



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 171751 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171751 has 22 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Miley16\_72, Wigglewiggle\_72, Gabriela\_70, Zakai\_73, Itos\_71, Kahlid\_72, Rumpelstiltskin\_71, DrSeegs\_72, Winky\_72, Breezona\_72, BigCheese\_72, BobsGarage\_72, GuuelaD\_70, Netyap\_73, Nicholasp3\_72, LilDestine\_72, Gardann\_73, Faith1\_72, MkaliMitinis3\_73, Wilder\_73
- Track 2 : Lewan\_73
- Track 3 : Loadrie\_71

### ***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 21 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BigCheese\_72, BobsGarage\_72, Breezona\_72, DrSeegs\_72, Faith1\_72, Gabriela\_70, Gardann\_73, GuuelaD\_70, Itos\_71, Kahlid\_72, LilDestine\_72, Loadrie\_71, Miley16\_72, MkaliMitinis3\_73, Netyap\_73, Nicholasp3\_72, Rumpelstiltskin\_71, Wigglewiggle\_72, Wilder\_73, Winky\_72, Zakai\_73,

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

- Lewan\_73,

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

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

Start 1:

- Found in 22 of 22 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 21 of 22
- Called 95.5% of time when present
- Phage (with cluster) where this start called: BigCheese\_72 (L2), BobsGarage\_72 (L2), Breezona\_72 (L2), DrSeegs\_72 (L2), Faith1\_72 (L2), Gabriela\_70 (L2), Gardann\_73 (L2), GuuelaD\_70 (L2), Itos\_71 (L2), Kahlid\_72 (L2), LilDestine\_72 (L2), Loadrie\_71 (L2), Miley16\_72 (L2), MkaliMitinis3\_73 (L2), Netyap\_73 (L2),

Nicholasp3\_72 (L2), Rumpelstiltskin\_71 (L2), Wigglewobble\_72 (L2), Wilder\_73 (L2), Winky\_72 (L2), Zakai\_73 (L2),

Start 2:

- Found in 22 of 22 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 4.5% of time when present
- Phage (with cluster) where this start called: Lewan\_73 (L2),

### **Summary by clusters:**

There is one cluster represented in this pham: L2

Info for manual annotations of cluster L2:

- Start number 1 was manually annotated 21 times for cluster L2.
- Start number 2 was manually annotated 1 time for cluster L2.

### **Gene Information:**

Gene: BigCheese\_72 Start: 49129, Stop: 49383, Start Num: 1

Candidate Starts for BigCheese\_72:

(Start: 1 @49129 has 21 MA's), (Start: 2 @49150 has 1 MA's), (3, 49195), (4, 49225), (5, 49264), (6, 49270),

Gene: BobsGarage\_72 Start: 49129, Stop: 49383, Start Num: 1

Candidate Starts for BobsGarage\_72:

(Start: 1 @49129 has 21 MA's), (Start: 2 @49150 has 1 MA's), (3, 49195), (4, 49225), (5, 49264), (6, 49270),

Gene: Breezona\_72 Start: 49129, Stop: 49383, Start Num: 1

Candidate Starts for Breezona\_72:

(Start: 1 @49129 has 21 MA's), (Start: 2 @49150 has 1 MA's), (3, 49195), (4, 49225), (5, 49264), (6, 49270),

Gene: DrSeegs\_72 Start: 49129, Stop: 49383, Start Num: 1

Candidate Starts for DrSeegs\_72:

(Start: 1 @49129 has 21 MA's), (Start: 2 @49150 has 1 MA's), (3, 49195), (4, 49225), (5, 49264), (6, 49270),

Gene: Faith1\_72 Start: 49129, Stop: 49383, Start Num: 1

Candidate Starts for Faith1\_72:

(Start: 1 @49129 has 21 MA's), (Start: 2 @49150 has 1 MA's), (3, 49195), (4, 49225), (5, 49264), (6, 49270),

Gene: Gabriela\_70 Start: 47976, Stop: 48230, Start Num: 1

Candidate Starts for Gabriela\_70:

(Start: 1 @47976 has 21 MA's), (Start: 2 @47997 has 1 MA's), (3, 48042), (4, 48072), (5, 48111), (6, 48117),

Gene: Gardann\_73 Start: 49162, Stop: 49416, Start Num: 1

Candidate Starts for Gardann\_73:

(Start: 1 @49162 has 21 MA's), (Start: 2 @49183 has 1 MA's), (3, 49228), (4, 49258), (5, 49297), (6, 49303),

Gene: GuuelaD\_70 Start: 49244, Stop: 49498, Start Num: 1

Candidate Starts for GuuelaD\_70:

(Start: 1 @49244 has 21 MA's), (Start: 2 @49265 has 1 MA's), (3, 49310), (4, 49340), (5, 49379), (6, 49385),

Gene: Itos\_71 Start: 48035, Stop: 48289, Start Num: 1

Candidate Starts for Itos\_71:

(Start: 1 @48035 has 21 MA's), (Start: 2 @48056 has 1 MA's), (3, 48101), (4, 48131), (5, 48170), (6, 48176),

Gene: Kahlid\_72 Start: 49135, Stop: 49389, Start Num: 1

Candidate Starts for Kahlid\_72:

(Start: 1 @49135 has 21 MA's), (Start: 2 @49156 has 1 MA's), (3, 49201), (4, 49231), (5, 49270), (6, 49276),

Gene: Lewan\_73 Start: 49207, Stop: 49440, Start Num: 2

Candidate Starts for Lewan\_73:

(Start: 1 @49186 has 21 MA's), (Start: 2 @49207 has 1 MA's), (3, 49252), (4, 49282), (5, 49321), (6, 49327),

Gene: LilDestine\_72 Start: 49162, Stop: 49416, Start Num: 1

Candidate Starts for LilDestine\_72:

(Start: 1 @49162 has 21 MA's), (Start: 2 @49183 has 1 MA's), (3, 49228), (4, 49258), (5, 49297), (6, 49303),

Gene: Loadrie\_71 Start: 49214, Stop: 49468, Start Num: 1

Candidate Starts for Loadrie\_71:

(Start: 1 @49214 has 21 MA's), (Start: 2 @49235 has 1 MA's), (3, 49280), (4, 49310), (5, 49349),

Gene: Miley16\_72 Start: 49129, Stop: 49383, Start Num: 1

Candidate Starts for Miley16\_72:

(Start: 1 @49129 has 21 MA's), (Start: 2 @49150 has 1 MA's), (3, 49195), (4, 49225), (5, 49264), (6, 49270),

Gene: MkaliMitinis3\_73 Start: 49198, Stop: 49452, Start Num: 1

Candidate Starts for MkaliMitinis3\_73:

(Start: 1 @49198 has 21 MA's), (Start: 2 @49219 has 1 MA's), (3, 49264), (4, 49294), (5, 49333), (6, 49339),

Gene: Netyap\_73 Start: 49130, Stop: 49384, Start Num: 1

Candidate Starts for Netyap\_73:

(Start: 1 @49130 has 21 MA's), (Start: 2 @49151 has 1 MA's), (3, 49196), (4, 49226), (5, 49265), (6, 49271),

Gene: Nicholasp3\_72 Start: 49162, Stop: 49416, Start Num: 1

Candidate Starts for Nicholasp3\_72:

(Start: 1 @49162 has 21 MA's), (Start: 2 @49183 has 1 MA's), (3, 49228), (4, 49258), (5, 49297), (6, 49303),

Gene: Rumpelstiltskin\_71 Start: 48955, Stop: 49209, Start Num: 1

Candidate Starts for Rumpelstiltskin\_71:

(Start: 1 @48955 has 21 MA's), (Start: 2 @48976 has 1 MA's), (3, 49021), (4, 49051), (5, 49090), (6, 49096),

Gene: Wigglewiggler\_72 Start: 49186, Stop: 49440, Start Num: 1

Candidate Starts for Wigglewiggler\_72:

(Start: 1 @49186 has 21 MA's), (Start: 2 @49207 has 1 MA's), (3, 49252), (4, 49282), (5, 49321), (6, 49327),

Gene: Wilder\_73 Start: 49135, Stop: 49389, Start Num: 1

Candidate Starts for Wilder\_73:

(Start: 1 @49135 has 21 MA's), (Start: 2 @49156 has 1 MA's), (3, 49201), (4, 49231), (5, 49270), (6, 49276),

Gene: Winky\_72 Start: 49129, Stop: 49383, Start Num: 1

Candidate Starts for Winky\_72:

(Start: 1 @49129 has 21 MA's), (Start: 2 @49150 has 1 MA's), (3, 49195), (4, 49225), (5, 49264), (6, 49270),

Gene: Zakai\_73 Start: 49455, Stop: 49709, Start Num: 1

Candidate Starts for Zakai\_73:

(Start: 1 @49455 has 21 MA's), (Start: 2 @49476 has 1 MA's), (3, 49521), (4, 49551), (5, 49590), (6, 49596),