



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 164051 Report

This analysis was run 05/04/24 on database version 560.

Pham number 164051 has 13 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Switzer\_4, Crispicous1\_3, Lamina13\_4, HanShotFirst\_4, Solon\_3, Anglerfish\_4, Magnito\_3, Big3\_4
- Track 2 : Eyeball\_4
- Track 3 : Sunshine924\_3
- Track 4 : Magnar\_4
- Track 5 : Topgun\_4, Wilkins\_4

### ***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 13 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anglerfish\_4, Big3\_4, Crispicous1\_3, Eyeball\_4, HanShotFirst\_4, Lamina13\_4, Magnar\_4, Magnito\_3, Solon\_3, Sunshine924\_3, Switzer\_4, Topgun\_4, Wilkins\_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 13 of 13 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 13 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anglerfish\_4 (A1), Big3\_4 (A1), Crispicous1\_3 (A1), Eyeball\_4 (A1), HanShotFirst\_4 (A1), Lamina13\_4 (A1), Magnar\_4 (A1), Magnito\_3 (A1), Solon\_3 (A1), Sunshine924\_3 (A1), Switzer\_4 (A1), Topgun\_4 (A1), Wilkins\_4 (A1),

### **Summary by clusters:**

There is one cluster represented in this pham: A1

Info for manual annotations of cluster A1:

- Start number 1 was manually annotated 13 times for cluster A1.

**Gene Information:**

Gene: Anglerfish\_4 Start: 1566, Stop: 1802, Start Num: 1

Candidate Starts for Anglerfish\_4:

(Start: 1 @1566 has 13 MA's), (2, 1710), (3, 1725),

Gene: Big3\_4 Start: 1582, Stop: 1818, Start Num: 1

Candidate Starts for Big3\_4:

(Start: 1 @1582 has 13 MA's), (2, 1726), (3, 1741),

Gene: Crispicous1\_3 Start: 1418, Stop: 1654, Start Num: 1

Candidate Starts for Crispicous1\_3:

(Start: 1 @1418 has 13 MA's), (2, 1562), (3, 1577),

Gene: Eyeball\_4 Start: 1619, Stop: 1966, Start Num: 1

Candidate Starts for Eyeball\_4:

(Start: 1 @1619 has 13 MA's), (2, 1763), (3, 1778), (4, 1829), (5, 1847), (6, 1913),

Gene: HanShotFirst\_4 Start: 1565, Stop: 1801, Start Num: 1

Candidate Starts for HanShotFirst\_4:

(Start: 1 @1565 has 13 MA's), (2, 1709), (3, 1724),

Gene: Lamina13\_4 Start: 1563, Stop: 1799, Start Num: 1

Candidate Starts for Lamina13\_4:

(Start: 1 @1563 has 13 MA's), (2, 1707), (3, 1722),

Gene: Magnar\_4 Start: 1581, Stop: 1856, Start Num: 1

Candidate Starts for Magnar\_4:

(Start: 1 @1581 has 13 MA's), (2, 1725), (3, 1740), (4, 1791), (5, 1809),

Gene: Magnito\_3 Start: 1417, Stop: 1653, Start Num: 1

Candidate Starts for Magnito\_3:

(Start: 1 @1417 has 13 MA's), (2, 1561), (3, 1576),

Gene: Solon\_3 Start: 1417, Stop: 1653, Start Num: 1

Candidate Starts for Solon\_3:

(Start: 1 @1417 has 13 MA's), (2, 1561), (3, 1576),

Gene: Sunshine924\_3 Start: 1408, Stop: 1626, Start Num: 1

Candidate Starts for Sunshine924\_3:

(Start: 1 @1408 has 13 MA's), (2, 1552), (4, 1561), (5, 1579),

Gene: Switzer\_4 Start: 1560, Stop: 1796, Start Num: 1

Candidate Starts for Switzer\_4:

(Start: 1 @1560 has 13 MA's), (2, 1704), (3, 1719),

Gene: Topgun\_4 Start: 1611, Stop: 1886, Start Num: 1

Candidate Starts for Topgun\_4:

(Start: 1 @1611 has 13 MA's), (2, 1755), (3, 1770), (4, 1821), (5, 1839),

Gene: Wilkins\_4 Start: 1611, Stop: 1886, Start Num: 1

Candidate Starts for Wilkins\_4:

(Start: 1 @1611 has 13 MA's), (2, 1755), (3, 1770), (4, 1821), (5, 1839),