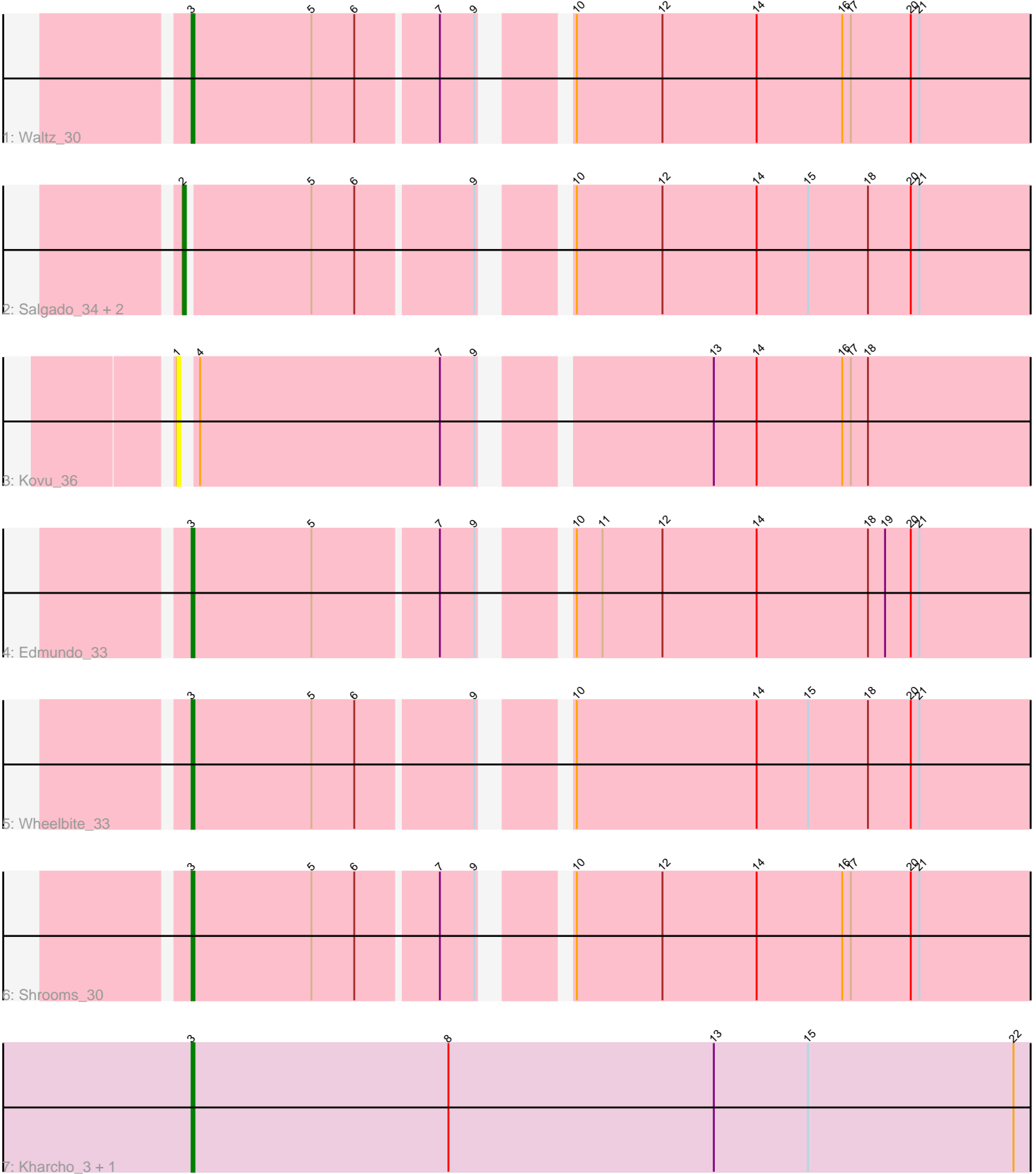


Zoomed Pham 6170



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 6170 Report

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

Pham number 6170 has 10 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Waltz\_30
- Track 2 : Salgado\_34, LiSara\_33, Laroye\_34
- Track 3 : Kovu\_36
- Track 4 : Edmundo\_33
- Track 5 : Wheelbite\_33
- Track 6 : Shrooms\_30
- Track 7 : Kharcho\_3, Ottawa\_3

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

The start number called the most often in the published annotations is 3, it was called in 6 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Edmundo\_33, Kharcho\_3, Ottawa\_3, Shrooms\_30, Waltz\_30, Wheelbite\_33,

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

- 

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

- Kovu\_36, Laroye\_34, LiSara\_33, Salgado\_34,

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

Start 1:

- Found in 1 of 10 ( 10.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kovu\_36 (AL),

Start 2:

- Found in 3 of 10 ( 30.0% ) of genes in pham
- Manual Annotations of this start: 3 of 9
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Laroye\_34 (AL), LiSara\_33 (AL), Salgado\_34 (AL),

Start 3:

- Found in 6 of 10 ( 60.0% ) of genes in pham
- Manual Annotations of this start: 6 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Edmundo\_33 (AL), Kharcho\_3 (FM), Ottawa\_3 (FM), Shrooms\_30 (AL), Waltz\_30 (AL), Wheelbite\_33 (AL),

### **Summary by clusters:**

There are 2 clusters represented in this pham: AL, FM,

Info for manual annotations of cluster AL:

- Start number 2 was manually annotated 3 times for cluster AL.
- Start number 3 was manually annotated 4 times for cluster AL.

Info for manual annotations of cluster FM:

- Start number 3 was manually annotated 2 times for cluster FM.

### **Gene Information:**

Gene: Edmundo\_33 Start: 24237, Stop: 24677, Start Num: 3

Candidate Starts for Edmundo\_33:

(Start: 3 @24237 has 6 MA's), (5, 24279), (7, 24321), (9, 24333), (10, 24354), (11, 24363), (12, 24384), (14, 24417), (18, 24456), (19, 24462), (20, 24471), (21, 24474), (25, 24582),

Gene: Kharcho\_3 Start: 928, Stop: 1383, Start Num: 3

Candidate Starts for Kharcho\_3:

(Start: 3 @928 has 6 MA's), (8, 1018), (13, 1111), (15, 1144), (22, 1216),

Gene: Kovu\_36 Start: 23813, Stop: 24256, Start Num: 1

Candidate Starts for Kovu\_36:

(1, 23813), (4, 23816), (7, 23900), (9, 23912), (13, 23981), (14, 23996), (16, 24026), (17, 24029), (18, 24035), (23, 24107),

Gene: Laroye\_34 Start: 23980, Stop: 24420, Start Num: 2

Candidate Starts for Laroye\_34:

(Start: 2 @23980 has 3 MA's), (5, 24022), (6, 24037), (9, 24076), (10, 24097), (12, 24127), (14, 24160), (15, 24178), (18, 24199), (20, 24214), (21, 24217), (25, 24325),

Gene: LiSara\_33 Start: 23923, Stop: 24363, Start Num: 2

Candidate Starts for LiSara\_33:

(Start: 2 @23923 has 3 MA's), (5, 23965), (6, 23980), (9, 24019), (10, 24040), (12, 24070), (14, 24103), (15, 24121), (18, 24142), (20, 24157), (21, 24160), (25, 24268),

Gene: Ottawa\_3 Start: 928, Stop: 1383, Start Num: 3

Candidate Starts for Ottawa\_3:

(Start: 3 @928 has 6 MA's), (8, 1018), (13, 1111), (15, 1144), (22, 1216),

Gene: Salgado\_34 Start: 23931, Stop: 24371, Start Num: 2

Candidate Starts for Salgado\_34:

(Start: 2 @23931 has 3 MA's), (5, 23973), (6, 23988), (9, 24027), (10, 24048), (12, 24078), (14, 24111), (15, 24129), (18, 24150), (20, 24165), (21, 24168), (25, 24276),

Gene: Shrooms\_30 Start: 21318, Stop: 21758, Start Num: 3

Candidate Starts for Shrooms\_30:

(Start: 3 @21318 has 6 MA's), (5, 21360), (6, 21375), (7, 21402), (9, 21414), (10, 21435), (12, 21465), (14, 21498), (16, 21528), (17, 21531), (20, 21552), (21, 21555), (25, 21663), (26, 21672),

Gene: Waltz\_30 Start: 21398, Stop: 21841, Start Num: 3

Candidate Starts for Waltz\_30:

(Start: 3 @21398 has 6 MA's), (5, 21440), (6, 21455), (7, 21482), (9, 21494), (10, 21515), (12, 21545), (14, 21578), (16, 21608), (17, 21611), (20, 21632), (21, 21635), (26, 21752),

Gene: Wheelbite\_33 Start: 24101, Stop: 24541, Start Num: 3

Candidate Starts for Wheelbite\_33:

(Start: 3 @24101 has 6 MA's), (5, 24143), (6, 24158), (9, 24197), (10, 24218), (14, 24281), (15, 24299), (18, 24320), (20, 24335), (21, 24338), (24, 24422), (25, 24446),