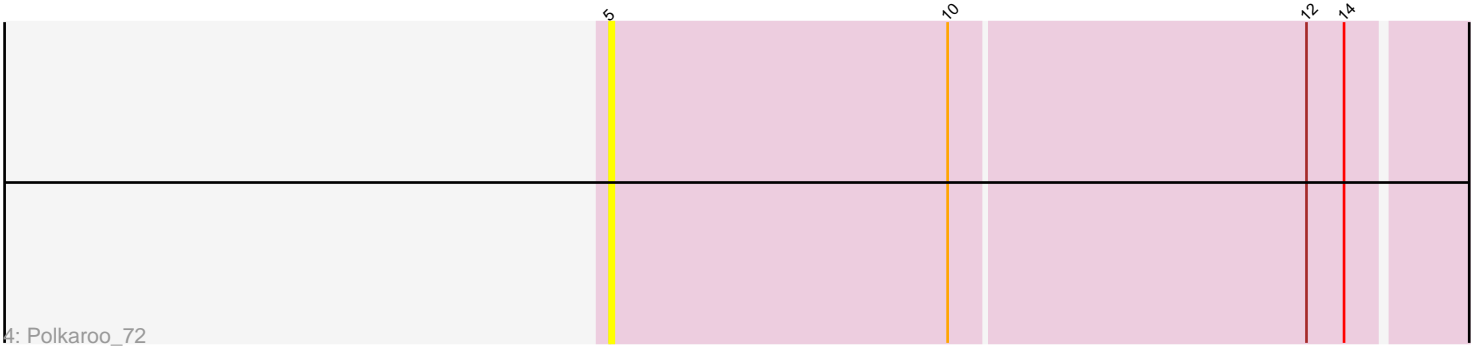
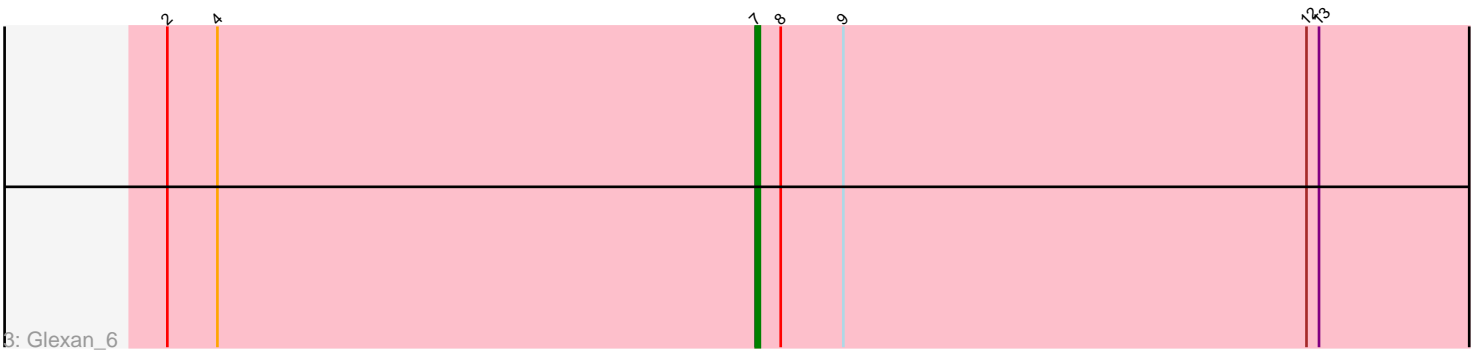
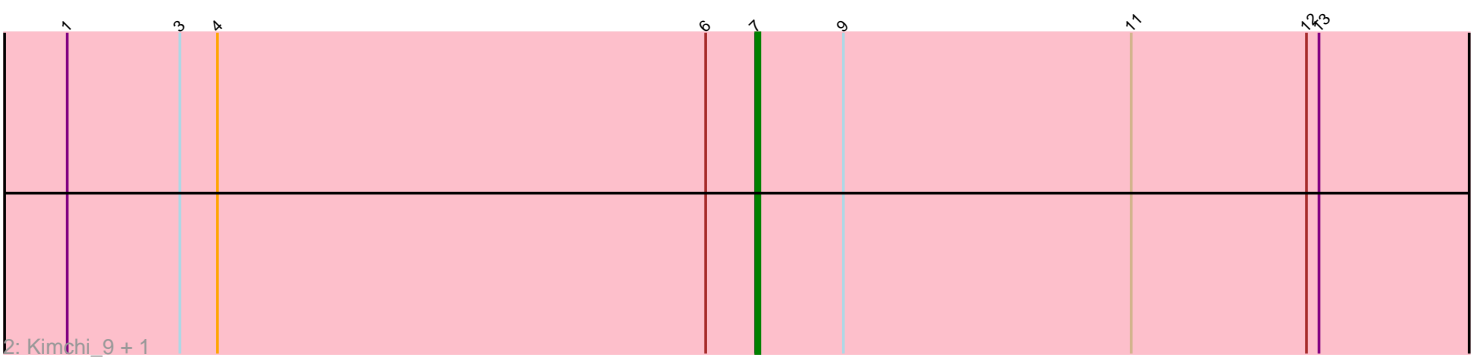
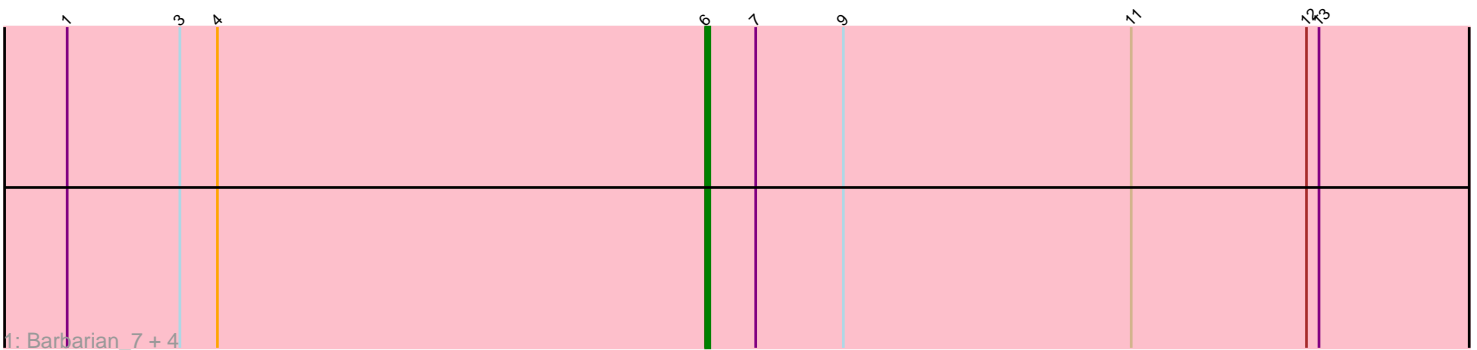


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 87731 Report

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

Pham number 87731 has 9 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Barbarian\_7, Asriel\_7, FireRed\_7, Gage\_9, Sotrice96\_8
- Track 2 : Kimchi\_9, TBrady12\_9
- Track 3 : Glexan\_6
- Track 4 : Polkaroo\_72

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

The start number called the most often in the published annotations is 6, it was called in 5 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Asriel\_7, Barbarian\_7, FireRed\_7, Gage\_9, Sotrice96\_8,

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

- Kimchi\_9, TBrady12\_9,

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

- Glexan\_6, Polkaroo\_72,

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

Start 5:

- Found in 1 of 9 ( 11.1% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Polkaroo\_72 (P1),

Start 6:

- Found in 7 of 9 ( 77.8% ) of genes in pham
- Manual Annotations of this start: 5 of 8
- Called 71.4% of time when present
- Phage (with cluster) where this start called: Asriel\_7 (E), Barbarian\_7 (E), FireRed\_7 (E), Gage\_9 (E), Sotrice96\_8 (E),

Start 7:

- Found in 8 of 9 ( 88.9% ) of genes in pham
- Manual Annotations of this start: 3 of 8
- Called 37.5% of time when present
- Phage (with cluster) where this start called: Glexan\_6 (E), Kimchi\_9 (E), TBrady12\_9 (E),

### **Summary by clusters:**

There are 2 clusters represented in this pham: P1, E,

Info for manual annotations of cluster E:

- Start number 6 was manually annotated 5 times for cluster E.
- Start number 7 was manually annotated 3 times for cluster E.

### **Gene Information:**

Gene: Asriel\_7 Start: 1997, Stop: 1815, Start Num: 6

Candidate Starts for Asriel\_7:

(1, 2150), (3, 2123), (4, 2114), (Start: 6 @1997 has 5 MA's), (Start: 7 @1985 has 3 MA's), (9, 1964), (11, 1895), (12, 1853), (13, 1850),

Gene: Barbarian\_7 Start: 1997, Stop: 1815, Start Num: 6

Candidate Starts for Barbarian\_7:

(1, 2150), (3, 2123), (4, 2114), (Start: 6 @1997 has 5 MA's), (Start: 7 @1985 has 3 MA's), (9, 1964), (11, 1895), (12, 1853), (13, 1850),

Gene: FireRed\_7 Start: 1733, Stop: 1551, Start Num: 6

Candidate Starts for FireRed\_7:

(1, 1886), (3, 1859), (4, 1850), (Start: 6 @1733 has 5 MA's), (Start: 7 @1721 has 3 MA's), (9, 1700), (11, 1631), (12, 1589), (13, 1586),

Gene: Gage\_9 Start: 2338, Stop: 2156, Start Num: 6

Candidate Starts for Gage\_9:

(1, 2491), (3, 2464), (4, 2455), (Start: 6 @2338 has 5 MA's), (Start: 7 @2326 has 3 MA's), (9, 2305), (11, 2236), (12, 2194), (13, 2191),

Gene: Glexan\_6 Start: 1742, Stop: 1560, Start Num: 7

Candidate Starts for Glexan\_6:

(2, 1883), (4, 1871), (Start: 7 @1742 has 3 MA's), (8, 1736), (9, 1721), (12, 1610), (13, 1607),

Gene: Kimchi\_9 Start: 2326, Stop: 2156, Start Num: 7

Candidate Starts for Kimchi\_9:

(1, 2491), (3, 2464), (4, 2455), (Start: 6 @2338 has 5 MA's), (Start: 7 @2326 has 3 MA's), (9, 2305), (11, 2236), (12, 2194), (13, 2191),

Gene: Polkaroo\_72 Start: 46161, Stop: 46364, Start Num: 5

Candidate Starts for Polkaroo\_72:

(5, 46161), (10, 46242), (12, 46326), (14, 46335),

Gene: Sotrice96\_8 Start: 2088, Stop: 1906, Start Num: 6

Candidate Starts for Sotrice96\_8:

(1, 2241), (3, 2214), (4, 2205), (Start: 6 @2088 has 5 MA's), (Start: 7 @2076 has 3 MA's), (9, 2055), (11, 1986), (12, 1944), (13, 1941),

Gene: TBrady12\_9 Start: 2326, Stop: 2156, Start Num: 7

Candidate Starts for TBrady12\_9:

(1, 2491), (3, 2464), (4, 2455), (Start: 6 @2338 has 5 MA's), (Start: 7 @2326 has 3 MA's), (9, 2305), (11, 2236), (12, 2194), (13, 2191),