

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 164053 Report

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

Pham number 164053 has 13 members, 3 are drafts.

Phages represented in each track:

- Track 1: 40AC 65
- Track 2 : WeiHuaDA 65
- Track 3: Herbertwm 61
- Track 4 : Kalpine\_63
- Track 5 : RedRock\_65
- Track 6 : AnnaL29\_65
- Track 7 : Loser 66
- Track 8 : Colin\_63
- Track 9 : Trixie 63
- Track 10 : Changeling\_64
- Track 11 : Leogania\_65, BiancaTri92\_65
- Track 12 : Cintron 61

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

The start number called the most often in the published annotations is 4, it was called in 6 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• 40AC\_65, BiancaTri92\_65, Changeling\_64, Cintron\_61, Herbertwm\_61, Leogania\_65, RedRock\_65,

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

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

AnnaL29\_65, Colin\_63, Kalpine\_63, Loser\_66, Trixie\_63, WeiHuaDA\_65,

### Summary by start number:

#### Start 4:

- Found in 7 of 13 (53.8%) of genes in pham
- Manual Annotations of this start: 6 of 10
- Called 100.0% of time when present

• Phage (with cluster) where this start called: 40AC\_65 (A17), BiancaTri92\_65 (A2), Changeling\_64 (A2), Cintron\_61 (A4), Herbertwm\_61 (A2), Leogania\_65 (A2), RedRock\_65 (A2),

#### Start 5:

- Found in 6 of 13 (46.2%) of genes in pham
- Manual Annotations of this start: 4 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AnnaL29\_65 (A2), Colin\_63 (A2), Kalpine\_63 (A2), Loser\_66 (A2), Trixie\_63 (A2), WeiHuaDA\_65 (A2),

### **Summary by clusters:**

There are 3 clusters represented in this pham: A17, A2, A4,

Info for manual annotations of cluster A2:

- •Start number 4 was manually annotated 5 times for cluster A2.
- •Start number 5 was manually annotated 4 times for cluster A2.

Info for manual annotations of cluster A4:

•Start number 4 was manually annotated 1 time for cluster A4.

#### Gene Information:

Gene: 40AC\_65 Start: 42062, Stop: 41922, Start Num: 4 Candidate Starts for 40AC\_65: (3, 42071), (Start: 4 @ 42062 has 6 MA's), (8, 42008),

Gene: AnnaL29\_65 Start: 41534, Stop: 41382, Start Num: 5 Candidate Starts for AnnaL29\_65: (1, 41687), (Start: 5 @41534 has 4 MA's),

Gene: BiancaTri92\_65 Start: 41458, Stop: 41312, Start Num: 4 Candidate Starts for BiancaTri92\_65: (Start: 4 @41458 has 6 MA's), (8, 41404),

Gene: Changeling\_64 Start: 41421, Stop: 41269, Start Num: 4 Candidate Starts for Changeling\_64: (3, 41430), (Start: 4 @41421 has 6 MA's), (14, 41277),

Gene: Cintron\_61 Start: 40366, Stop: 40208, Start Num: 4 Candidate Starts for Cintron\_61: (3, 40375), (Start: 4 @40366 has 6 MA's),

Gene: Colin\_63 Start: 41158, Stop: 40997, Start Num: 5 Candidate Starts for Colin\_63: (Start: 5 @41158 has 4 MA's), (6, 41155), (7, 41152), (12, 41044),

Gene: Herbertwm\_61 Start: 40511, Stop: 40335, Start Num: 4 Candidate Starts for Herbertwm\_61:

(2, 40661), (3, 40520), (Start: 4 @ 40511 has 6 MA's), (10, 40442), (13, 40394),

Gene: Kalpine\_63 Start: 41081, Stop: 40929, Start Num: 5

Candidate Starts for Kalpine\_63:

(1, 41234), (Start: 5 @ 41081 has 4 MA's), (6, 41078), (11, 40985),

Gene: Leogania\_65 Start: 41836, Stop: 41690, Start Num: 4

Candidate Starts for Leogania\_65:

(Start: 4 @41836 has 6 MA's), (8, 41782),

Gene: Loser\_66 Start: 41478, Stop: 41326, Start Num: 5

Candidate Starts for Loser 66:

(1, 41631), (Start: 5 @41478 has 4 MA's), (12, 41373),

Gene: RedRock\_65 Start: 41772, Stop: 41626, Start Num: 4

Candidate Starts for RedRock\_65:

(1, 41922), (Start: 4 @ 41772 has 6 MA's), (8, 41718), (9, 41706),

Gene: Trixie\_63 Start: 40973, Stop: 40821, Start Num: 5

Candidate Starts for Trixie\_63:

(Start: 5 @40973 has 4 MA's), (6, 40970), (15, 40826),

Gene: WeiHuaDA\_65 Start: 41696, Stop: 41544, Start Num: 5

Candidate Starts for WeiHuaDA\_65:

(1, 41849), (Start: 5 @41696 has 4 MA's), (6, 41693),