



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 200503 Report

This analysis was run 01/18/25 on database version 583.

Pham number 200503 has 29 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Sarshaun\_50, Wigglewiggle\_50, Miley16\_50, Gabriela\_50, Rumpelstiltskin\_50, Kahlid\_50, Zakai\_50, LilDestine\_50, GuuelaD\_49, DrSeegs\_50, Hafay\_50, Vetrix\_50, Loadrie\_49, Lewan\_51, BigCheese\_50, Finemlucis\_50, Soap141\_50, BobsGarage\_50, Nicholasp3\_50, Itos\_49, Gardann\_50, Netyap\_50, Faith1\_50, Wilder\_50, MkaliMitinis3\_50
- Track 2 : Archie\_50
- Track 3 : Claus\_50, DHan\_51
- Track 4 : Tourach\_49

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

The start number called the most often in the published annotations is 12, it was called in 23 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BigCheese\_50, BobsGarage\_50, DrSeegs\_50, Faith1\_50, Finemlucis\_50, Gabriela\_50, Gardann\_50, GuuelaD\_49, Hafay\_50, Itos\_49, Kahlid\_50, Lewan\_51, LilDestine\_50, Loadrie\_49, Miley16\_50, MkaliMitinis3\_50, Netyap\_50, Nicholasp3\_50, Rumpelstiltskin\_50, Sarshaun\_50, Soap141\_50, Tourach\_49, Vetrix\_50, Wigglewiggle\_50, Wilder\_50, Zakai\_50,

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

- Archie\_50, Claus\_50, DHan\_51,

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

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

Start 11:

- Found in 29 of 29 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 1 of 24
- Called 10.3% of time when present

- Phage (with cluster) where this start called: Archie\_50 (L2), Claus\_50 (L2), DHan\_51 (L2),

Start 12:

- Found in 29 of 29 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 23 of 24
- Called 89.7% of time when present
- Phage (with cluster) where this start called: BigCheese\_50 (L2), BobsGarage\_50 (L2), DrSeegs\_50 (L2), Faith1\_50 (L2), Finemlucis\_50 (L2), Gabriela\_50 (L2), Gardann\_50 (L2), GuuelaD\_49 (L2), Hafay\_50 (L2), Itos\_49 (L2), Kahlid\_50 (L2), Lewan\_51 (L2), LilDestine\_50 (L2), Loadrie\_49 (L2), Miley16\_50 (L2), MkaliMitinis3\_50 (L2), Netyap\_50 (L2), Nicholasp3\_50 (L2), Rumpelstiltskin\_50 (L2), Sarshaun\_50 (L2), Soap141\_50 (L2), Tourach\_49 (L2), Vetrix\_50 (L2), Wigglewiggles\_50 (L2), Wilder\_50 (L2), Zakai\_50 (L2),

### Summary by clusters:

There is one cluster represented in this pham: L2

Info for manual annotations of cluster L2:

- Start number 11 was manually annotated 1 time for cluster L2.
- Start number 12 was manually annotated 23 times for cluster L2.

### Gene Information:

Gene: Archie\_50 Start: 38398, Stop: 38559, Start Num: 11

Candidate Starts for Archie\_50:

(1, 38314), (3, 38332), (5, 38347), (6, 38353), (9, 38365), (10, 38383), (Start: 11 @38398 has 1 MA's), (Start: 12 @38431 has 23 MA's), (13, 38533),

Gene: BigCheese\_50 Start: 38266, Stop: 38394, Start Num: 12

Candidate Starts for BigCheese\_50:

(1, 38149), (3, 38167), (5, 38182), (6, 38188), (9, 38200), (10, 38218), (Start: 11 @38233 has 1 MA's), (Start: 12 @38266 has 23 MA's), (13, 38368),

Gene: BobsGarage\_50 Start: 38266, Stop: 38394, Start Num: 12

Candidate Starts for BobsGarage\_50:

(1, 38149), (3, 38167), (5, 38182), (6, 38188), (9, 38200), (10, 38218), (Start: 11 @38233 has 1 MA's), (Start: 12 @38266 has 23 MA's), (13, 38368),

Gene: Claus\_50 Start: 38244, Stop: 38405, Start Num: 11

Candidate Starts for Claus\_50:

(1, 38160), (3, 38178), (5, 38193), (6, 38199), (7, 38205), (8, 38208), (9, 38211), (10, 38229), (Start: 11 @38244 has 1 MA's), (Start: 12 @38277 has 23 MA's), (13, 38379),

Gene: DHan\_51 Start: 38179, Stop: 38340, Start Num: 11

Candidate Starts for DHan\_51:

(1, 38095), (3, 38113), (5, 38128), (6, 38134), (7, 38140), (8, 38143), (9, 38146), (10, 38164), (Start: 11 @38179 has 1 MA's), (Start: 12 @38212 has 23 MA's), (13, 38314),

Gene: DrSeegs\_50 Start: 38266, Stop: 38394, Start Num: 12

Candidate Starts for DrSeegs\_50:

(1, 38149), (3, 38167), (5, 38182), (6, 38188), (9, 38200), (10, 38218), (Start: 11 @38233 has 1 MA's),  
(Start: 12 @38266 has 23 MA's), (13, 38368),

Gene: Faith1\_50 Start: 38266, Stop: 38394, Start Num: 12

Candidate Starts for Faith1\_50:

(1, 38149), (3, 38167), (5, 38182), (6, 38188), (9, 38200), (10, 38218), (Start: 11 @38233 has 1 MA's),  
(Start: 12 @38266 has 23 MA's), (13, 38368),

Gene: Finemlucis\_50 Start: 38552, Stop: 38680, Start Num: 12

Candidate Starts for Finemlucis\_50:

(1, 38435), (3, 38453), (5, 38468), (6, 38474), (9, 38486), (10, 38504), (Start: 11 @38519 has 1 MA's),  
(Start: 12 @38552 has 23 MA's), (13, 38654),

Gene: Gabriela\_50 Start: 38528, Stop: 38656, Start Num: 12

Candidate Starts for Gabriela\_50:

(1, 38411), (3, 38429), (5, 38444), (6, 38450), (9, 38462), (10, 38480), (Start: 11 @38495 has 1 MA's),  
(Start: 12 @38528 has 23 MA's), (13, 38630),

Gene: Gardann\_50 Start: 38267, Stop: 38395, Start Num: 12

Candidate Starts for Gardann\_50:

(1, 38150), (3, 38168), (5, 38183), (6, 38189), (9, 38201), (10, 38219), (Start: 11 @38234 has 1 MA's),  
(Start: 12 @38267 has 23 MA's), (13, 38369),

Gene: GuuelaD\_49 Start: 38305, Stop: 38433, Start Num: 12

Candidate Starts for GuuelaD\_49:

(1, 38188), (3, 38206), (5, 38221), (6, 38227), (9, 38239), (10, 38257), (Start: 11 @38272 has 1 MA's),  
(Start: 12 @38305 has 23 MA's), (13, 38407),

Gene: Hafay\_50 Start: 38328, Stop: 38456, Start Num: 12

Candidate Starts for Hafay\_50:

(1, 38211), (3, 38229), (5, 38244), (6, 38250), (9, 38262), (10, 38280), (Start: 11 @38295 has 1 MA's),  
(Start: 12 @38328 has 23 MA's), (13, 38430),

Gene: Itos\_49 Start: 37172, Stop: 37300, Start Num: 12

Candidate Starts for Itos\_49:

(1, 37055), (3, 37073), (5, 37088), (6, 37094), (9, 37106), (10, 37124), (Start: 11 @37139 has 1 MA's),  
(Start: 12 @37172 has 23 MA's), (13, 37274),

Gene: Kahlid\_50 Start: 38272, Stop: 38400, Start Num: 12

Candidate Starts for Kahlid\_50:

(1, 38155), (3, 38173), (5, 38188), (6, 38194), (9, 38206), (10, 38224), (Start: 11 @38239 has 1 MA's),  
(Start: 12 @38272 has 23 MA's), (13, 38374),

Gene: Lewan\_51 Start: 38290, Stop: 38418, Start Num: 12

Candidate Starts for Lewan\_51:

(1, 38173), (3, 38191), (5, 38206), (6, 38212), (9, 38224), (10, 38242), (Start: 11 @38257 has 1 MA's),  
(Start: 12 @38290 has 23 MA's), (13, 38392),

Gene: LilDestine\_50 Start: 38264, Stop: 38392, Start Num: 12

Candidate Starts for LilDestine\_50:

(1, 38147), (3, 38165), (5, 38180), (6, 38186), (9, 38198), (10, 38216), (Start: 11 @38231 has 1 MA's),  
(Start: 12 @38264 has 23 MA's), (13, 38366),

Gene: Loadrie\_49 Start: 38326, Stop: 38454, Start Num: 12

Candidate Starts for Loadrie\_49:

(1, 38209), (3, 38227), (5, 38242), (6, 38248), (9, 38260), (10, 38278), (Start: 11 @38293 has 1 MA's), (Start: 12 @38326 has 23 MA's), (13, 38428),

Gene: Miley16\_50 Start: 38266, Stop: 38394, Start Num: 12

Candidate Starts for Miley16\_50:

(1, 38149), (3, 38167), (5, 38182), (6, 38188), (9, 38200), (10, 38218), (Start: 11 @38233 has 1 MA's), (Start: 12 @38266 has 23 MA's), (13, 38368),

Gene: MkaliMitinis3\_50 Start: 38296, Stop: 38424, Start Num: 12

Candidate Starts for MkaliMitinis3\_50:

(1, 38179), (3, 38197), (5, 38212), (6, 38218), (9, 38230), (10, 38248), (Start: 11 @38263 has 1 MA's), (Start: 12 @38296 has 23 MA's), (13, 38398),

Gene: Netyap\_50 Start: 38266, Stop: 38394, Start Num: 12

Candidate Starts for Netyap\_50:

(1, 38149), (3, 38167), (5, 38182), (6, 38188), (9, 38200), (10, 38218), (Start: 11 @38233 has 1 MA's), (Start: 12 @38266 has 23 MA's), (13, 38368),

Gene: Nicholasp3\_50 Start: 38267, Stop: 38395, Start Num: 12

Candidate Starts for Nicholasp3\_50:

(1, 38150), (3, 38168), (5, 38183), (6, 38189), (9, 38201), (10, 38219), (Start: 11 @38234 has 1 MA's), (Start: 12 @38267 has 23 MA's), (13, 38369),

Gene: Rumpelstiltskin\_50 Start: 38533, Stop: 38661, Start Num: 12

Candidate Starts for Rumpelstiltskin\_50:

(1, 38416), (3, 38434), (5, 38449), (6, 38455), (9, 38467), (10, 38485), (Start: 11 @38500 has 1 MA's), (Start: 12 @38533 has 23 MA's), (13, 38635),

Gene: Sarshaun\_50 Start: 38328, Stop: 38456, Start Num: 12

Candidate Starts for Sarshaun\_50:

(1, 38211), (3, 38229), (5, 38244), (6, 38250), (9, 38262), (10, 38280), (Start: 11 @38295 has 1 MA's), (Start: 12 @38328 has 23 MA's), (13, 38430),

Gene: Soap141\_50 Start: 38328, Stop: 38456, Start Num: 12

Candidate Starts for Soap141\_50:

(1, 38211), (3, 38229), (5, 38244), (6, 38250), (9, 38262), (10, 38280), (Start: 11 @38295 has 1 MA's), (Start: 12 @38328 has 23 MA's), (13, 38430),

Gene: Tourach\_49 Start: 38287, Stop: 38415, Start Num: 12

Candidate Starts for Tourach\_49:

(1, 38170), (2, 38176), (3, 38188), (4, 38200), (5, 38203), (7, 38215), (8, 38218), (9, 38221), (10, 38239), (Start: 11 @38254 has 1 MA's), (Start: 12 @38287 has 23 MA's), (13, 38389),

Gene: Vetrix\_50 Start: 38272, Stop: 38400, Start Num: 12

Candidate Starts for Vetrix\_50:

(1, 38155), (3, 38173), (5, 38188), (6, 38194), (9, 38206), (10, 38224), (Start: 11 @38239 has 1 MA's), (Start: 12 @38272 has 23 MA's), (13, 38374),

Gene: Wigglewigggle\_50 Start: 38327, Stop: 38455, Start Num: 12

Candidate Starts for Wigglewigggle\_50:

(1, 38210), (3, 38228), (5, 38243), (6, 38249), (9, 38261), (10, 38279), (Start: 11 @38294 has 1 MA's),  
(Start: 12 @38327 has 23 MA's), (13, 38429),

Gene: Wilder\_50 Start: 38272, Stop: 38400, Start Num: 12

Candidate Starts for Wilder\_50:

(1, 38155), (3, 38173), (5, 38188), (6, 38194), (9, 38206), (10, 38224), (Start: 11 @38239 has 1 MA's),  
(Start: 12 @38272 has 23 MA's), (13, 38374),

Gene: Zakai\_50 Start: 38524, Stop: 38652, Start Num: 12

Candidate Starts for Zakai\_50:

(1, 38407), (3, 38425), (5, 38440), (6, 38446), (9, 38458), (10, 38476), (Start: 11 @38491 has 1 MA's),  
(Start: 12 @38524 has 23 MA's), (13, 38626),