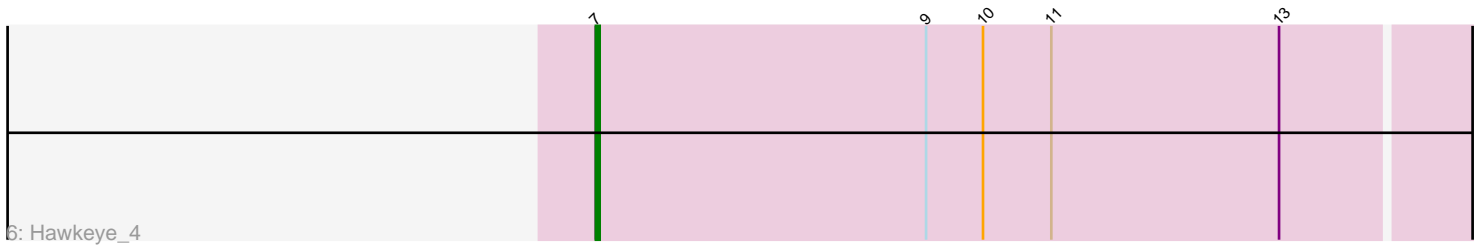
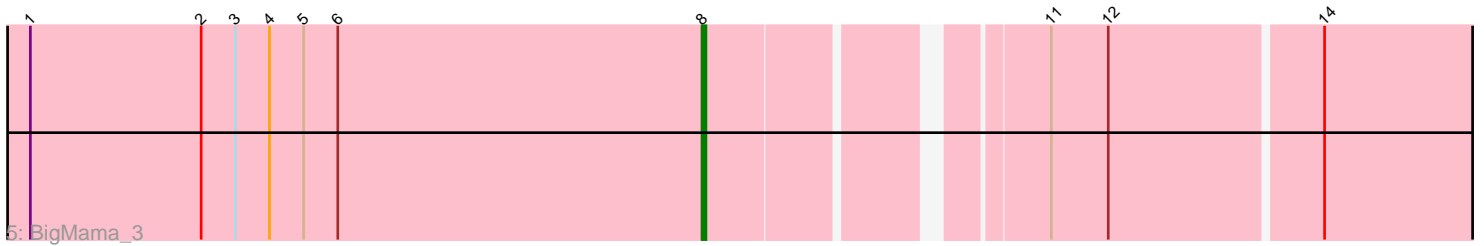
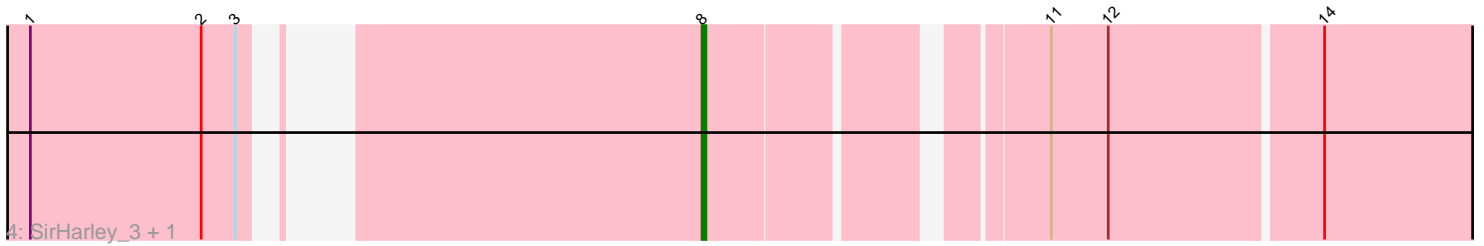
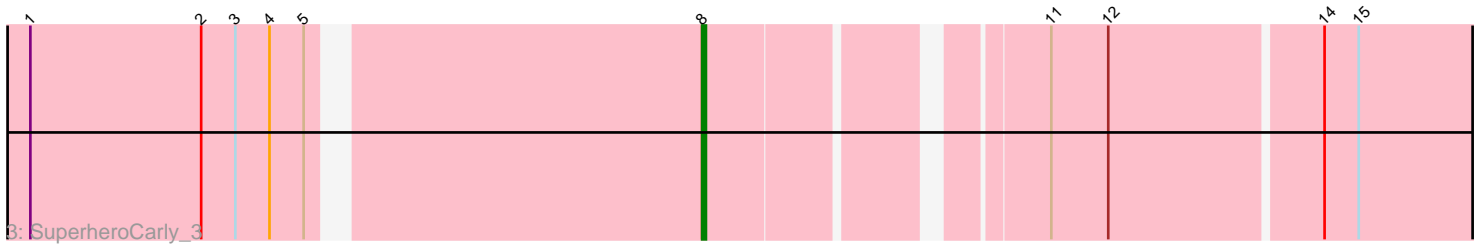
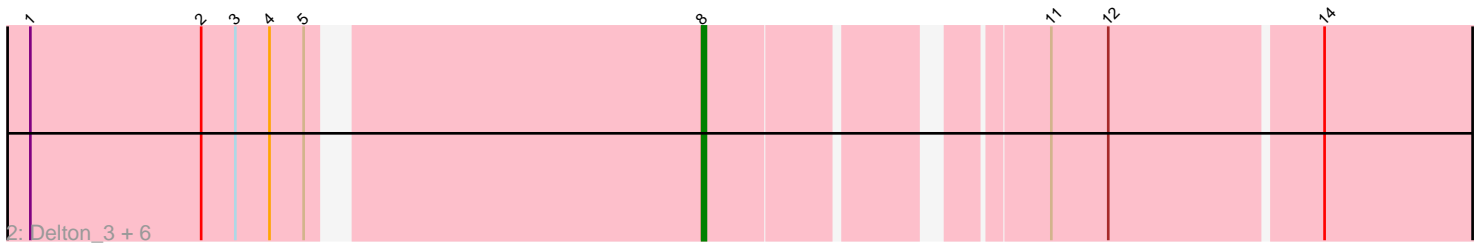
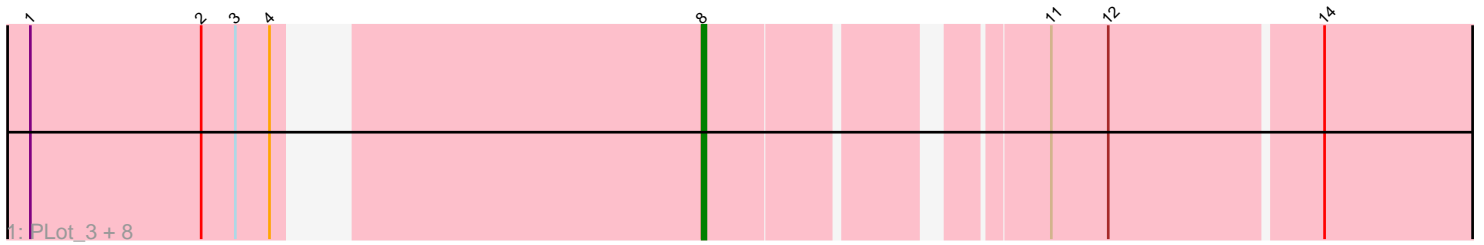


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 309276 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309276 has 21 members, 0 are drafts.

Phages represented in each track:

- Track 1 : PLOT\_3, Troll4\_3, KandZ\_3, Adjuator\_3, Butterscotch\_3, Thoth\_3, PBI1\_3, Penelope2018\_3, Mopey\_3
- Track 2 : Delton\_3, Gumball\_3, Chill\_3, Prager\_3, WaldoWhy\_3, Visconti\_3, Nova\_3
- Track 3 : SuperheroCarly\_3
- Track 4 : SirHarley\_3, Giuseppe\_3
- Track 5 : BigMama\_3
- Track 6 : Hawkeye\_4

### ***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 20 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adjuator\_3, BigMama\_3, Butterscotch\_3, Chill\_3, Delton\_3, Giuseppe\_3, Gumball\_3, KandZ\_3, Mopey\_3, Nova\_3, PBI1\_3, PLOT\_3, Penelope2018\_3, Prager\_3, SirHarley\_3, SuperheroCarly\_3, Thoth\_3, Troll4\_3, Visconti\_3, WaldoWhy\_3,

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

- 

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

- Hawkeye\_4,

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

Start 7:

- Found in 1 of 21 ( 4.8% ) of genes in pham
- Manual Annotations of this start: 1 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hawkeye\_4 (D2),

Start 8:

- Found in 20 of 21 ( 95.2% ) of genes in pham
- Manual Annotations of this start: 20 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adjutor\_3 (D1), BigMama\_3 (D1), Butterscotch\_3 (D1), Chill\_3 (D1), Delton\_3 (D1), Giuseppe\_3 (D1), Gumball\_3 (D1), KandZ\_3 (D1), Mopey\_3 (D1), Nova\_3 (D1), PBI1\_3 (D1), PLOT\_3 (D1), Penelope2018\_3 (D1), Prager\_3 (D1), SirHarley\_3 (D1), SuperheroCarly\_3 (D1), Thoth\_3 (D1), Troll4\_3 (D1), Visconti\_3 (D1), WaldoWhy\_3 (D1),

### **Summary by clusters:**

There are 2 clusters represented in this pham: D2, D1,

Info for manual annotations of cluster D1:

- Start number 8 was manually annotated 20 times for cluster D1.

Info for manual annotations of cluster D2:

- Start number 7 was manually annotated 1 time for cluster D2.

### **Gene Information:**

Gene: Adjutor\_3 Start: 1568, Stop: 1762, Start Num: 8

Candidate Starts for Adjutor\_3:

(1, 1409), (2, 1454), (3, 1463), (4, 1472), (Start: 8 @1568 has 20 MA's), (11, 1646), (12, 1661), (14, 1715),

Gene: BigMama\_3 Start: 1586, Stop: 1780, Start Num: 8

Candidate Starts for BigMama\_3:

(1, 1409), (2, 1454), (3, 1463), (4, 1472), (5, 1481), (6, 1490), (Start: 8 @1586 has 20 MA's), (11, 1664), (12, 1679), (14, 1733),

Gene: Butterscotch\_3 Start: 1568, Stop: 1762, Start Num: 8

Candidate Starts for Butterscotch\_3:

(1, 1409), (2, 1454), (3, 1463), (4, 1472), (Start: 8 @1568 has 20 MA's), (11, 1646), (12, 1661), (14, 1715),

Gene: Chill\_3 Start: 1577, Stop: 1771, Start Num: 8

Candidate Starts for Chill\_3:

(1, 1409), (2, 1454), (3, 1463), (4, 1472), (5, 1481), (Start: 8 @1577 has 20 MA's), (11, 1655), (12, 1670), (14, 1724),

Gene: Delton\_3 Start: 1577, Stop: 1771, Start Num: 8

Candidate Starts for Delton\_3:

(1, 1409), (2, 1454), (3, 1463), (4, 1472), (5, 1481), (Start: 8 @1577 has 20 MA's), (11, 1655), (12, 1670), (14, 1724),

Gene: Giuseppe\_3 Start: 1559, Stop: 1753, Start Num: 8

Candidate Starts for Giuseppe\_3:

(1, 1409), (2, 1454), (3, 1463), (Start: 8 @1559 has 20 MA's), (11, 1637), (12, 1652), (14, 1706),

Gene: Gumball\_3 Start: 1577, Stop: 1771, Start Num: 8

Candidate Starts for Gumball\_3:

(1, 1409), (2, 1454), (3, 1463), (4, 1472), (5, 1481), (Start: 8 @1577 has 20 MA's), (11, 1655), (12, 1670), (14, 1724),

Gene: Hawkeye\_4 Start: 1960, Stop: 2199, Start Num: 7

Candidate Starts for Hawkeye\_4:

(Start: 7 @1960 has 1 MA's), (9, 2047), (10, 2062), (11, 2080), (13, 2140),

Gene: KandZ\_3 Start: 1568, Stop: 1762, Start Num: 8

Candidate Starts for KandZ\_3:

(1, 1409), (2, 1454), (3, 1463), (4, 1472), (Start: 8 @1568 has 20 MA's), (11, 1646), (12, 1661), (14, 1715),

Gene: Mopey\_3 Start: 1568, Stop: 1762, Start Num: 8

Candidate Starts for Mopey\_3:

(1, 1409), (2, 1454), (3, 1463), (4, 1472), (Start: 8 @1568 has 20 MA's), (11, 1646), (12, 1661), (14, 1715),

Gene: Nova\_3 Start: 1577, Stop: 1771, Start Num: 8

Candidate Starts for Nova\_3:

(1, 1409), (2, 1454), (3, 1463), (4, 1472), (5, 1481), (Start: 8 @1577 has 20 MA's), (11, 1655), (12, 1670), (14, 1724),

Gene: PBI1\_3 Start: 1568, Stop: 1762, Start Num: 8

Candidate Starts for PBI1\_3:

(1, 1409), (2, 1454), (3, 1463), (4, 1472), (Start: 8 @1568 has 20 MA's), (11, 1646), (12, 1661), (14, 1715),

Gene: PLOT\_3 Start: 1568, Stop: 1762, Start Num: 8

Candidate Starts for PLOT\_3:

(1, 1409), (2, 1454), (3, 1463), (4, 1472), (Start: 8 @1568 has 20 MA's), (11, 1646), (12, 1661), (14, 1715),

Gene: Penelope2018\_3 Start: 1568, Stop: 1762, Start Num: 8

Candidate Starts for Penelope2018\_3:

(1, 1409), (2, 1454), (3, 1463), (4, 1472), (Start: 8 @1568 has 20 MA's), (11, 1646), (12, 1661), (14, 1715),

Gene: Prager\_3 Start: 1577, Stop: 1771, Start Num: 8

Candidate Starts for Prager\_3:

(1, 1409), (2, 1454), (3, 1463), (4, 1472), (5, 1481), (Start: 8 @1577 has 20 MA's), (11, 1655), (12, 1670), (14, 1724),

Gene: SirHarley\_3 Start: 1559, Stop: 1753, Start Num: 8

Candidate Starts for SirHarley\_3:

(1, 1409), (2, 1454), (3, 1463), (Start: 8 @1559 has 20 MA's), (11, 1637), (12, 1652), (14, 1706),

Gene: SuperheroCarly\_3 Start: 1577, Stop: 1771, Start Num: 8

Candidate Starts for SuperheroCarly\_3:

(1, 1409), (2, 1454), (3, 1463), (4, 1472), (5, 1481), (Start: 8 @1577 has 20 MA's), (11, 1655), (12, 1670), (14, 1724), (15, 1733),

Gene: Thoth\_3 Start: 1568, Stop: 1762, Start Num: 8

Candidate Starts for Thoth\_3:

(1, 1409), (2, 1454), (3, 1463), (4, 1472), (Start: 8 @1568 has 20 MA's), (11, 1646), (12, 1661), (14, 1715),

Gene: Troll4\_3 Start: 1568, Stop: 1762, Start Num: 8

Candidate Starts for Troll4\_3:

(1, 1409), (2, 1454), (3, 1463), (4, 1472), (Start: 8 @1568 has 20 MA's), (11, 1646), (12, 1661), (14, 1715),

Gene: Visconti\_3 Start: 1577, Stop: 1771, Start Num: 8

Candidate Starts for Visconti\_3:

(1, 1409), (2, 1454), (3, 1463), (4, 1472), (5, 1481), (Start: 8 @1577 has 20 MA's), (11, 1655), (12, 1670), (14, 1724),

Gene: WaldoWhy\_3 Start: 1577, Stop: 1771, Start Num: 8

Candidate Starts for WaldoWhy\_3:

(1, 1409), (2, 1454), (3, 1463), (4, 1472), (5, 1481), (Start: 8 @1577 has 20 MA's), (11, 1655), (12, 1670), (14, 1724),