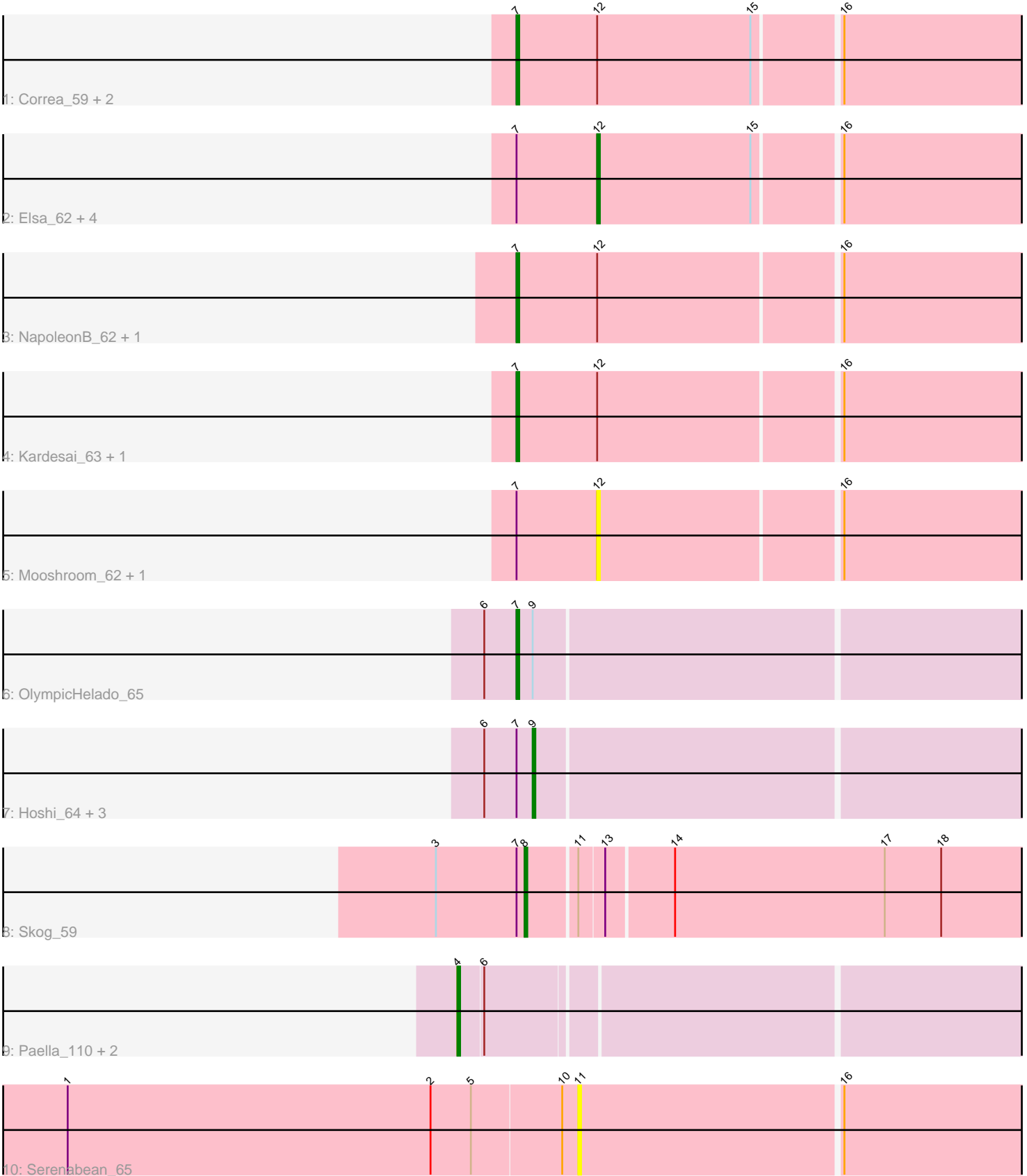


Pham 156629



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 156629 Report

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

Pham number 156629 has 24 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Correa\_59, Tribby\_64, Hankly\_61
- Track 2 : Elsa\_62, Arcadia\_62, Nason\_62, Cheesy\_62, Xenomorph\_59
- Track 3 : NapoleonB\_62, Dynamite\_62
- Track 4 : Kardesai\_63, BenitoAntonio\_62
- Track 5 : Mooshroom\_62, Benllo\_63
- Track 6 : OlympicHelado\_65
- Track 7 : Hoshi\_64, Indigenous\_65, TaidaOne\_65, FidgetOrca\_65
- Track 8 : Skog\_59
- Track 9 : Paella\_110, Qui\_110, Elver\_109
- Track 10 : Serenabean\_65

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

The start number called the most often in the published annotations is 7, it was called in 8 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BenitoAntonio\_62, Correa\_59, Dynamite\_62, Hankly\_61, Kardesai\_63, NapoleonB\_62, OlympicHelado\_65, Tribby\_64,

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

- Arcadia\_62, Benllo\_63, Cheesy\_62, Elsa\_62, FidgetOrca\_65, Hoshi\_64, Indigenous\_65, Mooshroom\_62, Nason\_62, Skog\_59, TaidaOne\_65, Xenomorph\_59,

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

- Elver\_109, Paella\_110, Qui\_110, Serenabean\_65,

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

Start 4:

- Found in 3 of 24 ( 12.5% ) of genes in pham
- Manual Annotations of this start: 2 of 20
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Elver\_109 (FK), Paella\_110 (FK), Qui\_110 (FK),

Start 7:

- Found in 20 of 24 ( 83.3% ) of genes in pham
- Manual Annotations of this start: 8 of 20
- Called 40.0% of time when present
- Phage (with cluster) where this start called: BenitoAntonio\_62 (AM), Correa\_59 (AM), Dynamite\_62 (AM), Hankly\_61 (AM), Kardesai\_63 (AM), NapoleonB\_62 (AM), OlympicHelado\_65 (BI1), Tribby\_64 (AM),

Start 8:

- Found in 1 of 24 ( 4.2% ) of genes in pham
- Manual Annotations of this start: 1 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Skog\_59 (DO),

Start 9:

- Found in 5 of 24 ( 20.8% ) of genes in pham
- Manual Annotations of this start: 4 of 20
- Called 80.0% of time when present
- Phage (with cluster) where this start called: FidgetOrca\_65 (BI1), Hoshi\_64 (BI1), Indigenous\_65 (BI1), TaidaOne\_65 (BI1),

Start 11:

- Found in 2 of 24 ( 8.3% ) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Serenabean\_65 (singleton),

Start 12:

- Found in 14 of 24 ( 58.3% ) of genes in pham
- Manual Annotations of this start: 5 of 20
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Arcadia\_62 (AM), Benllo\_63 (AM), Cheesy\_62 (AM), Elsa\_62 (AM), Mooshroom\_62 (AM), Nason\_62 (AM), Xenomorph\_59 (AM),

### **Summary by clusters:**

There are 5 clusters represented in this pham: DO, singleton, FK, AM, BI1,

Info for manual annotations of cluster AM:

- Start number 7 was manually annotated 7 times for cluster AM.
- Start number 12 was manually annotated 5 times for cluster AM.

Info for manual annotations of cluster BI1:

- Start number 7 was manually annotated 1 time for cluster BI1.
- Start number 9 was manually annotated 4 times for cluster BI1.

Info for manual annotations of cluster DO:

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

Info for manual annotations of cluster FK:

- Start number 4 was manually annotated 2 times for cluster FK.

**Gene Information:**

Gene: Arcadia\_62 Start: 41331, Stop: 41522, Start Num: 12

Candidate Starts for Arcadia\_62:

(Start: 7 @41301 has 8 MA's), (Start: 12 @41331 has 5 MA's), (15, 41388), (16, 41418),

Gene: BenitoAntonio\_62 Start: 40828, Stop: 41037, Start Num: 7

Candidate Starts for BenitoAntonio\_62:

(Start: 7 @40828 has 8 MA's), (Start: 12 @40858 has 5 MA's), (16, 40945),

Gene: Benllo\_63 Start: 41536, Stop: 41715, Start Num: 12

Candidate Starts for Benllo\_63:

(Start: 7 @41506 has 8 MA's), (Start: 12 @41536 has 5 MA's), (16, 41623),

Gene: Cheesy\_62 Start: 41037, Stop: 41201, Start Num: 12

Candidate Starts for Cheesy\_62:

(Start: 7 @41007 has 8 MA's), (Start: 12 @41037 has 5 MA's), (15, 41094), (16, 41124),

Gene: Correa\_59 Start: 40168, Stop: 40362, Start Num: 7

Candidate Starts for Correa\_59:

(Start: 7 @40168 has 8 MA's), (Start: 12 @40198 has 5 MA's), (15, 40255), (16, 40285),

Gene: Dynamite\_62 Start: 41221, Stop: 41427, Start Num: 7

Candidate Starts for Dynamite\_62:

(Start: 7 @41221 has 8 MA's), (Start: 12 @41251 has 5 MA's), (16, 41338),

Gene: Elsa\_62 Start: 41331, Stop: 41522, Start Num: 12

Candidate Starts for Elsa\_62:

(Start: 7 @41301 has 8 MA's), (Start: 12 @41331 has 5 MA's), (15, 41388), (16, 41418),

Gene: Elver\_109 Start: 62996, Stop: 63229, Start Num: 4

Candidate Starts for Elver\_109:

(Start: 4 @62996 has 2 MA's), (6, 63005),

Gene: FidgetOrca\_65 Start: 43068, Stop: 43268, Start Num: 9

Candidate Starts for FidgetOrca\_65:

(6, 43050), (Start: 7 @43062 has 8 MA's), (Start: 9 @43068 has 4 MA's),

Gene: Hankly\_61 Start: 40436, Stop: 40642, Start Num: 7

Candidate Starts for Hankly\_61:

(Start: 7 @40436 has 8 MA's), (Start: 12 @40466 has 5 MA's), (15, 40523), (16, 40553),

Gene: Hoshi\_64 Start: 42675, Stop: 42875, Start Num: 9

Candidate Starts for Hoshi\_64:

(6, 42657), (Start: 7 @42669 has 8 MA's), (Start: 9 @42675 has 4 MA's),

Gene: Indigenous\_65 Start: 43072, Stop: 43272, Start Num: 9

Candidate Starts for Indigenous\_65:

(6, 43054), (Start: 7 @43066 has 8 MA's), (Start: 9 @43072 has 4 MA's),

Gene: Kardesai\_63 Start: 41403, Stop: 41612, Start Num: 7

Candidate Starts for Kardesai\_63:

(Start: 7 @41403 has 8 MA's), (Start: 12 @41433 has 5 MA's), (16, 41520),

Gene: Mooshroom\_62 Start: 41433, Stop: 41612, Start Num: 12

Candidate Starts for Mooshroom\_62:

(Start: 7 @41403 has 8 MA's), (Start: 12 @41433 has 5 MA's), (16, 41520),

Gene: NapoleonB\_62 Start: 41221, Stop: 41427, Start Num: 7

Candidate Starts for NapoleonB\_62:

(Start: 7 @41221 has 8 MA's), (Start: 12 @41251 has 5 MA's), (16, 41338),

Gene: Nason\_62 Start: 41331, Stop: 41522, Start Num: 12

Candidate Starts for Nason\_62:

(Start: 7 @41301 has 8 MA's), (Start: 12 @41331 has 5 MA's), (15, 41388), (16, 41418),

Gene: OlympicHelado\_65 Start: 43129, Stop: 43335, Start Num: 7

Candidate Starts for OlympicHelado\_65:

(6, 43117), (Start: 7 @43129 has 8 MA's), (Start: 9 @43135 has 4 MA's),

Gene: Paella\_110 Start: 63586, Stop: 63819, Start Num: 4

Candidate Starts for Paella\_110:

(Start: 4 @63586 has 2 MA's), (6, 63595),

Gene: Qui\_110 Start: 63586, Stop: 63819, Start Num: 4

Candidate Starts for Qui\_110:

(Start: 4 @63586 has 2 MA's), (6, 63595),

Gene: Serenabean\_65 Start: 43306, Stop: 43491, Start Num: 11

Candidate Starts for Serenabean\_65:

(1, 43117), (2, 43252), (5, 43267), (10, 43300), (11, 43306), (16, 43402),

Gene: Skog\_59 Start: 24389, Stop: 24598, Start Num: 8

Candidate Starts for Skog\_59:

(3, 24356), (Start: 7 @24386 has 8 MA's), (Start: 8 @24389 has 1 MA's), (11, 24407), (13, 24416),  
(14, 24440), (17, 24518), (18, 24539),

Gene: TaidaOne\_65 Start: 43581, Stop: 43781, Start Num: 9

Candidate Starts for TaidaOne\_65:

(6, 43563), (Start: 7 @43575 has 8 MA's), (Start: 9 @43581 has 4 MA's),

Gene: Tribby\_64 Start: 41554, Stop: 41748, Start Num: 7

Candidate Starts for Tribby\_64:

(Start: 7 @41554 has 8 MA's), (Start: 12 @41584 has 5 MA's), (15, 41641), (16, 41671),

Gene: Xenomorph\_59 Start: 41002, Stop: 41193, Start Num: 12

Candidate Starts for Xenomorph\_59:

(Start: 7 @40972 has 8 MA's), (Start: 12 @41002 has 5 MA's), (15, 41059), (16, 41089),