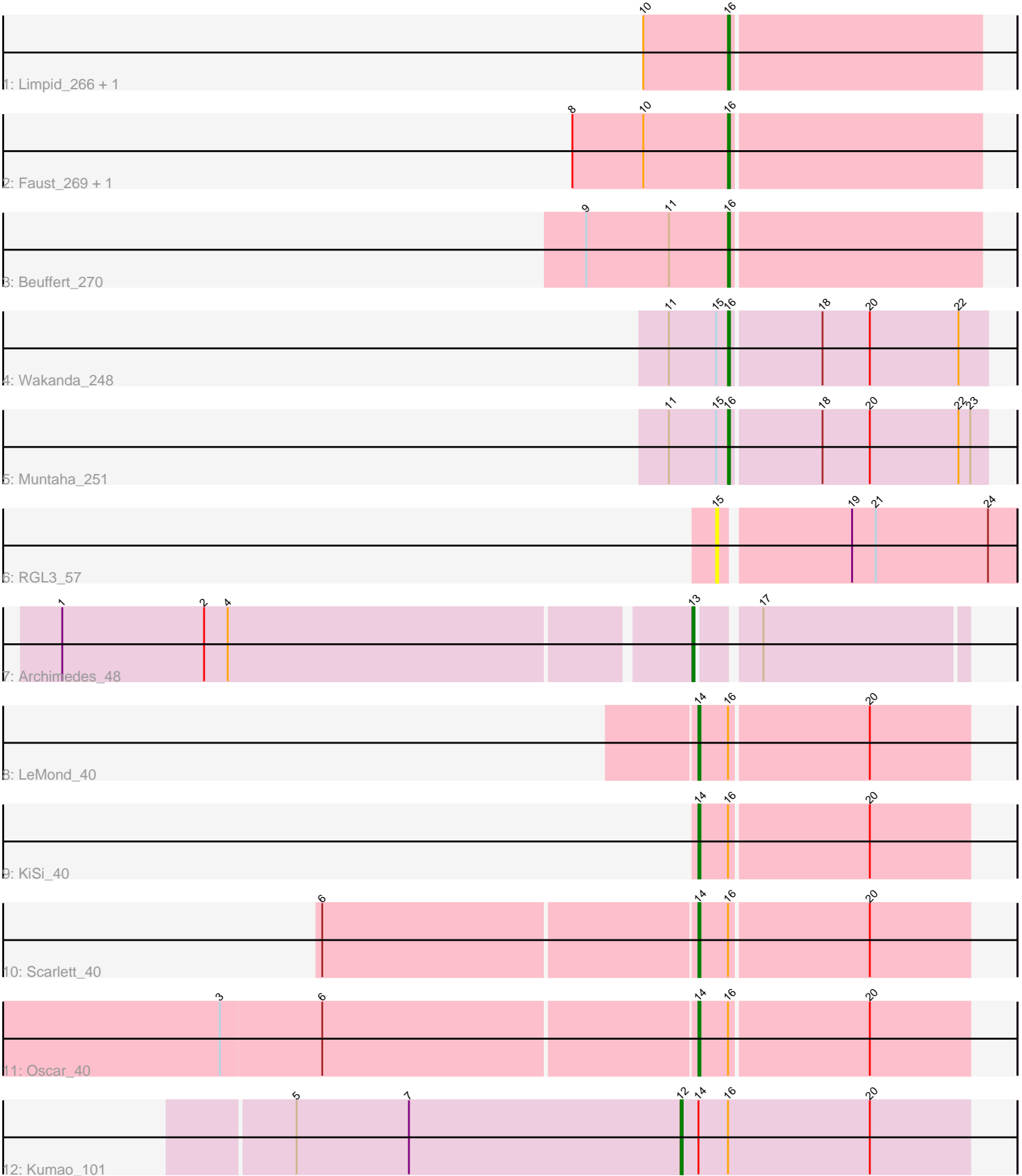


Pham 153624



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 153624 Report

This analysis was run 04/28/24 on database version 559.

Pham number 153624 has 14 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Limpid\_266, Annadreamy\_260
- Track 2 : Faust\_269, SeresaTree\_274
- Track 3 : Beuffert\_270
- Track 4 : Wakanda\_248
- Track 5 : Muntaha\_251
- Track 6 : RGL3\_57
- Track 7 : Archimedes\_48
- Track 8 : LeMond\_40
- Track 9 : KiSi\_40
- Track 10 : Scarlett\_40
- Track 11 : Oscar\_40
- Track 12 : Kumao\_101

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

The start number called the most often in the published annotations is 16, it was called in 6 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Annadreamy\_260, Beuffert\_270, Faust\_269, Limpid\_266, Muntaha\_251, SeresaTree\_274, Wakanda\_248,

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

- KiSi\_40, Kumao\_101, LeMond\_40, Oscar\_40, Scarlett\_40,

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

- Archimedes\_48, RGL3\_57,

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

Start 12:

- Found in 1 of 14 ( 7.1% ) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Kumao\_101 (singleton),

Start 13:

- Found in 1 of 14 ( 7.1% ) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Archimedes\_48 (DA),

Start 14:

- Found in 5 of 14 ( 35.7% ) of genes in pham
- Manual Annotations of this start: 4 of 12
- Called 80.0% of time when present
- Phage (with cluster) where this start called: KiSi\_40 (K1), LeMond\_40 (K1), Oscar\_40 (K1), Scarlett\_40 (K1),

Start 15:

- Found in 3 of 14 ( 21.4% ) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: RGL3\_57 (CA),

Start 16:

- Found in 12 of 14 ( 85.7% ) of genes in pham
- Manual Annotations of this start: 6 of 12
- Called 58.3% of time when present
- Phage (with cluster) where this start called: Annadreamy\_260 (BK1), Beuffert\_270 (BK1), Faust\_269 (BK1), Limpid\_266 (BK1), Muntaha\_251 (BK2), SeresaTree\_274 (BK1), Wakanda\_248 (BK2),

### **Summary by clusters:**

There are 6 clusters represented in this pham: singleton, CA, DA, K1, BK1, BK2,

Info for manual annotations of cluster BK1:

- Start number 16 was manually annotated 4 times for cluster BK1.

Info for manual annotations of cluster BK2:

- Start number 16 was manually annotated 2 times for cluster BK2.

Info for manual annotations of cluster DA:

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

Info for manual annotations of cluster K1:

- Start number 14 was manually annotated 4 times for cluster K1.

### **Gene Information:**

Gene: Annadreamy\_260 Start: 123595, Stop: 123720, Start Num: 16

Candidate Starts for Annadreamy\_260:

(10, 123553), (Start: 16 @123595 has 6 MA's),

Gene: Archimedes\_48 Start: 39524, Stop: 39652, Start Num: 13

Candidate Starts for Archimedes\_48:

(1, 39215), (2, 39287), (4, 39299), (Start: 13 @39524 has 1 MA's), (17, 39551),

Gene: Beuffert\_270 Start: 127821, Stop: 127946, Start Num: 16

Candidate Starts for Beuffert\_270:

(9, 127749), (11, 127791), (Start: 16 @127821 has 6 MA's),

Gene: Faust\_269 Start: 128546, Stop: 128671, Start Num: 16

Candidate Starts for Faust\_269:

(8, 128468), (10, 128504), (Start: 16 @128546 has 6 MA's),

Gene: KiSi\_40 Start: 30379, Stop: 30513, Start Num: 14

Candidate Starts for KiSi\_40:

(Start: 14 @30379 has 4 MA's), (Start: 16 @30394 has 6 MA's), (20, 30463),

Gene: Kumao\_101 Start: 62800, Stop: 62654, Start Num: 12

Candidate Starts for Kumao\_101:

(5, 62995), (7, 62938), (Start: 12 @62800 has 1 MA's), (Start: 14 @62791 has 4 MA's), (Start: 16 @62776 has 6 MA's), (20, 62704),

Gene: LeMond\_40 Start: 30450, Stop: 30584, Start Num: 14

Candidate Starts for LeMond\_40:

(Start: 14 @30450 has 4 MA's), (Start: 16 @30465 has 6 MA's), (20, 30534),

Gene: Limpid\_266 Start: 128908, Stop: 129033, Start Num: 16

Candidate Starts for Limpid\_266:

(10, 128866), (Start: 16 @128908 has 6 MA's),

Gene: Muntaha\_251 Start: 119218, Stop: 119346, Start Num: 16

Candidate Starts for Muntaha\_251:

(11, 119188), (15, 119212), (Start: 16 @119218 has 6 MA's), (18, 119263), (20, 119287), (22, 119332), (23, 119338),

Gene: Oscar\_40 Start: 30461, Stop: 30595, Start Num: 14

Candidate Starts for Oscar\_40:

(3, 30224), (6, 30275), (Start: 14 @30461 has 4 MA's), (Start: 16 @30476 has 6 MA's), (20, 30545),

Gene: RGL3\_57 Start: 40481, Stop: 40335, Start Num: 15

Candidate Starts for RGL3\_57:

(15, 40481), (19, 40418), (21, 40406), (24, 40349),

Gene: Scarlett\_40 Start: 30452, Stop: 30586, Start Num: 14

Candidate Starts for Scarlett\_40:

(6, 30266), (Start: 14 @30452 has 4 MA's), (Start: 16 @30467 has 6 MA's), (20, 30536),

Gene: SeresaTree\_274 Start: 128767, Stop: 128892, Start Num: 16

Candidate Starts for SeresaTree\_274:

(8, 128689), (10, 128725), (Start: 16 @128767 has 6 MA's),

Gene: Wakanda\_248 Start: 118433, Stop: 118561, Start Num: 16

Candidate Starts for Wakanda\_248:

(11, 118403), (15, 118427), (Start: 16 @118433 has 6 MA's), (18, 118478), (20, 118502), (22, 118547),