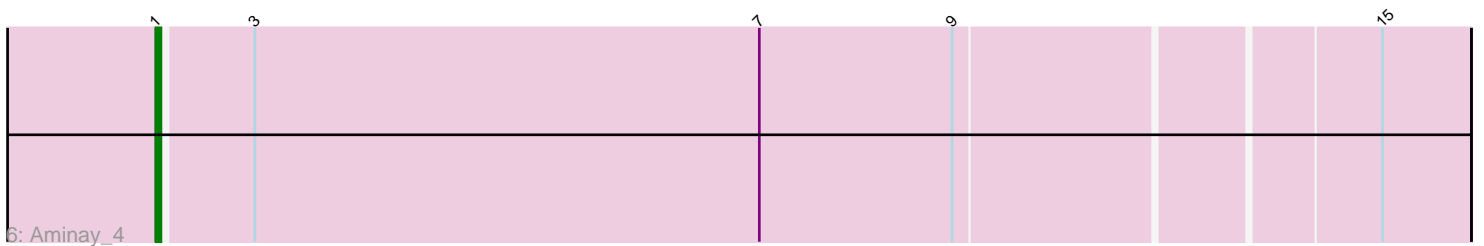
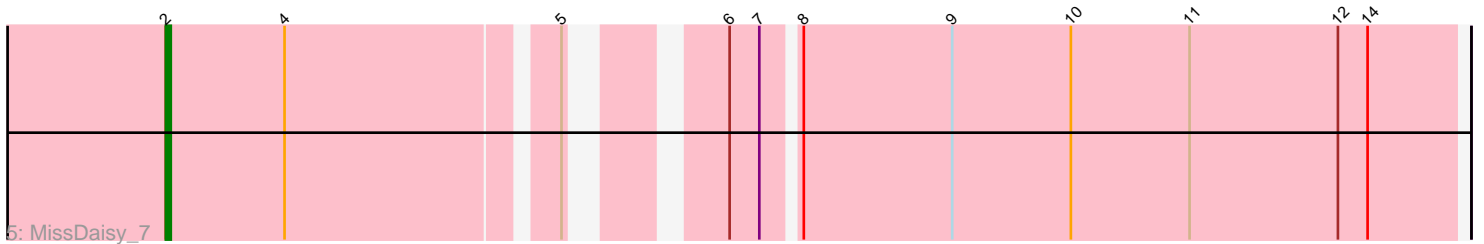
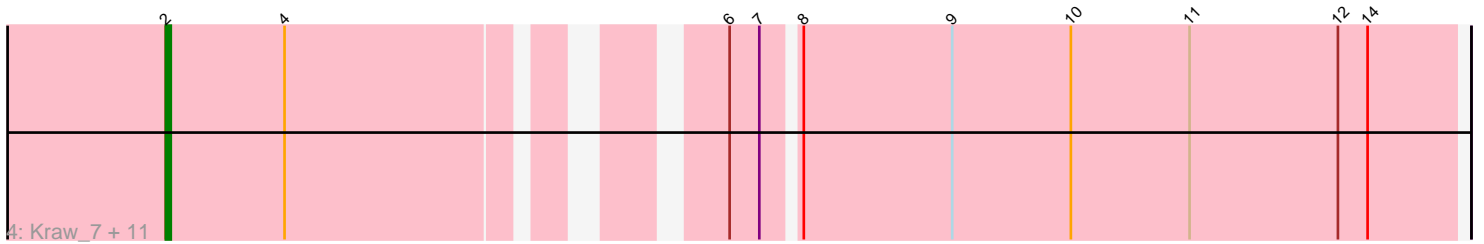
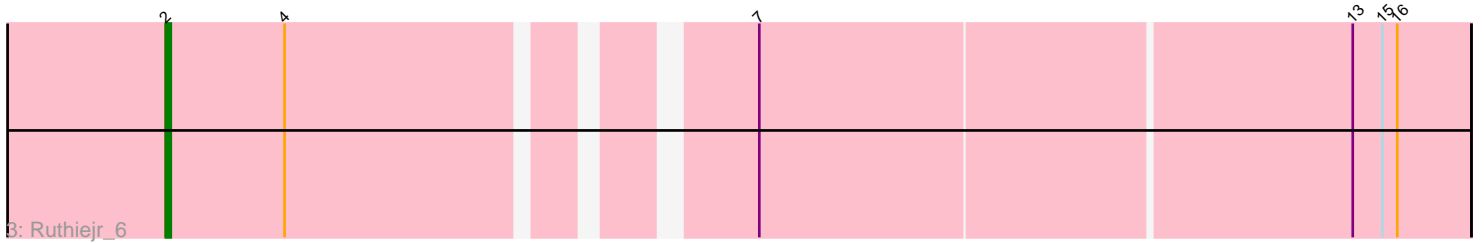
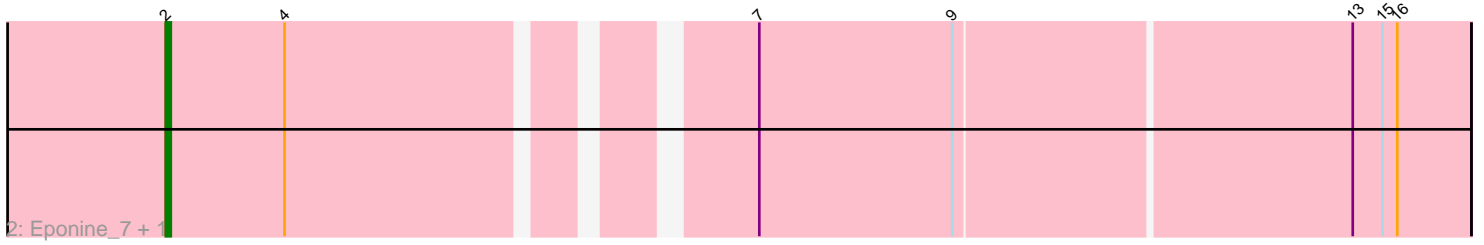
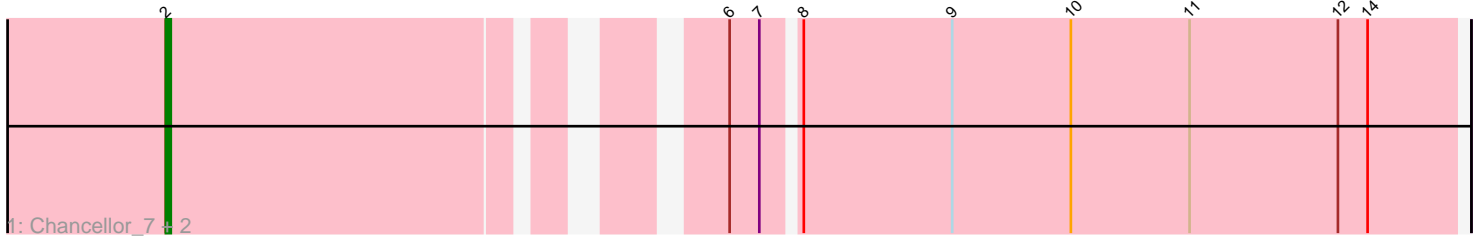


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 210381 Report

This analysis was run 02/22/25 on database version 588.

Pham number 210381 has 20 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Chancellor\_7, Cheetobro\_7, Slarp\_7
- Track 2 : Eponine\_7, Juliette\_7
- Track 3 : Ruthiejr\_6
- Track 4 : Kraw\_7, SamScheppers\_5, Y10\_07, OmniCritical\_7, Taquito\_5, Fionnbharth\_7, Lebo14\_7, Wintermute\_7, Y2\_07, Mitti\_7, Malthus\_7, JF1\_7
- Track 5 : MissDaisy\_7
- Track 6 : Aminay\_4

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

The start number called the most often in the published annotations is 2, it was called in 17 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Chancellor\_7, Cheetobro\_7, Eponine\_7, Fionnbharth\_7, JF1\_7, Juliette\_7, Kraw\_7, Lebo14\_7, Malthus\_7, MissDaisy\_7, Mitti\_7, OmniCritical\_7, Ruthiejr\_6, SamScheppers\_5, Slarp\_7, Taquito\_5, Wintermute\_7, Y10\_07, Y2\_07,

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

- 

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

- Aminay\_4,

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

Start 1:

- Found in 1 of 20 ( 5.0% ) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aminay\_4 (K7),

Start 2:

- Found in 19 of 20 ( 95.0% ) of genes in pham

- Manual Annotations of this start: 17 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chancellor\_7 (K4), Cheetobro\_7 (K4), Eponine\_7 (K4), Fionnbharth\_7 (K4), JF1\_7 (K4), Juliette\_7 (K4), Kraw\_7 (K4), Lebo14\_7 (K4), Malthus\_7 (K4), MissDaisy\_7 (K4), Mitti\_7 (K4), OmniCritical\_7 (K4), Ruthiejr\_6 (K4), SamScheppers\_5 (K4), Slarp\_7 (K4), Taquito\_5 (K4), Wintermute\_7 (K4), Y10\_07 (K4), Y2\_07 (K4),

### **Summary by clusters:**

There are 2 clusters represented in this pham: K7, K4,

Info for manual annotations of cluster K4:

- Start number 2 was manually annotated 17 times for cluster K4.

Info for manual annotations of cluster K7:

- Start number 1 was manually annotated 1 time for cluster K7.

### **Gene Information:**

Gene: Aminay\_4 Start: 820, Stop: 1077, Start Num: 1

Candidate Starts for Aminay\_4:

(Start: 1 @820 has 1 MA's), (3, 838), (7, 940), (9, 979), (15, 1060),

Gene: Chancellor\_7 Start: 1998, Stop: 2237, Start Num: 2

Candidate Starts for Chancellor\_7:

(Start: 2 @1998 has 17 MA's), (6, 2094), (7, 2100), (8, 2106), (9, 2136), (10, 2160), (11, 2184), (12, 2214), (14, 2220),

Gene: Cheetobro\_7 Start: 1998, Stop: 2237, Start Num: 2

Candidate Starts for Cheetobro\_7:

(Start: 2 @1998 has 17 MA's), (6, 2094), (7, 2100), (8, 2106), (9, 2136), (10, 2160), (11, 2184), (12, 2214), (14, 2220),

Gene: Eponine\_7 Start: 1991, Stop: 2236, Start Num: 2

Candidate Starts for Eponine\_7:

(Start: 2 @1991 has 17 MA's), (4, 2015), (7, 2096), (9, 2135), (13, 2213), (15, 2219), (16, 2222),

Gene: Fionnbharth\_7 Start: 1985, Stop: 2224, Start Num: 2

Candidate Starts for Fionnbharth\_7:

(Start: 2 @1985 has 17 MA's), (4, 2009), (6, 2081), (7, 2087), (8, 2093), (9, 2123), (10, 2147), (11, 2171), (12, 2201), (14, 2207),

Gene: JF1\_7 Start: 1985, Stop: 2224, Start Num: 2

Candidate Starts for JF1\_7:

(Start: 2 @1985 has 17 MA's), (4, 2009), (6, 2081), (7, 2087), (8, 2093), (9, 2123), (10, 2147), (11, 2171), (12, 2201), (14, 2207),

Gene: Juliette\_7 Start: 1991, Stop: 2236, Start Num: 2

Candidate Starts for Juliette\_7:

(Start: 2 @1991 has 17 MA's), (4, 2015), (7, 2096), (9, 2135), (13, 2213), (15, 2219), (16, 2222),

Gene: Kraw\_7 Start: 1985, Stop: 2224, Start Num: 2

Candidate Starts for Kraw\_7:

(Start: 2 @1985 has 17 MA's), (4, 2009), (6, 2081), (7, 2087), (8, 2093), (9, 2123), (10, 2147), (11, 2171), (12, 2201), (14, 2207),

Gene: Lebo14\_7 Start: 1998, Stop: 2237, Start Num: 2

Candidate Starts for Lebo14\_7:

(Start: 2 @1998 has 17 MA's), (4, 2022), (6, 2094), (7, 2100), (8, 2106), (9, 2136), (10, 2160), (11, 2184), (12, 2214), (14, 2220),

Gene: Malthus\_7 Start: 1985, Stop: 2224, Start Num: 2

Candidate Starts for Malthus\_7:

(Start: 2 @1985 has 17 MA's), (4, 2009), (6, 2081), (7, 2087), (8, 2093), (9, 2123), (10, 2147), (11, 2171), (12, 2201), (14, 2207),

Gene: MissDaisy\_7 Start: 1941, Stop: 2180, Start Num: 2

Candidate Starts for MissDaisy\_7:

(Start: 2 @1941 has 17 MA's), (4, 1965), (5, 2016), (6, 2037), (7, 2043), (8, 2049), (9, 2079), (10, 2103), (11, 2127), (12, 2157), (14, 2163),

Gene: Mitti\_7 Start: 1998, Stop: 2237, Start Num: 2

Candidate Starts for Mitti\_7:

(Start: 2 @1998 has 17 MA's), (4, 2022), (6, 2094), (7, 2100), (8, 2106), (9, 2136), (10, 2160), (11, 2184), (12, 2214), (14, 2220),

Gene: OmniCritical\_7 Start: 1985, Stop: 2224, Start Num: 2

Candidate Starts for OmniCritical\_7:

(Start: 2 @1985 has 17 MA's), (4, 2009), (6, 2081), (7, 2087), (8, 2093), (9, 2123), (10, 2147), (11, 2171), (12, 2201), (14, 2207),

Gene: Ruthiejr\_6 Start: 1722, Stop: 1967, Start Num: 2

Candidate Starts for Ruthiejr\_6:

(Start: 2 @1722 has 17 MA's), (4, 1746), (7, 1827), (13, 1944), (15, 1950), (16, 1953),

Gene: SamScheppers\_5 Start: 1595, Stop: 1834, Start Num: 2

Candidate Starts for SamScheppers\_5:

(Start: 2 @1595 has 17 MA's), (4, 1619), (6, 1691), (7, 1697), (8, 1703), (9, 1733), (10, 1757), (11, 1781), (12, 1811), (14, 1817),

Gene: Slarp\_7 Start: 1998, Stop: 2237, Start Num: 2

Candidate Starts for Slarp\_7:

(Start: 2 @1998 has 17 MA's), (6, 2094), (7, 2100), (8, 2106), (9, 2136), (10, 2160), (11, 2184), (12, 2214), (14, 2220),

Gene: Taquito\_5 Start: 1596, Stop: 1835, Start Num: 2

Candidate Starts for Taquito\_5:

(Start: 2 @1596 has 17 MA's), (4, 1620), (6, 1692), (7, 1698), (8, 1704), (9, 1734), (10, 1758), (11, 1782), (12, 1812), (14, 1818),

Gene: Wintermute\_7 Start: 1984, Stop: 2223, Start Num: 2

Candidate Starts for Wintermute\_7:

(Start: 2 @1984 has 17 MA's), (4, 2008), (6, 2080), (7, 2086), (8, 2092), (9, 2122), (10, 2146), (11, 2170), (12, 2200), (14, 2206),

Gene: Y10\_07 Start: 1985, Stop: 2224, Start Num: 2

Candidate Starts for Y10\_07:

(Start: 2 @1985 has 17 MA's), (4, 2009), (6, 2081), (7, 2087), (8, 2093), (9, 2123), (10, 2147), (11, 2171), (12, 2201), (14, 2207),

Gene: Y2\_07 Start: 1985, Stop: 2224, Start Num: 2

Candidate Starts for Y2\_07:

(Start: 2 @1985 has 17 MA's), (4, 2009), (6, 2081), (7, 2087), (8, 2093), (9, 2123), (10, 2147), (11, 2171), (12, 2201), (14, 2207),