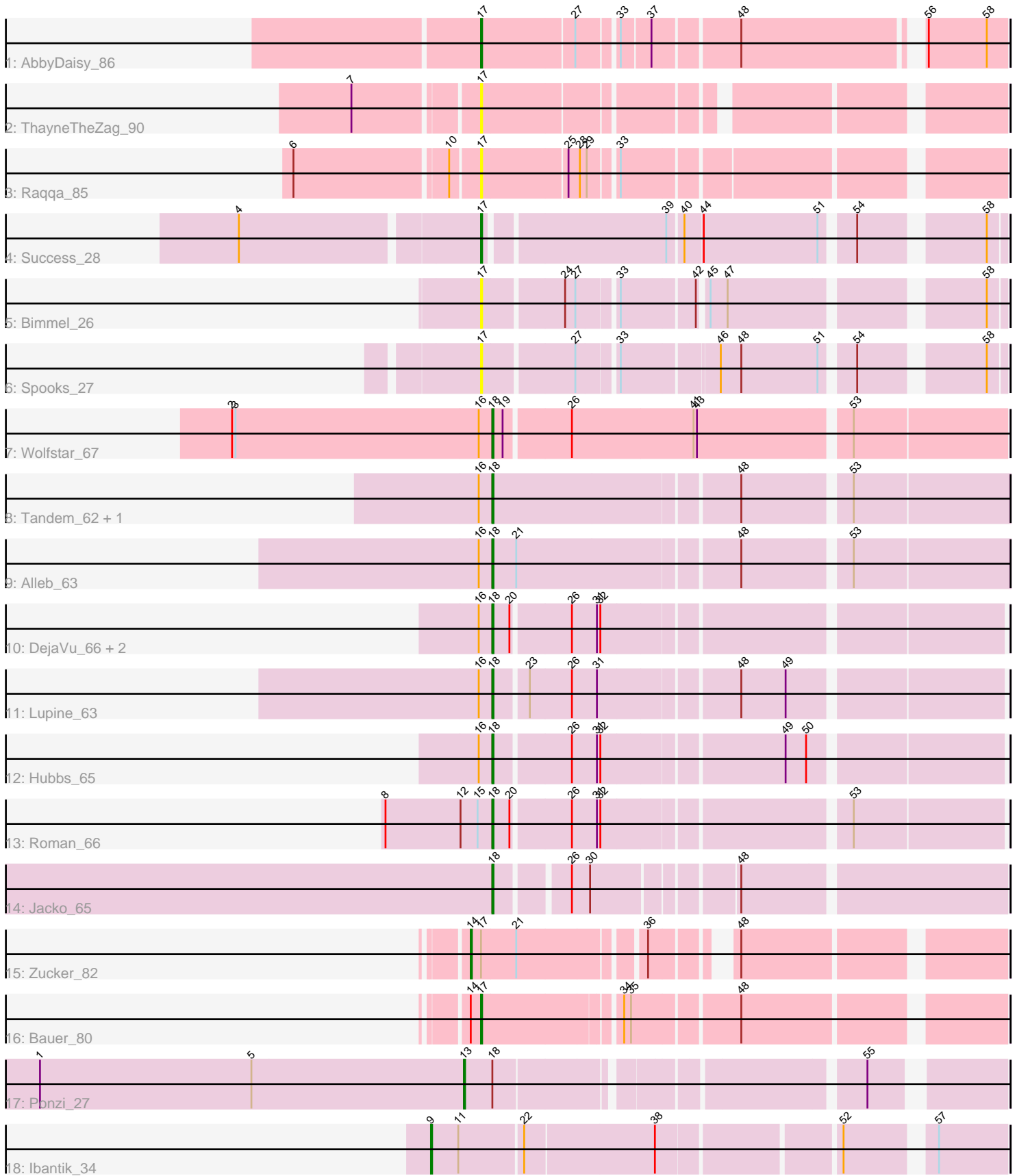


Pham 200579



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 200579 Report

This analysis was run 01/18/25 on database version 583.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 200579 has 21 members, 4 are drafts.

Phages represented in each track:

- Track 1 : AbbyDaisy\_86
- Track 2 : ThayneTheZag\_90
- Track 3 : Raqqa\_85
- Track 4 : Success\_28
- Track 5 : Bimmel\_26
- Track 6 : Spooks\_27
- Track 7 : Wolfstar\_67
- Track 8 : Tandem\_62, Pioneer3\_62
- Track 9 : Alleb\_63
- Track 10 : DejaVu\_66, PhillyPhilly\_64, Pavlo\_64
- Track 11 : Lupine\_63
- Track 12 : Hubbs\_65
- Track 13 : Roman\_66
- Track 14 : Jacko\_65
- Track 15 : Zucker\_82
- Track 16 : Bauer\_80
- Track 17 : Ponzi\_27
- Track 18 : Ibantik\_34

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

The start number called the most often in the published annotations is 18, it was called in 11 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alleb\_63, DejaVu\_66, Hubbs\_65, Jacko\_65, Lupine\_63, Pavlo\_64, PhillyPhilly\_64, Pioneer3\_62, Roman\_66, Tandem\_62, Wolfstar\_67,

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

- Ponzi\_27,

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

- AbbyDaisy\_86, Bauer\_80, Bimmel\_26, Ibantik\_34, Raqqa\_85, Spooks\_27, Success\_28, ThayneTheZag\_90, Zucker\_82,

### Summary by start number:

Start 9:

- Found in 1 of 21 ( 4.8% ) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ibantik\_34 (singleton),

Start 13:

- Found in 1 of 21 ( 4.8% ) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ponzi\_27 (singleton),

Start 14:

- Found in 2 of 21 ( 9.5% ) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Zucker\_82 (FN),

Start 17:

- Found in 8 of 21 ( 38.1% ) of genes in pham
- Manual Annotations of this start: 3 of 17
- Called 87.5% of time when present
- Phage (with cluster) where this start called: AbbyDaisy\_86 (AY), Bauer\_80 (FN), Bimmel\_26 (BT), Raqqa\_85 (AY), Spooks\_27 (BT), Success\_28 (BT), ThayneTheZag\_90 (AY),

Start 18:

- Found in 12 of 21 ( 57.1% ) of genes in pham
- Manual Annotations of this start: 11 of 17
- Called 91.7% of time when present
- Phage (with cluster) where this start called: Alleb\_63 (ED1), DejaVu\_66 (ED1), Hubbs\_65 (ED1), Jacko\_65 (ED1), Lupine\_63 (ED1), Pavlo\_64 (ED1), PhillyPhilly\_64 (ED1), Pioneer3\_62 (ED1), Roman\_66 (ED1), Tandem\_62 (ED1), Wolfstar\_67 (ED),

### Summary by clusters:

There are 6 clusters represented in this pham: singleton, ED, BT, ED1, AY, FN,

Info for manual annotations of cluster AY:

- Start number 17 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster BT:

- Start number 17 was manually annotated 1 time for cluster BT.

Info for manual annotations of cluster ED:

- Start number 18 was manually annotated 1 time for cluster ED.

Info for manual annotations of cluster ED1:

- Start number 18 was manually annotated 10 times for cluster ED1.

Info for manual annotations of cluster FN:

- Start number 14 was manually annotated 1 time for cluster FN.
- Start number 17 was manually annotated 1 time for cluster FN.

### **Gene Information:**

Gene: AbbyDaisy\_86 Start: 49683, Stop: 50093, Start Num: 17

Candidate Starts for AbbyDaisy\_86:

(Start: 17 @49683 has 3 MA's), (27, 49761), (33, 49791), (37, 49815), (48, 49884), (56, 50025), (58, 50076),

Gene: Alleb\_63 Start: 38335, Stop: 37907, Start Num: 18

Candidate Starts for Alleb\_63:

(16, 38347), (Start: 18 @38335 has 11 MA's), (21, 38314), (48, 38128), (53, 38041),

Gene: Bauer\_80 Start: 44429, Stop: 44842, Start Num: 17

Candidate Starts for Bauer\_80:

(Start: 14 @44420 has 1 MA's), (Start: 17 @44429 has 3 MA's), (34, 44540), (35, 44546), (48, 44633),

Gene: Bimmel\_26 Start: 18034, Stop: 17636, Start Num: 17

Candidate Starts for Bimmel\_26:

(Start: 17 @18034 has 3 MA's), (24, 17968), (27, 17959), (33, 17929), (42, 17869), (45, 17863), (47, 17848), (58, 17650),

Gene: DejaVu\_66 Start: 38300, Stop: 37887, Start Num: 18

Candidate Starts for DejaVu\_66:

(16, 38312), (Start: 18 @38300 has 11 MA's), (20, 38285), (26, 38237), (31, 38216), (32, 38213),

Gene: Hubbs\_65 Start: 38508, Stop: 38095, Start Num: 18

Candidate Starts for Hubbs\_65:

(16, 38520), (Start: 18 @38508 has 11 MA's), (26, 38445), (31, 38424), (32, 38421), (49, 38271), (50, 38253),

Gene: Ibantik\_34 Start: 16596, Stop: 16135, Start Num: 9

Candidate Starts for Ibantik\_34:

(Start: 9 @16596 has 1 MA's), (11, 16572), (22, 16518), (38, 16407), (52, 16260), (57, 16194),

Gene: Jacko\_65 Start: 37248, Stop: 36841, Start Num: 18

Candidate Starts for Jacko\_65:

(Start: 18 @37248 has 11 MA's), (26, 37191), (30, 37176), (48, 37062),

Gene: Lupine\_63 Start: 37714, Stop: 37301, Start Num: 18

Candidate Starts for Lupine\_63:

(16, 37726), (Start: 18 @37714 has 11 MA's), (23, 37687), (26, 37651), (31, 37630), (48, 37516), (49, 37477),

Gene: Pavlo\_64 Start: 38359, Stop: 37946, Start Num: 18

Candidate Starts for Pavlo\_64:

(16, 38371), (Start: 18 @38359 has 11 MA's), (20, 38344), (26, 38296), (31, 38275), (32, 38272),

Gene: PhillyPhilly\_64 Start: 37893, Stop: 37480, Start Num: 18

Candidate Starts for PhillyPhilly\_64:

(16, 37905), (Start: 18 @37893 has 11 MA's), (20, 37878), (26, 37830), (31, 37809), (32, 37806),

Gene: Pioneer3\_62 Start: 38332, Stop: 37904, Start Num: 18

Candidate Starts for Pioneer3\_62:

(16, 38344), (Start: 18 @38332 has 11 MA's), (48, 38125), (53, 38038),

Gene: Ponzi\_27 Start: 16304, Stop: 15894, Start Num: 13

Candidate Starts for Ponzi\_27:

(1, 16676), (5, 16490), (Start: 13 @16304 has 1 MA's), (Start: 18 @16280 has 11 MA's), (55, 15995),

Gene: Raqqa\_85 Start: 47700, Stop: 48110, Start Num: 17

Candidate Starts for Raqqa\_85:

(6, 47547), (10, 47676), (Start: 17 @47700 has 3 MA's), (25, 47772), (28, 47781), (29, 47787), (33, 47808),

Gene: Roman\_66 Start: 38562, Stop: 38149, Start Num: 18

Candidate Starts for Roman\_66:

(8, 38655), (12, 38589), (15, 38574), (Start: 18 @38562 has 11 MA's), (20, 38547), (26, 38499), (31, 38478), (32, 38475), (53, 38277),

Gene: Spooks\_27 Start: 19049, Stop: 18648, Start Num: 17

Candidate Starts for Spooks\_27:

(Start: 17 @19049 has 3 MA's), (27, 18974), (33, 18944), (46, 18866), (48, 18848), (51, 18782), (54, 18758), (58, 18662),

Gene: Success\_28 Start: 18270, Stop: 17863, Start Num: 17

Candidate Starts for Success\_28:

(4, 18471), (Start: 17 @18270 has 3 MA's), (39, 18123), (40, 18111), (44, 18096), (51, 17997), (54, 17973), (58, 17877),

Gene: Tandem\_62 Start: 38430, Stop: 38002, Start Num: 18

Candidate Starts for Tandem\_62:

(16, 38442), (Start: 18 @38430 has 11 MA's), (48, 38223), (53, 38136),

Gene: ThayneTheZag\_90 Start: 48316, Stop: 48714, Start Num: 17

Candidate Starts for ThayneTheZag\_90:

(7, 48217), (Start: 17 @48316 has 3 MA's),

Gene: Wolfstar\_67 Start: 39602, Stop: 39174, Start Num: 18

Candidate Starts for Wolfstar\_67:

(2, 39830), (3, 39827), (16, 39614), (Start: 18 @39602 has 11 MA's), (19, 39593), (26, 39539), (41, 39434), (43, 39431), (53, 39305),

Gene: Zucker\_82 Start: 48335, Stop: 48733, Start Num: 14

Candidate Starts for Zucker\_82:

(Start: 14 @48335 has 1 MA's), (Start: 17 @48344 has 3 MA's), (21, 48374), (36, 48473), (48, 48524),