



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 6710 Report

This analysis was run 04/05/24 on database version 557.

Pham number 6710 has 9 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Francesca\_151
- Track 2 : Abscondus\_24, Toniann\_25, Cucurbita\_27, Culver\_25, Engineer\_26, OneUp\_19
- Track 3 : Phendrix\_148
- Track 4 : GodonK\_156

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

Genes that call this "Most Annotated" start:

- Abscondus\_24, Cucurbita\_27, Culver\_25, Engineer\_26, Francesca\_151, GodonK\_156, OneUp\_19, Phendrix\_148, Toniann\_25,

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 2:

- Found in 9 of 9 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 7 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abscondus\_24 (CQ), Cucurbita\_27 (CQ1), Culver\_25 (CQ1), Engineer\_26 (CQ1), Francesca\_151 (CG), GodonK\_156 (DK), OneUp\_19 (CQ2), Phendrix\_148 (DK), Toniann\_25 (CQ1),

### **Summary by clusters:**

There are 5 clusters represented in this pham: CQ2, CQ, CG, CQ1, DK,

Info for manual annotations of cluster CQ1:

- Start number 2 was manually annotated 4 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 2 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster DK:

- Start number 2 was manually annotated 2 times for cluster DK.

### ***Gene Information:***

Gene: Abscondus\_24 Start: 6890, Stop: 7093, Start Num: 2

Candidate Starts for Abscondus\_24:

(1, 6884), (Start: 2 @6890 has 7 MA's), (3, 6932), (4, 6938), (5, 6941), (7, 7043),

Gene: Cucurbita\_27 Start: 8429, Stop: 8632, Start Num: 2

Candidate Starts for Cucurbita\_27:

(1, 8423), (Start: 2 @8429 has 7 MA's), (3, 8471), (4, 8477), (5, 8480), (7, 8582),

Gene: Culver\_25 Start: 6890, Stop: 7093, Start Num: 2

Candidate Starts for Culver\_25:

(1, 6884), (Start: 2 @6890 has 7 MA's), (3, 6932), (4, 6938), (5, 6941), (7, 7043),

Gene: Engineer\_26 Start: 7088, Stop: 7291, Start Num: 2

Candidate Starts for Engineer\_26:

(1, 7082), (Start: 2 @7088 has 7 MA's), (3, 7130), (4, 7136), (5, 7139), (7, 7241),

Gene: Francesca\_151 Start: 89600, Stop: 89776, Start Num: 2

Candidate Starts for Francesca\_151:

(Start: 2 @89600 has 7 MA's), (6, 89729),

Gene: GodonK\_156 Start: 83317, Stop: 83087, Start Num: 2

Candidate Starts for GodonK\_156:

(Start: 2 @83317 has 7 MA's), (3, 83275), (8, 83125),

Gene: OneUp\_19 Start: 4987, Stop: 5196, Start Num: 2

Candidate Starts for OneUp\_19:

(1, 4981), (Start: 2 @4987 has 7 MA's), (3, 5029), (4, 5035), (5, 5038), (7, 5140),

Gene: Phendrix\_148 Start: 82800, Stop: 82573, Start Num: 2

Candidate Starts for Phendrix\_148:

(Start: 2 @82800 has 7 MA's), (3, 82758),

Gene: Toniann\_25 Start: 7088, Stop: 7291, Start Num: 2

Candidate Starts for Toniann\_25:

(1, 7082), (Start: 2 @7088 has 7 MA's), (3, 7130), (4, 7136), (5, 7139), (7, 7241),