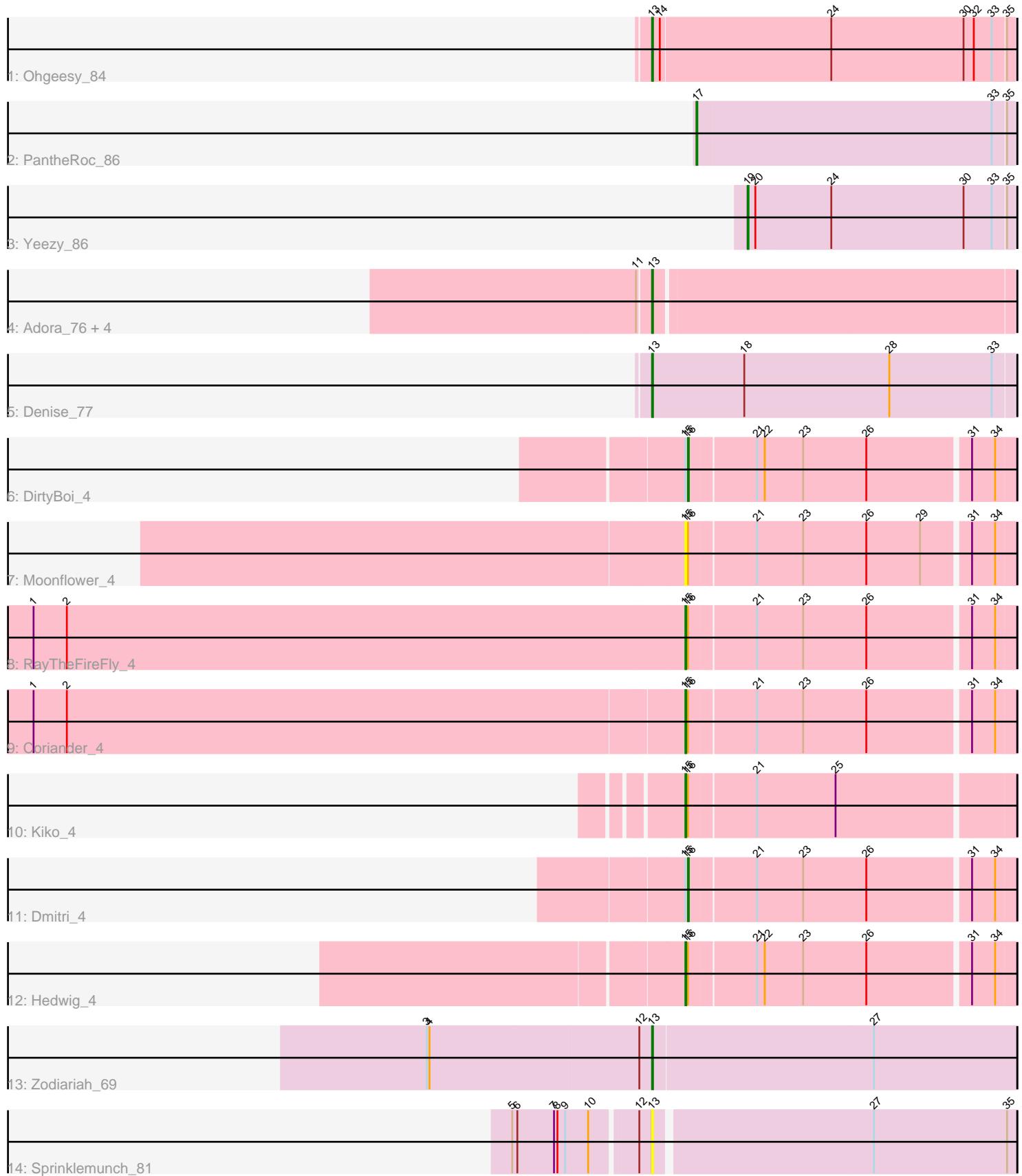


# Pham 280947



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 280947 Report

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

Pham number 280947 has 18 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Ohgeesy\_84
- Track 2 : PantheRoc\_86
- Track 3 : Yeezy\_86
- Track 4 : Adora\_76, Hortense\_79, Shlim410\_77, Howe\_79, Twinkle\_78
- Track 5 : Denise\_77
- Track 6 : DirtyBoi\_4
- Track 7 : Moonflower\_4
- Track 8 : RayTheFireFly\_4
- Track 9 : Coriander\_4
- Track 10 : Kiko\_4
- Track 11 : Dmitri\_4
- Track 12 : Hedwig\_4
- Track 13 : Zodiariah\_69
- Track 14 : Sprinklemunch\_81

### ***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 8 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adora\_76, Denise\_77, Hortense\_79, Howe\_79, Ohgeesy\_84, Shlim410\_77, Sprinklemunch\_81, Twinkle\_78, Zodiariah\_69,

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

- 

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

- Coriander\_4, DirtyBoi\_4, Dmitri\_4, Hedwig\_4, Kiko\_4, Moonflower\_4, PantheRoc\_86, RayTheFireFly\_4, Yeezy\_86,

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

Start 13:

- Found in 9 of 18 ( 50.0% ) of genes in pham
- Manual Annotations of this start: 8 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adora\_76 (CZ4), Denise\_77 (CZ5), Hortense\_79 (CZ4), Howe\_79 (CZ4), Ohgeesy\_84 (CZ), Shlim410\_77 (CZ4), Sprinklemunch\_81 (DW), Twinkle\_78 (CZ4), Zodiariah\_69 (DW),

Start 15:

- Found in 7 of 18 ( 38.9% ) of genes in pham
- Manual Annotations of this start: 4 of 16
- Called 71.4% of time when present
- Phage (with cluster) where this start called: Coriander\_4 (DB), Hedwig\_4 (DB), Kiko\_4 (DB), Moonflower\_4 (DB), RayTheFireFly\_4 (DB),

Start 16:

- Found in 7 of 18 ( 38.9% ) of genes in pham
- Manual Annotations of this start: 2 of 16
- Called 28.6% of time when present
- Phage (with cluster) where this start called: DirtyBoi\_4 (DB), Dmitri\_4 (DB),

Start 17:

- Found in 1 of 18 ( 5.6% ) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: PantheRoc\_86 (CZ3),

Start 19:

- Found in 1 of 18 ( 5.6% ) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Yeezy\_86 (CZ3),

### **Summary by clusters:**

There are 6 clusters represented in this pham: CZ3, DB, CZ4, CZ5, CZ, DW,

Info for manual annotations of cluster CZ:

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

Info for manual annotations of cluster CZ3:

- Start number 17 was manually annotated 1 time for cluster CZ3.
- Start number 19 was manually annotated 1 time for cluster CZ3.

Info for manual annotations of cluster CZ4:

- Start number 13 was manually annotated 5 times for cluster CZ4.

Info for manual annotations of cluster CZ5:

- Start number 13 was manually annotated 1 time for cluster CZ5.

Info for manual annotations of cluster DB:

- Start number 15 was manually annotated 4 times for cluster DB.
- Start number 16 was manually annotated 2 times for cluster DB.

Info for manual annotations of cluster DW:

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

### ***Gene Information:***

Gene: Adora\_76 Start: 50971, Stop: 51381, Start Num: 13

Candidate Starts for Adora\_76:

(11, 50956), (Start: 13 @50971 has 8 MA's),

Gene: Coriander\_4 Start: 3569, Stop: 3937, Start Num: 15

Candidate Starts for Coriander\_4:

(1, 2813), (2, 2852), (Start: 15 @3569 has 4 MA's), (Start: 16 @3572 has 2 MA's), (21, 3647), (23, 3701), (26, 3773), (31, 3887), (34, 3914),

Gene: Denise\_77 Start: 44257, Stop: 44676, Start Num: 13

Candidate Starts for Denise\_77:

(Start: 13 @44257 has 8 MA's), (18, 44365), (28, 44533), (33, 44653),

Gene: DirtyBoi\_4 Start: 3575, Stop: 3940, Start Num: 16

Candidate Starts for DirtyBoi\_4:

(Start: 15 @3572 has 4 MA's), (Start: 16 @3575 has 2 MA's), (21, 3650), (22, 3659), (23, 3704), (26, 3776), (31, 3890), (34, 3917),

Gene: Dmitri\_4 Start: 3575, Stop: 3940, Start Num: 16

Candidate Starts for Dmitri\_4:

(Start: 15 @3572 has 4 MA's), (Start: 16 @3575 has 2 MA's), (21, 3650), (23, 3704), (26, 3776), (31, 3890), (34, 3917),

Gene: Hedwig\_4 Start: 3569, Stop: 3937, Start Num: 15

Candidate Starts for Hedwig\_4:

(Start: 15 @3569 has 4 MA's), (Start: 16 @3572 has 2 MA's), (21, 3647), (22, 3656), (23, 3701), (26, 3773), (31, 3887), (34, 3914),

Gene: Hortense\_79 Start: 52326, Stop: 52736, Start Num: 13

Candidate Starts for Hortense\_79:

(11, 52311), (Start: 13 @52326 has 8 MA's),

Gene: Howe\_79 Start: 52326, Stop: 52736, Start Num: 13

Candidate Starts for Howe\_79:

(11, 52311), (Start: 13 @52326 has 8 MA's),

Gene: Kiko\_4 Start: 3441, Stop: 3809, Start Num: 15

Candidate Starts for Kiko\_4:

(Start: 15 @3441 has 4 MA's), (Start: 16 @3444 has 2 MA's), (21, 3519), (25, 3609),

Gene: Moonflower\_4 Start: 3574, Stop: 3942, Start Num: 15

Candidate Starts for Moonflower\_4:

(Start: 15 @3574 has 4 MA's), (Start: 16 @3577 has 2 MA's), (21, 3652), (23, 3706), (26, 3778), (29, 3841), (31, 3892), (34, 3919),

Gene: Ohgeesy\_84 Start: 52600, Stop: 53016, Start Num: 13

Candidate Starts for Ohgeesy\_84:

(Start: 13 @52600 has 8 MA's), (14, 52609), (24, 52807), (30, 52960), (32, 52972), (33, 52993), (35, 53008),

Gene: PantheRoc\_86 Start: 52720, Stop: 53085, Start Num: 17

Candidate Starts for PantheRoc\_86:

(Start: 17 @52720 has 1 MA's), (33, 53062), (35, 53077),

Gene: RayTheFireFly\_4 Start: 3578, Stop: 3946, Start Num: 15

Candidate Starts for RayTheFireFly\_4:

(1, 2816), (2, 2855), (Start: 15 @3578 has 4 MA's), (Start: 16 @3581 has 2 MA's), (21, 3656), (23, 3710), (26, 3782), (31, 3896), (34, 3923),

Gene: Shlim410\_77 Start: 52326, Stop: 52736, Start Num: 13

Candidate Starts for Shlim410\_77:

(11, 52311), (Start: 13 @52326 has 8 MA's),

Gene: Sprinklemunch\_81 Start: 50969, Stop: 51382, Start Num: 13

Candidate Starts for Sprinklemunch\_81:

(5, 50819), (6, 50825), (7, 50867), (8, 50870), (9, 50879), (10, 50906), (12, 50954), (Start: 13 @50969 has 8 MA's), (27, 51215), (35, 51371),

Gene: Twinkle\_78 Start: 53385, Stop: 53795, Start Num: 13

Candidate Starts for Twinkle\_78:

(11, 53370), (Start: 13 @53385 has 8 MA's),

Gene: Yeezy\_86 Start: 51123, Stop: 51428, Start Num: 19

Candidate Starts for Yeezy\_86:

(Start: 19 @51123 has 1 MA's), (20, 51132), (24, 51219), (30, 51372), (33, 51405), (35, 51420),

Gene: Zodiariah\_69 Start: 50344, Stop: 50766, Start Num: 13

Candidate Starts for Zodiariah\_69:

(3, 50083), (4, 50086), (12, 50329), (Start: 13 @50344 has 8 MA's), (27, 50599),