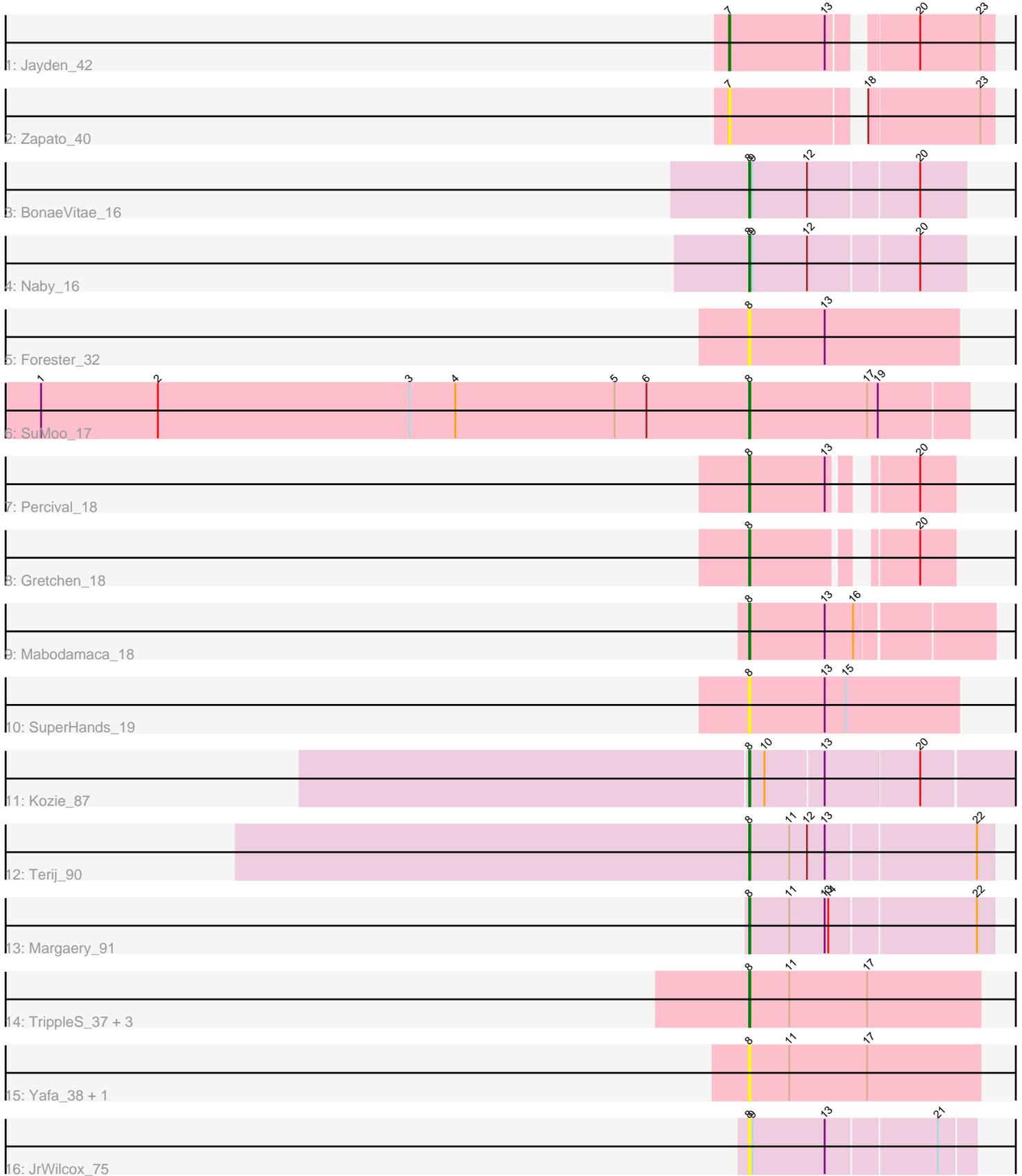


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 284205 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284205 has 20 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Jayden\_42
- Track 2 : Zapato\_40
- Track 3 : BonaeVitae\_16
- Track 4 : Naby\_16
- Track 5 : Forester\_32
- Track 6 : SuMoo\_17
- Track 7 : Percival\_18
- Track 8 : Gretchen\_18
- Track 9 : Mabodamaca\_18
- Track 10 : SuperHands\_19
- Track 11 : Kozie\_87
- Track 12 : Terij\_90
- Track 13 : Margaery\_91
- Track 14 : TrippleS\_37, Morrill\_36, Astartes\_38, Atraxi\_36
- Track 15 : Yafa\_38, ThirteenKH\_37
- Track 16 : JrWilcox\_75

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

The start number called the most often in the published annotations is 8, it was called in 13 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Astartes\_38, Atraxi\_36, BonaeVitae\_16, Forester\_32, Gretchen\_18, JrWilcox\_75, Kozie\_87, Mabodamaca\_18, Margaery\_91, Morrill\_36, Naby\_16, Percival\_18, SuMoo\_17, SuperHands\_19, Terij\_90, ThirteenKH\_37, TrippleS\_37, Yafa\_38,

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

- 

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

- Jayden\_42, Zapato\_40,

**Summary by start number:**

Start 7:

- Found in 2 of 20 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jayden\_42 (EC), Zapato\_40 (EC),

Start 8:

- Found in 18 of 20 ( 90.0% ) of genes in pham
- Manual Annotations of this start: 13 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Astartes\_38 (EK2), Atraxi\_36 (EK2), BonaeVitae\_16 (EE), Forester\_32 (EH), Gretchen\_18 (EH), JrWilcox\_75 (GL), Kozie\_87 (EI), Mabodamaca\_18 (EH), Margaery\_91 (EI), Morrill\_36 (EK2), Naby\_16 (EE), Percival\_18 (EH), SuMoo\_17 (EH), SuperHands\_19 (EH), Terij\_90 (EI), ThirteenKH\_37 (EK2), TrippleS\_37 (EK2), Yafa\_38 (EK2),

**Summary by clusters:**

There are 6 clusters represented in this pham: EI, EH, EE, EC, GL, EK2,

Info for manual annotations of cluster EC:

- Start number 7 was manually annotated 1 time for cluster EC.

Info for manual annotations of cluster EE:

- Start number 8 was manually annotated 2 times for cluster EE.

Info for manual annotations of cluster EH:

- Start number 8 was manually annotated 4 times for cluster EH.

Info for manual annotations of cluster EI:

- Start number 8 was manually annotated 3 times for cluster EI.

Info for manual annotations of cluster EK2:

- Start number 8 was manually annotated 4 times for cluster EK2.

**Gene Information:**

Gene: Astartes\_38 Start: 40003, Stop: 40197, Start Num: 8

Candidate Starts for Astartes\_38:

(Start: 8 @40003 has 13 MA's), (11, 40036), (17, 40102),

Gene: Atraxi\_36 Start: 39795, Stop: 39989, Start Num: 8

Candidate Starts for Atraxi\_36:

(Start: 8 @39795 has 13 MA's), (11, 39828), (17, 39894),

Gene: BonaeVitae\_16 Start: 12640, Stop: 12816, Start Num: 8

Candidate Starts for BonaeVitae\_16:

(Start: 8 @12640 has 13 MA's), (9, 12643), (12, 12688), (20, 12778),

Gene: Forester\_32 Start: 17625, Stop: 17801, Start Num: 8  
Candidate Starts for Forester\_32:  
(Start: 8 @17625 has 13 MA's), (13, 17688),

Gene: Gretchen\_18 Start: 16935, Stop: 17081, Start Num: 8  
Candidate Starts for Gretchen\_18:  
(Start: 8 @16935 has 13 MA's), (20, 17052),

Gene: Jayden\_42 Start: 29988, Stop: 30191, Start Num: 7  
Candidate Starts for Jayden\_42:  
(Start: 7 @29988 has 1 MA's), (13, 30069), (20, 30129), (23, 30180),

Gene: JrWilcox\_75 Start: 41002, Stop: 41184, Start Num: 8  
Candidate Starts for JrWilcox\_75:  
(Start: 8 @41002 has 13 MA's), (9, 41005), (13, 41065), (21, 41155),

Gene: Kozie\_87 Start: 52132, Stop: 52371, Start Num: 8  
Candidate Starts for Kozie\_87:  
(Start: 8 @52132 has 13 MA's), (10, 52144), (13, 52192), (20, 52270),

Gene: Mabodamaca\_18 Start: 16125, Stop: 16322, Start Num: 8  
Candidate Starts for Mabodamaca\_18:  
(Start: 8 @16125 has 13 MA's), (13, 16188), (16, 16212),

Gene: Margaery\_91 Start: 53390, Stop: 53590, Start Num: 8  
Candidate Starts for Margaery\_91:  
(Start: 8 @53390 has 13 MA's), (11, 53423), (13, 53453), (14, 53456), (22, 53576),

Gene: Morrill\_36 Start: 39776, Stop: 39970, Start Num: 8  
Candidate Starts for Morrill\_36:  
(Start: 8 @39776 has 13 MA's), (11, 39809), (17, 39875),

Gene: Naby\_16 Start: 12637, Stop: 12813, Start Num: 8  
Candidate Starts for Naby\_16:  
(Start: 8 @12637 has 13 MA's), (9, 12640), (12, 12685), (20, 12775),

Gene: Percival\_18 Start: 16769, Stop: 16915, Start Num: 8  
Candidate Starts for Percival\_18:  
(Start: 8 @16769 has 13 MA's), (13, 16832), (20, 16886),

Gene: SuMoo\_17 Start: 15090, Stop: 15272, Start Num: 8  
Candidate Starts for SuMoo\_17:  
(1, 14490), (2, 14589), (3, 14802), (4, 14841), (5, 14976), (6, 15003), (Start: 8 @15090 has 13 MA's),  
(17, 15189), (19, 15198),

Gene: SuperHands\_19 Start: 17631, Stop: 17807, Start Num: 8  
Candidate Starts for SuperHands\_19:  
(Start: 8 @17631 has 13 MA's), (13, 17694), (15, 17712),

Gene: Terij\_90 Start: 52970, Stop: 53170, Start Num: 8  
Candidate Starts for Terij\_90:  
(Start: 8 @52970 has 13 MA's), (11, 53003), (12, 53018), (13, 53033), (22, 53156),

Gene: ThirteenKH\_37 Start: 39786, Stop: 39980, Start Num: 8  
Candidate Starts for ThirteenKH\_37:  
(Start: 8 @39786 has 13 MA's), (11, 39819), (17, 39885),

Gene: TrippleS\_37 Start: 39934, Stop: 40128, Start Num: 8  
Candidate Starts for TrippleS\_37:  
(Start: 8 @39934 has 13 MA's), (11, 39967), (17, 40033),

Gene: Yafa\_38 Start: 39690, Stop: 39884, Start Num: 8  
Candidate Starts for Yafa\_38:  
(Start: 8 @39690 has 13 MA's), (11, 39723), (17, 39789),

Gene: Zapato\_40 Start: 29806, Stop: 30009, Start Num: 7  
Candidate Starts for Zapato\_40:  
(Start: 7 @29806 has 1 MA's), (18, 29905), (23, 29998),