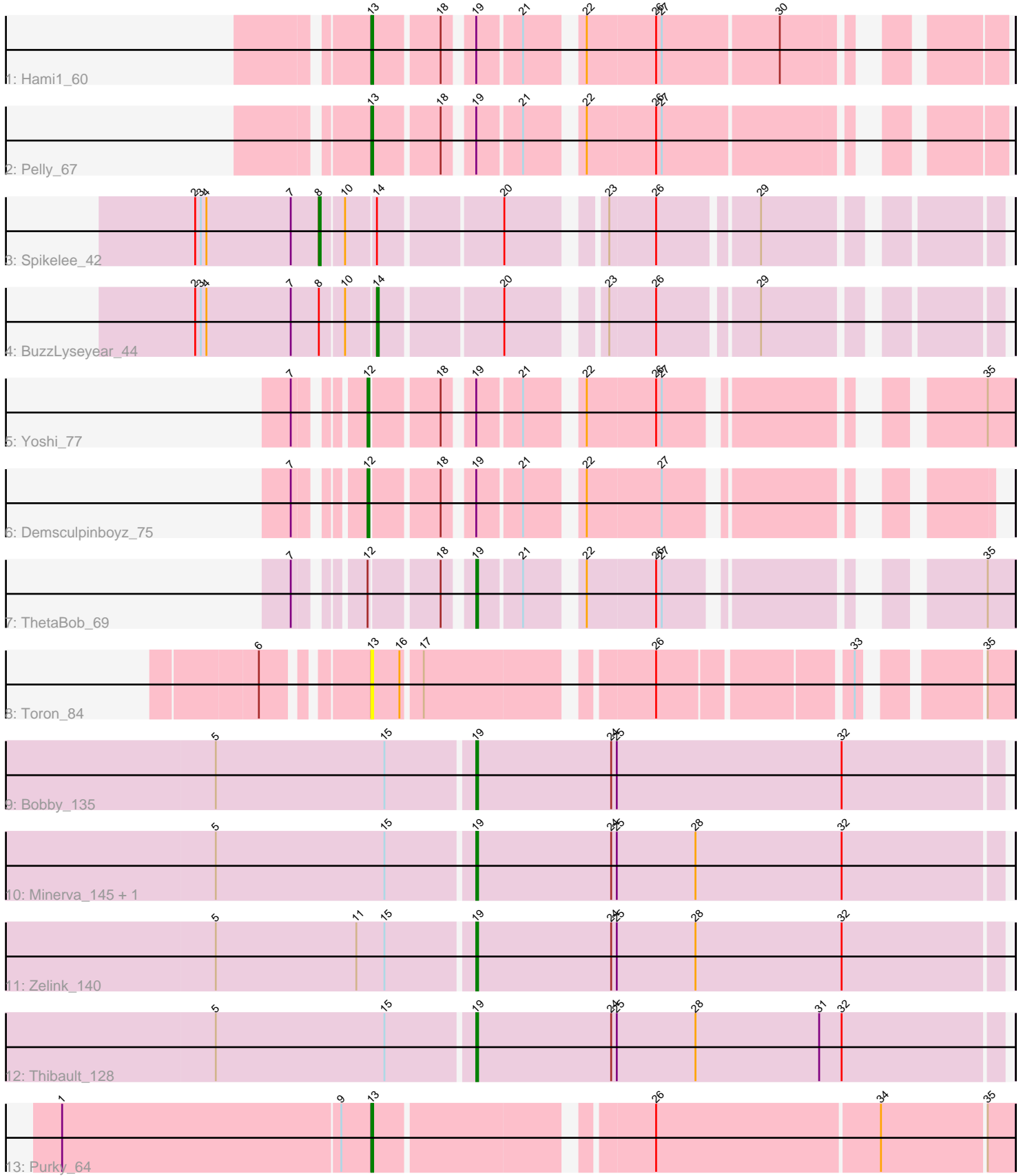


Pham 196956



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 196956 Report

This analysis was run 12/09/24 on database version 580.

Pham number 196956 has 14 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Hami1\_60
- Track 2 : Pelly\_67
- Track 3 : Spikelee\_42
- Track 4 : BuzzLyseyear\_44
- Track 5 : Yoshi\_77
- Track 6 : Demsculpinboyz\_75
- Track 7 : ThetaBob\_69
- Track 8 : Toron\_84
- Track 9 : Bobby\_135
- Track 10 : Minerva\_145, Wanda\_145
- Track 11 : Zelink\_140
- Track 12 : Thibault\_128
- Track 13 : Purky\_64

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

The start number called the most often in the published annotations is 19, it was called in 6 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bobby\_135, Minerva\_145, ThetaBob\_69, Thibault\_128, Wanda\_145, Zelink\_140,

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

- Demsculpinboyz\_75, Hami1\_60, Pelly\_67, Yoshi\_77,

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

- BuzzLyseyear\_44, Purky\_64, Spikelee\_42, Toron\_84,

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

Start 8:

- Found in 2 of 14 ( 14.3% ) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 50.0% of time when present

- Phage (with cluster) where this start called: Spikelee\_42 (F1),

Start 12:

- Found in 3 of 14 ( 21.4% ) of genes in pham
- Manual Annotations of this start: 2 of 13
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Demsculpinboyz\_75 (F2), Yoshi\_77 (F2),

Start 13:

- Found in 4 of 14 ( 28.6% ) of genes in pham
- Manual Annotations of this start: 3 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hami1\_60 (A1), Pelly\_67 (A1), Purky\_64 (P6), Toron\_84 (F6),

Start 14:

- Found in 2 of 14 ( 14.3% ) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 50.0% of time when present
- Phage (with cluster) where this start called: BuzzLyseyear\_44 (F1),

Start 19:

- Found in 10 of 14 ( 71.4% ) of genes in pham
- Manual Annotations of this start: 6 of 13
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Bobby\_135 (J), Minerva\_145 (J), ThetaBob\_69 (F4), Thibault\_128 (J), Wanda\_145 (J), Zelink\_140 (J),

### **Summary by clusters:**

There are 7 clusters represented in this pham: F1, F2, F4, F6, J, A1, P6,

Info for manual annotations of cluster A1:

- Start number 13 was manually annotated 2 times for cluster A1.

Info for manual annotations of cluster F1:

- Start number 8 was manually annotated 1 time for cluster F1.
- Start number 14 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster F2:

- Start number 12 was manually annotated 2 times for cluster F2.

Info for manual annotations of cluster F4:

- Start number 19 was manually annotated 1 time for cluster F4.

Info for manual annotations of cluster J:

- Start number 19 was manually annotated 5 times for cluster J.

Info for manual annotations of cluster P6:

- Start number 13 was manually annotated 1 time for cluster P6.

**Gene Information:**

Gene: Bobby\_135 Start: 77882, Stop: 78160, Start Num: 19

Candidate Starts for Bobby\_135:

(5, 77747), (15, 77837), (Start: 19 @77882 has 6 MA's), (24, 77954), (25, 77957), (32, 78077),

Gene: BuzzLyseyear\_44 Start: 32289, Stop: 32008, Start Num: 14

Candidate Starts for BuzzLyseyear\_44:

(2, 32382), (3, 32379), (4, 32376), (7, 32331), (Start: 8 @32316 has 1 MA's), (10, 32304), (Start: 14 @32289 has 1 MA's), (20, 32229), (23, 32187), (26, 32163), (29, 32115),

Gene: Demsculpinboyz\_75 Start: 41100, Stop: 41363, Start Num: 12

Candidate Starts for Demsculpinboyz\_75:

(7, 41073), (Start: 12 @41100 has 2 MA's), (18, 41133), (Start: 19 @41145 has 6 MA's), (21, 41166), (22, 41190), (27, 41229),

Gene: Hami1\_60 Start: 38171, Stop: 37893, Start Num: 13

Candidate Starts for Hami1\_60:

(Start: 13 @38171 has 3 MA's), (18, 38138), (Start: 19 @38126 has 6 MA's), (21, 38105), (22, 38081), (26, 38045), (27, 38042), (30, 37982),

Gene: Minerva\_145 Start: 76838, Stop: 77116, Start Num: 19

Candidate Starts for Minerva\_145:

(5, 76703), (15, 76793), (Start: 19 @76838 has 6 MA's), (24, 76910), (25, 76913), (28, 76955), (32, 77033),

Gene: Pelly\_67 Start: 44535, Stop: 44257, Start Num: 13

Candidate Starts for Pelly\_67:

(Start: 13 @44535 has 3 MA's), (18, 44502), (Start: 19 @44490 has 6 MA's), (21, 44469), (22, 44445), (26, 44409), (27, 44406),

Gene: Purky\_64 Start: 41545, Stop: 41862, Start Num: 13

Candidate Starts for Purky\_64:

(1, 41383), (9, 41530), (Start: 13 @41545 has 3 MA's), (26, 41677), (34, 41794), (35, 41848),

Gene: Spikelee\_42 Start: 31774, Stop: 31466, Start Num: 8

Candidate Starts for Spikelee\_42:

(2, 31840), (3, 31837), (4, 31834), (7, 31789), (Start: 8 @31774 has 1 MA's), (10, 31762), (Start: 14 @31747 has 1 MA's), (20, 31687), (23, 31645), (26, 31621), (29, 31573),

Gene: ThetaBob\_69 Start: 42635, Stop: 42865, Start Num: 19

Candidate Starts for ThetaBob\_69:

(7, 42563), (Start: 12 @42590 has 2 MA's), (18, 42623), (Start: 19 @42635 has 6 MA's), (21, 42656), (22, 42680), (26, 42716), (27, 42719), (35, 42851),

Gene: Thibault\_128 Start: 74023, Stop: 74301, Start Num: 19

Candidate Starts for Thibault\_128:

(5, 73888), (15, 73978), (Start: 19 @74023 has 6 MA's), (24, 74095), (25, 74098), (28, 74140), (31, 74206), (32, 74218),

Gene: Toron\_84 Start: 50886, Stop: 51176, Start Num: 13

Candidate Starts for Toron\_84:

(6, 50841), (Start: 13 @50886 has 3 MA's), (16, 50901), (17, 50910), (26, 51018), (33, 51111), (35, 51162),

Gene: Wanda\_145 Start: 75318, Stop: 75596, Start Num: 19

Candidate Starts for Wanda\_145:

(5, 75183), (15, 75273), (Start: 19 @75318 has 6 MA's), (24, 75390), (25, 75393), (28, 75435), (32, 75513),

Gene: Yoshi\_77 Start: 42854, Stop: 43129, Start Num: 12

Candidate Starts for Yoshi\_77:

(7, 42827), (Start: 12 @42854 has 2 MA's), (18, 42887), (Start: 19 @42899 has 6 MA's), (21, 42920), (22, 42944), (26, 42980), (27, 42983), (35, 43115),

Gene: Zelink\_140 Start: 78130, Stop: 78408, Start Num: 19

Candidate Starts for Zelink\_140:

(5, 77995), (11, 78070), (15, 78085), (Start: 19 @78130 has 6 MA's), (24, 78202), (25, 78205), (28, 78247), (32, 78325),