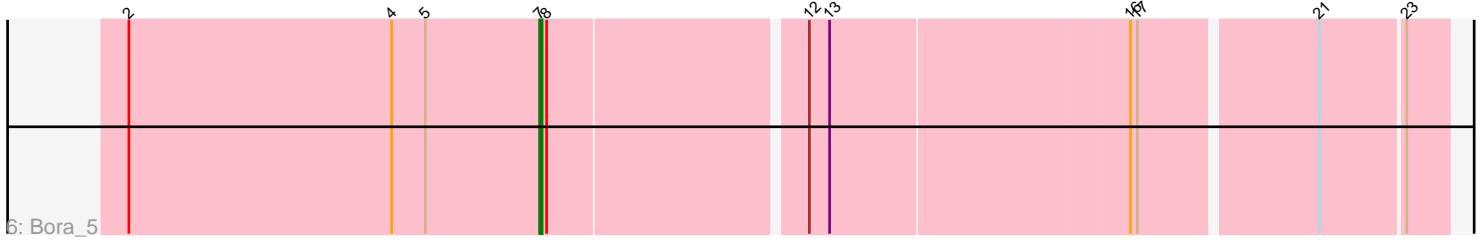
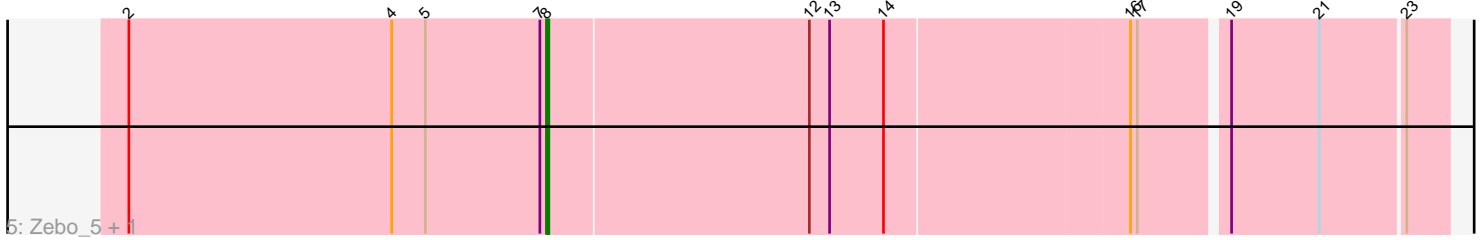
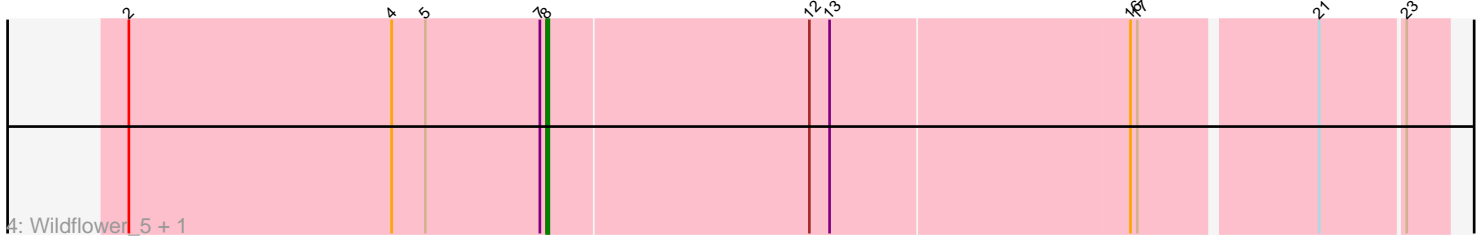
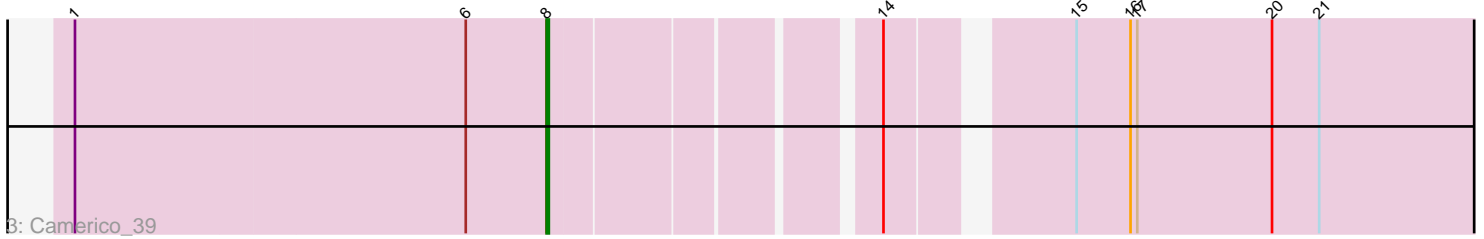
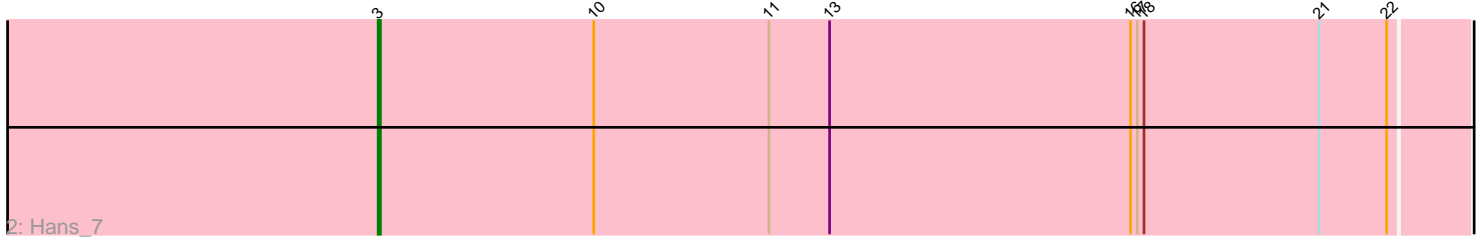
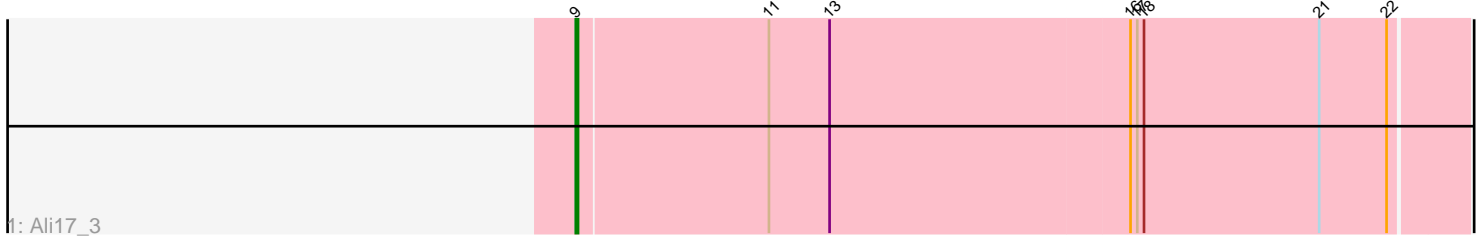


Pham 200940



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 200940 Report

This analysis was run 01/18/25 on database version 583.

Pham number 200940 has 8 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Ali17\_3
- Track 2 : Hans\_7
- Track 3 : Camerico\_39
- Track 4 : Wildflower\_5, Ashwin\_6
- Track 5 : Zebo\_5, Murai\_5
- Track 6 : Bora\_5

### ***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 4 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ashwin\_6, Camerico\_39, Murai\_5, Wildflower\_5, Zebo\_5,

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

- Bora\_5,

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

- Ali17\_3, Hans\_7,

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

Start 3:

- Found in 1 of 8 ( 12.5% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hans\_7 (DE2),

Start 7:

- Found in 5 of 8 ( 62.5% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Bora\_5 (O),

Start 8:

- Found in 6 of 8 ( 75.0% ) of genes in pham
- Manual Annotations of this start: 4 of 7
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Ashwin\_6 (O), Camerico\_39 (DF), Murai\_5 (O), Wildflower\_5 (O), Zebo\_5 (O),

Start 9:

- Found in 1 of 8 ( 12.5% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ali17\_3 (DE2),

**Summary by clusters:**

There are 3 clusters represented in this pham: DF, DE2, O,

Info for manual annotations of cluster DE2:

- Start number 3 was manually annotated 1 time for cluster DE2.
- Start number 9 was manually annotated 1 time for cluster DE2.

Info for manual annotations of cluster DF:

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

Info for manual annotations of cluster O:

- Start number 7 was manually annotated 1 time for cluster O.
- Start number 8 was manually annotated 3 times for cluster O.

**Gene Information:**

Gene: Ali17\_3 Start: 3303, Stop: 3692, Start Num: 9

Candidate Starts for Ali17\_3:

(Start: 9 @3303 has 1 MA's), (11, 3387), (13, 3414), (16, 3546), (17, 3549), (18, 3552), (21, 3630), (22, 3660),

Gene: Ashwin\_6 Start: 1973, Stop: 1590, Start Num: 8

Candidate Starts for Ashwin\_6:

(2, 2159), (4, 2042), (5, 2027), (Start: 7 @1976 has 1 MA's), (Start: 8 @1973 has 4 MA's), (12, 1859), (13, 1850), (16, 1721), (17, 1718), (21, 1643), (23, 1607),

Gene: Bora\_5 Start: 1666, Stop: 1286, Start Num: 7

Candidate Starts for Bora\_5:

(2, 1849), (4, 1732), (5, 1717), (Start: 7 @1666 has 1 MA's), (Start: 8 @1663 has 4 MA's), (12, 1555), (13, 1546), (16, 1417), (17, 1414), (21, 1339), (23, 1303),

Gene: Camerico\_39 Start: 42850, Stop: 43254, Start Num: 8

Candidate Starts for Camerico\_39:

(1, 42643), (6, 42814), (Start: 8 @42850 has 4 MA's), (14, 42979), (15, 43048), (16, 43072), (17, 43075), (20, 43135), (21, 43156),

Gene: Hans\_7 Start: 4390, Stop: 4869, Start Num: 3

Candidate Starts for Hans\_7:

(Start: 3 @4390 has 1 MA's), (10, 4486), (11, 4564), (13, 4591), (16, 4723), (17, 4726), (18, 4729), (21, 4807), (22, 4837),

Gene: Murai\_5 Start: 1530, Stop: 1147, Start Num: 8

Candidate Starts for Murai\_5:

(2, 1716), (4, 1599), (5, 1584), (Start: 7 @1533 has 1 MA's), (Start: 8 @1530 has 4 MA's), (12, 1416), (13, 1407), (14, 1383), (16, 1278), (17, 1275), (19, 1239), (21, 1200), (23, 1164),

Gene: Wildflower\_5 Start: 1625, Stop: 1242, Start Num: 8

Candidate Starts for Wildflower\_5:

(2, 1811), (4, 1694), (5, 1679), (Start: 7 @1628 has 1 MA's), (Start: 8 @1625 has 4 MA's), (12, 1511), (13, 1502), (16, 1373), (17, 1370), (21, 1295), (23, 1259),

Gene: Zebo\_5 Start: 1579, Stop: 1196, Start Num: 8

Candidate Starts for Zebo\_5:

(2, 1765), (4, 1648), (5, 1633), (Start: 7 @1582 has 1 MA's), (Start: 8 @1579 has 4 MA's), (12, 1465), (13, 1456), (14, 1432), (16, 1327), (17, 1324), (19, 1288), (21, 1249), (23, 1213),