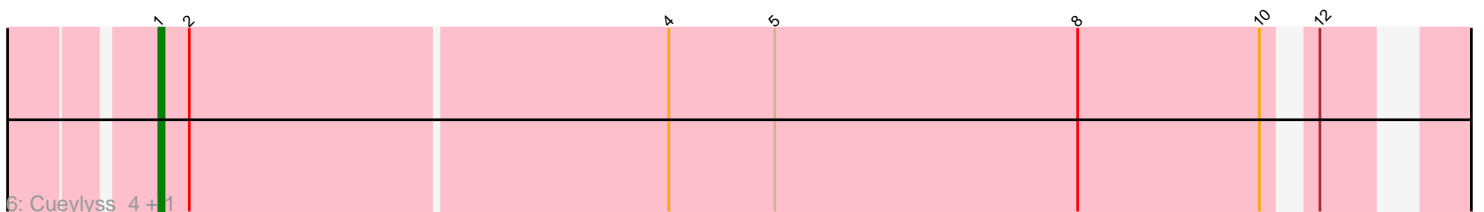
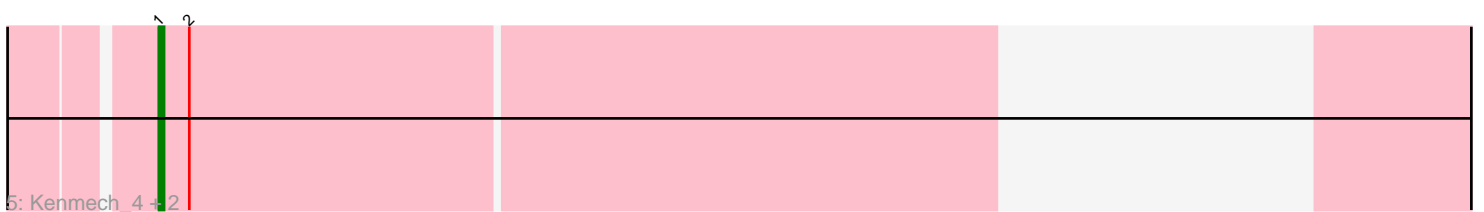
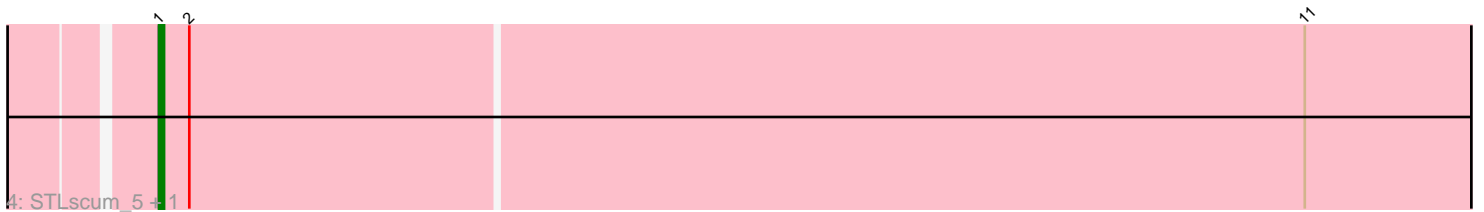
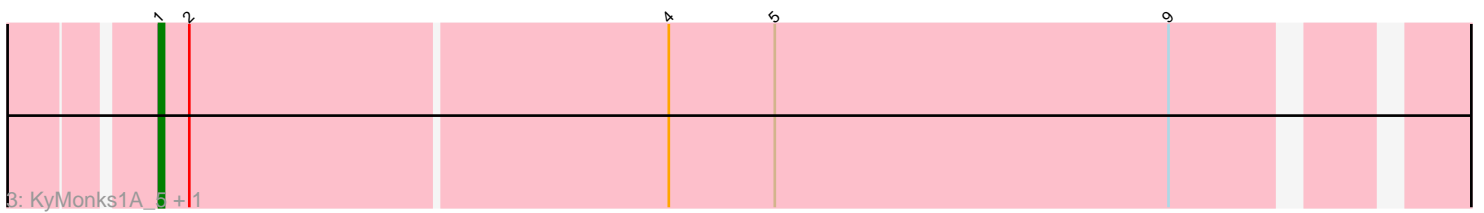
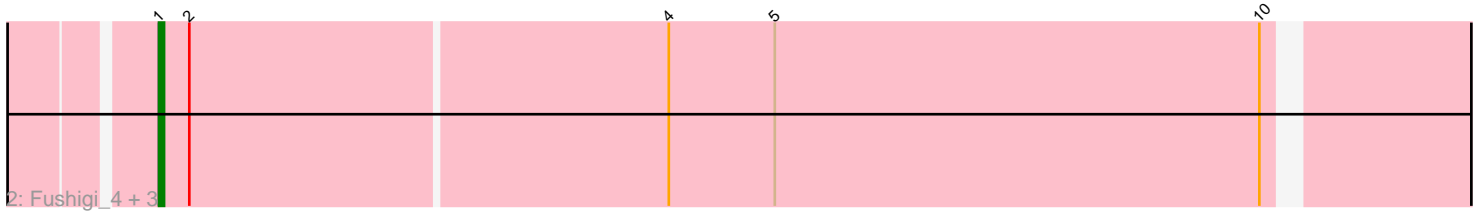
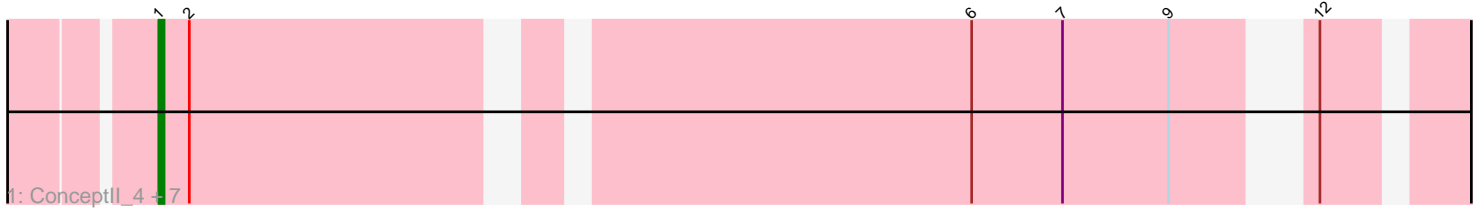


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 205502 Report

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

Pham number 205502 has 22 members, 2 are drafts.

Phages represented in each track:

- Track 1 : ConceptII\_4, Francis47\_4, Gompeii16\_4, PacerPaul\_4, Bircsak\_4, Hermia\_5, Agaliana\_4, Scowl\_5
- Track 2 : Fushigi\_4, Sorpresa\_4, Pelly\_5, Sandaddy\_3
- Track 3 : KyMonks1A\_5, Makemake\_4
- Track 4 : STLscum\_5, Norz\_4
- Track 5 : Kenmech\_4, Dussy\_4, Abbyshoes\_4
- Track 6 : Cueylyss\_4, Seanderson\_5
- Track 7 : Ogopogo\_1

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

The start number called the most often in the published annotations is 1, it was called in 20 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abbyshoes\_4, Agaliana\_4, Bircsak\_4, ConceptII\_4, Cueylyss\_4, Dussy\_4, Francis47\_4, Fushigi\_4, Gompeii16\_4, Hermia\_5, Kenmech\_4, KyMonks1A\_5, Makemake\_4, Norz\_4, Ogopogo\_1, PacerPaul\_4, Pelly\_5, STLscum\_5, Sandaddy\_3, Scowl\_5, Seanderson\_5, Sorpresa\_4,

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

- 

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

- 

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

Start 1:

- Found in 22 of 22 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 20 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abbyshoes\_4 (A1), Agaliana\_4 (A1), Bircsak\_4 (A1), ConceptII\_4 (A1), Cueylyss\_4 (A1), Dussy\_4 (A1), Francis47\_4 (A1),

Fushigi\_4 (A1), Gompeii16\_4 (A1), Hermia\_5 (A1), Kenmech\_4 (A1), KyMonks1A\_5 (A1), Makemake\_4 (A1), Norz\_4 (A1), Ogopogo\_1 (F1), PacerPaul\_4 (A1), Pelly\_5 (A1), STLscum\_5 (A1), Sandaddy\_3 (A1), Scowl\_5 (A1), Seanderson\_5 (A1), Sorpresa\_4 (A1),

### **Summary by clusters:**

There are 2 clusters represented in this pham: A1, F1,

Info for manual annotations of cluster A1:

- Start number 1 was manually annotated 19 times for cluster A1.

Info for manual annotations of cluster F1:

- Start number 1 was manually annotated 1 time for cluster F1.

### **Gene Information:**

Gene: Abbyshoes\_4 Start: 1636, Stop: 1863, Start Num: 1

Candidate Starts for Abbyshoes\_4:

(Start: 1 @1636 has 20 MA's), (2, 1642),

Gene: Agaliana\_4 Start: 1778, Stop: 2029, Start Num: 1

Candidate Starts for Agaliana\_4:

(Start: 1 @1778 has 20 MA's), (2, 1784), (6, 1925), (7, 1943), (9, 1964), (12, 1982),

Gene: Bircsak\_4 Start: 1896, Stop: 2147, Start Num: 1

Candidate Starts for Bircsak\_4:

(Start: 1 @1896 has 20 MA's), (2, 1902), (6, 2043), (7, 2061), (9, 2082), (12, 2100),

Gene: Conceptll\_4 Start: 1948, Stop: 2199, Start Num: 1

Candidate Starts for Conceptll\_4:

(Start: 1 @1948 has 20 MA's), (2, 1954), (6, 2095), (7, 2113), (9, 2134), (12, 2152),

Gene: Cueylyss\_4 Start: 1736, Stop: 2011, Start Num: 1

Candidate Starts for Cueylyss\_4:

(Start: 1 @1736 has 20 MA's), (2, 1742), (4, 1835), (5, 1856), (8, 1916), (10, 1952), (12, 1958),

Gene: Dussy\_4 Start: 1636, Stop: 1863, Start Num: 1

Candidate Starts for Dussy\_4:

(Start: 1 @1636 has 20 MA's), (2, 1642),

Gene: Francis47\_4 Start: 1896, Stop: 2147, Start Num: 1

Candidate Starts for Francis47\_4:

(Start: 1 @1896 has 20 MA's), (2, 1902), (6, 2043), (7, 2061), (9, 2082), (12, 2100),

Gene: Fushigi\_4 Start: 1634, Stop: 1918, Start Num: 1

Candidate Starts for Fushigi\_4:

(Start: 1 @1634 has 20 MA's), (2, 1640), (4, 1733), (5, 1754), (10, 1850),

Gene: Gompeii16\_4 Start: 1896, Stop: 2147, Start Num: 1

Candidate Starts for Gompeii16\_4:

(Start: 1 @1896 has 20 MA's), (2, 1902), (6, 2043), (7, 2061), (9, 2082), (12, 2100),

Gene: Hermia\_5 Start: 1863, Stop: 2114, Start Num: 1

Candidate Starts for Hermia\_5:

(Start: 1 @1863 has 20 MA's), (2, 1869), (6, 2010), (7, 2028), (9, 2049), (12, 2067),

Gene: Kenmech\_4 Start: 1636, Stop: 1863, Start Num: 1

Candidate Starts for Kenmech\_4:

(Start: 1 @1636 has 20 MA's), (2, 1642),

Gene: KyMonks1A\_5 Start: 1906, Stop: 2184, Start Num: 1

Candidate Starts for KyMonks1A\_5:

(Start: 1 @1906 has 20 MA's), (2, 1912), (4, 2005), (5, 2026), (9, 2104),

Gene: Makemake\_4 Start: 1942, Stop: 2220, Start Num: 1

Candidate Starts for Makemake\_4:

(Start: 1 @1942 has 20 MA's), (2, 1948), (4, 2041), (5, 2062), (9, 2140),

Gene: Norz\_4 Start: 1624, Stop: 1914, Start Num: 1

Candidate Starts for Norz\_4:

(Start: 1 @1624 has 20 MA's), (2, 1630), (11, 1849),

Gene: Ogotogo\_1 Start: 107, Stop: 289, Start Num: 1

Candidate Starts for Ogotogo\_1:

(Start: 1 @107 has 20 MA's), (3, 140),

Gene: PacerPaul\_4 Start: 1896, Stop: 2147, Start Num: 1

Candidate Starts for PacerPaul\_4:

(Start: 1 @1896 has 20 MA's), (2, 1902), (6, 2043), (7, 2061), (9, 2082), (12, 2100),

Gene: Pelly\_5 Start: 2044, Stop: 2322, Start Num: 1

Candidate Starts for Pelly\_5:

(Start: 1 @2044 has 20 MA's), (2, 2050), (4, 2143), (5, 2164), (10, 2260),

Gene: STLscum\_5 Start: 1899, Stop: 2189, Start Num: 1

Candidate Starts for STLscum\_5:

(Start: 1 @1899 has 20 MA's), (2, 1905), (11, 2124),

Gene: Sandaddy\_3 Start: 1712, Stop: 1990, Start Num: 1

Candidate Starts for Sandaddy\_3:

(Start: 1 @1712 has 20 MA's), (2, 1718), (4, 1811), (5, 1832), (10, 1928),

Gene: Scowl\_5 Start: 2239, Stop: 2490, Start Num: 1

Candidate Starts for Scowl\_5:

(Start: 1 @2239 has 20 MA's), (2, 2245), (6, 2386), (7, 2404), (9, 2425), (12, 2443),

Gene: Seanderson\_5 Start: 2160, Stop: 2435, Start Num: 1

Candidate Starts for Seanderson\_5:

(Start: 1 @2160 has 20 MA's), (2, 2166), (4, 2259), (5, 2280), (8, 2340), (10, 2376), (12, 2382),

Gene: Sorpresa\_4 Start: 1712, Stop: 1990, Start Num: 1

Candidate Starts for Sorpresa\_4:

(Start: 1 @1712 has 20 MA's), (2, 1718), (4, 1811), (5, 1832), (10, 1928),

