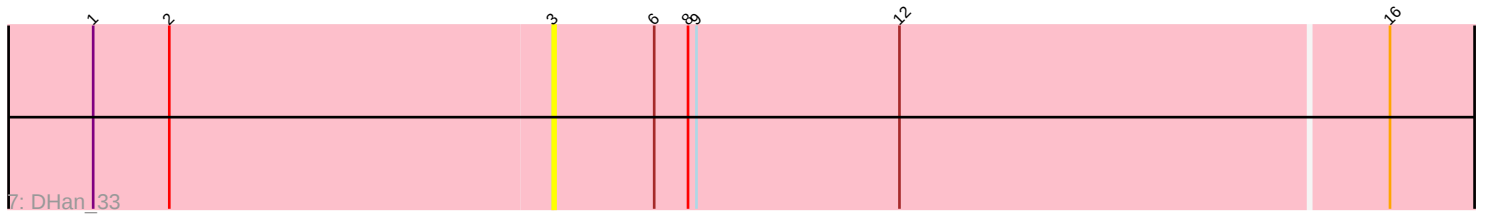
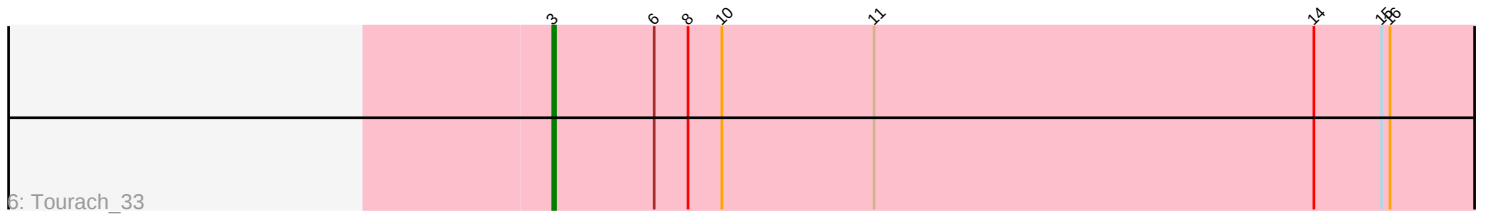
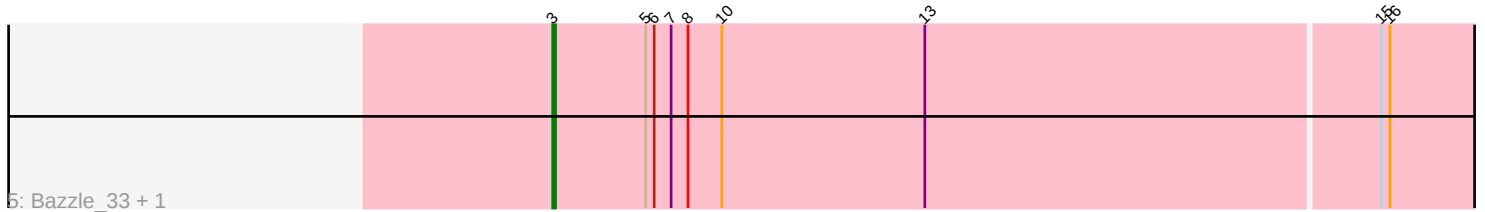
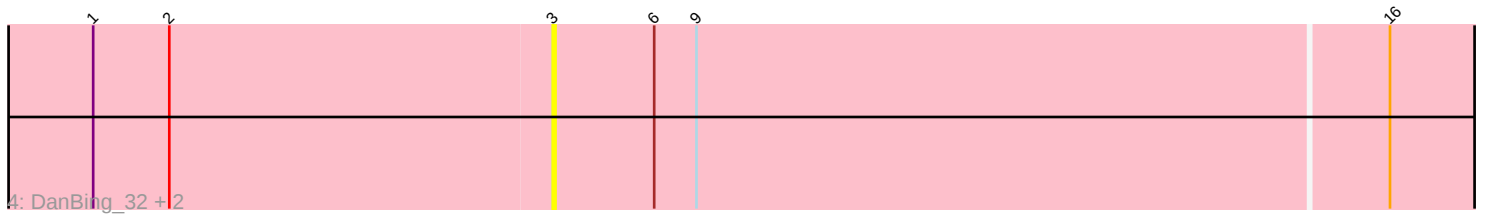
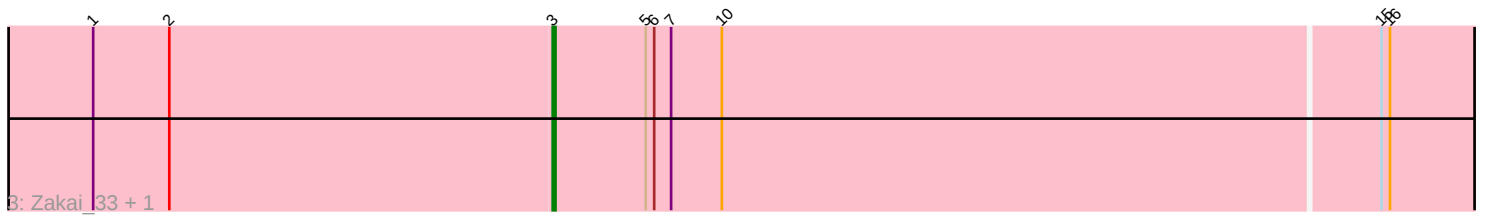
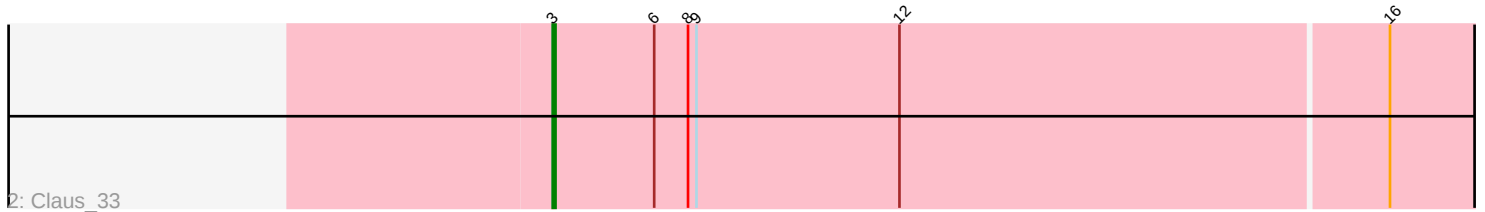
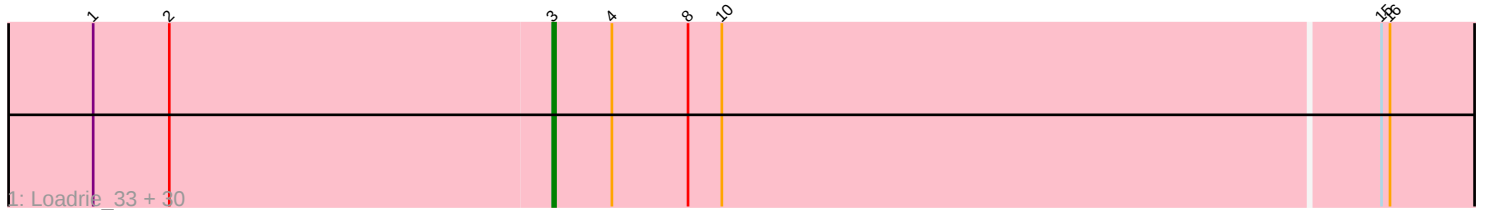


Pham 280610



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 280610 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280610 has 41 members, 11 are drafts.

Phages represented in each track:

- Track 1 : Loadrie\_33, Gabriela\_33, Sarshaun\_33, Underpass\_33, Kahlid\_33, BigCheese\_33, OverPar\_34, Rumpelstiltskin\_33, Hafay\_33, BobsGarage\_33, Wigglewiggles\_33, Itos\_33, Breezona\_33, DrSeegs\_33, Lewan\_33, Finemlucis\_33, Winky\_33, Faith1\_33, Vetrix\_33, Lynnae\_33, GuuelaD\_33, LilDestine\_33, Soap141\_33, Gardann\_33, Wilder\_33, MkaliMitinis3\_33, Netyap\_33, Nicholasp3\_33, SoJulia\_34, Crossroads\_33, Miley16\_33
- Track 2 : Claus\_33
- Track 3 : Zakai\_33, Rossetti\_33
- Track 4 : DanBing\_32, Baoshan\_32, ZhongYanYuan\_32
- Track 5 : Bazzle\_33, Archie\_33
- Track 6 : Tourach\_33
- Track 7 : DHan\_33

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

The start number called the most often in the published annotations is 3, it was called in 30 of the 30 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Archie\_33, Baoshan\_32, Bazzle\_33, BigCheese\_33, BobsGarage\_33, Breezona\_33, Claus\_33, Crossroads\_33, DHan\_33, DanBing\_32, DrSeegs\_33, Faith1\_33, Finemlucis\_33, Gabriela\_33, Gardann\_33, GuuelaD\_33, Hafay\_33, Itos\_33, Kahlid\_33, Lewan\_33, LilDestine\_33, Loadrie\_33, Lynnae\_33, Miley16\_33, MkaliMitinis3\_33, Netyap\_33, Nicholasp3\_33, OverPar\_34, Rossetti\_33, Rumpelstiltskin\_33, Sarshaun\_33, SoJulia\_34, Soap141\_33, Tourach\_33, Underpass\_33, Vetrix\_33, Wigglewiggles\_33, Wilder\_33, Winky\_33, Zakai\_33, ZhongYanYuan\_32,

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 3:

- Found in 41 of 41 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 30 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Archie\_33 (L2), Baoshan\_32 (L2), Bazzle\_33 (L2), BigCheese\_33 (L2), BobsGarage\_33 (L2), Breezona\_33 (L2), Claus\_33 (L2), Crossroads\_33 (L2), DHan\_33 (L2), DanBing\_32 (L2), DrSeegs\_33 (L2), Faith1\_33 (L2), Finemlucis\_33 (L2), Gabriela\_33 (L2), Gardann\_33 (L2), GuuelaD\_33 (L2), Hafay\_33 (L2), Itos\_33 (L2), Kahlid\_33 (L2), Lewan\_33 (L2), LilDestine\_33 (L2), Loadrie\_33 (L2), Lynnae\_33 (L2), Miley16\_33 (L2), MkaliMitinis3\_33 (L2), Netyap\_33 (L2), Nicholasp3\_33 (L2), OverPar\_34 (L2), Rossetti\_33 (L2), Rumpelstiltskin\_33 (L2), Sarshaun\_33 (L2), SoJulia\_34 (L2), Soap141\_33 (L2), Tourach\_33 (L2), Underpass\_33 (L2), Vetrix\_33 (L2), Wigglewiggle\_33 (L2), Wilder\_33 (L2), Winky\_33 (L2), Zakai\_33 (L2), ZhongYanYuan\_32 (L2),

## Summary by clusters:

There is one cluster represented in this pham: L2

Info for manual annotations of cluster L2:

- Start number 3 was manually annotated 30 times for cluster L2.

## Gene Information:

Gene: Archie\_33 Start: 29591, Stop: 29247, Start Num: 3

Candidate Starts for Archie\_33:

(Start: 3 @29591 has 30 MA's), (5, 29558), (6, 29555), (7, 29549), (8, 29543), (10, 29531), (13, 29459), (15, 29300), (16, 29297),

Gene: Baoshan\_32 Start: 28923, Stop: 28579, Start Num: 3

Candidate Starts for Baoshan\_32:

(1, 29085), (2, 29058), (Start: 3 @28923 has 30 MA's), (6, 28887), (9, 28872), (16, 28629),

Gene: Bazzle\_33 Start: 29340, Stop: 28996, Start Num: 3

Candidate Starts for Bazzle\_33:

(Start: 3 @29340 has 30 MA's), (5, 29307), (6, 29304), (7, 29298), (8, 29292), (10, 29280), (13, 29208), (15, 29049), (16, 29046),

Gene: BigCheese\_33 Start: 29102, Stop: 28758, Start Num: 3

Candidate Starts for BigCheese\_33:

(1, 29264), (2, 29237), (Start: 3 @29102 has 30 MA's), (4, 29081), (8, 29054), (10, 29042), (15, 28811), (16, 28808),

Gene: BobsGarage\_33 Start: 29102, Stop: 28758, Start Num: 3

Candidate Starts for BobsGarage\_33:

(1, 29264), (2, 29237), (Start: 3 @29102 has 30 MA's), (4, 29081), (8, 29054), (10, 29042), (15, 28811), (16, 28808),

Gene: Breezona\_33 Start: 29102, Stop: 28758, Start Num: 3

Candidate Starts for Breezona\_33:

(1, 29264), (2, 29237), (Start: 3 @29102 has 30 MA's), (4, 29081), (8, 29054), (10, 29042), (15, 28811), (16, 28808),

Gene: Claus\_33 Start: 29079, Stop: 28735, Start Num: 3

Candidate Starts for Claus\_33:

(Start: 3 @29079 has 30 MA's), (6, 29043), (8, 29031), (9, 29028), (12, 28956), (16, 28785),

Gene: Crossroads\_33 Start: 29102, Stop: 28758, Start Num: 3

Candidate Starts for Crossroads\_33:

(1, 29264), (2, 29237), (Start: 3 @29102 has 30 MA's), (4, 29081), (8, 29054), (10, 29042), (15, 28811), (16, 28808),

Gene: DHan\_33 Start: 29015, Stop: 28671, Start Num: 3

Candidate Starts for DHan\_33:

(1, 29177), (2, 29150), (Start: 3 @29015 has 30 MA's), (6, 28979), (8, 28967), (9, 28964), (12, 28892), (16, 28721),

Gene: DanBing\_32 Start: 28919, Stop: 28575, Start Num: 3

Candidate Starts for DanBing\_32:

(1, 29081), (2, 29054), (Start: 3 @28919 has 30 MA's), (6, 28883), (9, 28868), (16, 28625),

Gene: DrSeegs\_33 Start: 29102, Stop: 28758, Start Num: 3

Candidate Starts for DrSeegs\_33:

(1, 29264), (2, 29237), (Start: 3 @29102 has 30 MA's), (4, 29081), (8, 29054), (10, 29042), (15, 28811), (16, 28808),

Gene: Faith1\_33 Start: 29102, Stop: 28758, Start Num: 3

Candidate Starts for Faith1\_33:

(1, 29264), (2, 29237), (Start: 3 @29102 has 30 MA's), (4, 29081), (8, 29054), (10, 29042), (15, 28811), (16, 28808),

Gene: Finemlucis\_33 Start: 29378, Stop: 29034, Start Num: 3

Candidate Starts for Finemlucis\_33:

(1, 29540), (2, 29513), (Start: 3 @29378 has 30 MA's), (4, 29357), (8, 29330), (10, 29318), (15, 29087), (16, 29084),

Gene: Gabriela\_33 Start: 29364, Stop: 29020, Start Num: 3

Candidate Starts for Gabriela\_33:

(1, 29526), (2, 29499), (Start: 3 @29364 has 30 MA's), (4, 29343), (8, 29316), (10, 29304), (15, 29073), (16, 29070),

Gene: Gardann\_33 Start: 29104, Stop: 28760, Start Num: 3

Candidate Starts for Gardann\_33:

(1, 29266), (2, 29239), (Start: 3 @29104 has 30 MA's), (4, 29083), (8, 29056), (10, 29044), (15, 28813), (16, 28810),

Gene: GuuelaD\_33 Start: 29136, Stop: 28792, Start Num: 3

Candidate Starts for GuuelaD\_33:

(1, 29298), (2, 29271), (Start: 3 @29136 has 30 MA's), (4, 29115), (8, 29088), (10, 29076), (15, 28845), (16, 28842),

Gene: Hafay\_33 Start: 29135, Stop: 28791, Start Num: 3

Candidate Starts for Hafay\_33:

(1, 29297), (2, 29270), (Start: 3 @29135 has 30 MA's), (4, 29114), (8, 29087), (10, 29075), (15, 28844), (16, 28841),

Gene: Itos\_33 Start: 29102, Stop: 28758, Start Num: 3

Candidate Starts for Itos\_33:

(1, 29264), (2, 29237), (Start: 3 @29102 has 30 MA's), (4, 29081), (8, 29054), (10, 29042), (15, 28811), (16, 28808),

Gene: Kahlid\_33 Start: 29107, Stop: 28763, Start Num: 3

Candidate Starts for Kahlid\_33:

(1, 29269), (2, 29242), (Start: 3 @29107 has 30 MA's), (4, 29086), (8, 29059), (10, 29047), (15, 28816), (16, 28813),

Gene: Lewan\_33 Start: 29102, Stop: 28758, Start Num: 3

Candidate Starts for Lewan\_33:

(1, 29264), (2, 29237), (Start: 3 @29102 has 30 MA's), (4, 29081), (8, 29054), (10, 29042), (15, 28811), (16, 28808),

Gene: LilDestine\_33 Start: 29101, Stop: 28757, Start Num: 3

Candidate Starts for LilDestine\_33:

(1, 29263), (2, 29236), (Start: 3 @29101 has 30 MA's), (4, 29080), (8, 29053), (10, 29041), (15, 28810), (16, 28807),

Gene: Loadrie\_33 Start: 29134, Stop: 28790, Start Num: 3

Candidate Starts for Loadrie\_33:

(1, 29296), (2, 29269), (Start: 3 @29134 has 30 MA's), (4, 29113), (8, 29086), (10, 29074), (15, 28843), (16, 28840),

Gene: Lynnae\_33 Start: 29090, Stop: 28746, Start Num: 3

Candidate Starts for Lynnae\_33:

(1, 29252), (2, 29225), (Start: 3 @29090 has 30 MA's), (4, 29069), (8, 29042), (10, 29030), (15, 28799), (16, 28796),

Gene: Miley16\_33 Start: 29102, Stop: 28758, Start Num: 3

Candidate Starts for Miley16\_33:

(1, 29264), (2, 29237), (Start: 3 @29102 has 30 MA's), (4, 29081), (8, 29054), (10, 29042), (15, 28811), (16, 28808),

Gene: MkaliMitinis3\_33 Start: 29102, Stop: 28758, Start Num: 3

Candidate Starts for MkaliMitinis3\_33:

(1, 29264), (2, 29237), (Start: 3 @29102 has 30 MA's), (4, 29081), (8, 29054), (10, 29042), (15, 28811), (16, 28808),

Gene: Netyap\_33 Start: 29102, Stop: 28758, Start Num: 3

Candidate Starts for Netyap\_33:

(1, 29264), (2, 29237), (Start: 3 @29102 has 30 MA's), (4, 29081), (8, 29054), (10, 29042), (15, 28811), (16, 28808),

Gene: Nicholasp3\_33 Start: 29104, Stop: 28760, Start Num: 3

Candidate Starts for Nicholasp3\_33:

(1, 29266), (2, 29239), (Start: 3 @29104 has 30 MA's), (4, 29083), (8, 29056), (10, 29044), (15, 28813), (16, 28810),

Gene: OverPar\_34 Start: 29134, Stop: 28790, Start Num: 3

Candidate Starts for OverPar\_34:

(1, 29296), (2, 29269), (Start: 3 @29134 has 30 MA's), (4, 29113), (8, 29086), (10, 29074), (15, 28843), (16, 28840),

Gene: Rossetti\_33 Start: 29374, Stop: 29030, Start Num: 3

Candidate Starts for Rossetti\_33:

(1, 29536), (2, 29509), (Start: 3 @29374 has 30 MA's), (5, 29341), (6, 29338), (7, 29332), (10, 29314), (15, 29083), (16, 29080),

Gene: Rumpelstiltskin\_33 Start: 29370, Stop: 29026, Start Num: 3

Candidate Starts for Rumpelstiltskin\_33:

(1, 29532), (2, 29505), (Start: 3 @29370 has 30 MA's), (4, 29349), (8, 29322), (10, 29310), (15, 29079), (16, 29076),

Gene: Sarshaun\_33 Start: 29135, Stop: 28791, Start Num: 3

Candidate Starts for Sarshaun\_33:

(1, 29297), (2, 29270), (Start: 3 @29135 has 30 MA's), (4, 29114), (8, 29087), (10, 29075), (15, 28844), (16, 28841),

Gene: SoJulia\_34 Start: 29363, Stop: 29019, Start Num: 3

Candidate Starts for SoJulia\_34:

(1, 29525), (2, 29498), (Start: 3 @29363 has 30 MA's), (4, 29342), (8, 29315), (10, 29303), (15, 29072), (16, 29069),

Gene: Soap141\_33 Start: 29135, Stop: 28791, Start Num: 3

Candidate Starts for Soap141\_33:

(1, 29297), (2, 29270), (Start: 3 @29135 has 30 MA's), (4, 29114), (8, 29087), (10, 29075), (15, 28844), (16, 28841),

Gene: Tourach\_33 Start: 29096, Stop: 28749, Start Num: 3

Candidate Starts for Tourach\_33:

(Start: 3 @29096 has 30 MA's), (6, 29060), (8, 29048), (10, 29036), (11, 28982), (14, 28826), (15, 28802), (16, 28799),

Gene: Underpass\_33 Start: 29104, Stop: 28760, Start Num: 3

Candidate Starts for Underpass\_33:

(1, 29266), (2, 29239), (Start: 3 @29104 has 30 MA's), (4, 29083), (8, 29056), (10, 29044), (15, 28813), (16, 28810),

Gene: Vetrix\_33 Start: 29108, Stop: 28764, Start Num: 3

Candidate Starts for Vetrix\_33:

(1, 29270), (2, 29243), (Start: 3 @29108 has 30 MA's), (4, 29087), (8, 29060), (10, 29048), (15, 28817), (16, 28814),

Gene: Wigglewiggle\_33 Start: 29134, Stop: 28790, Start Num: 3

Candidate Starts for Wigglewiggle\_33:

(1, 29296), (2, 29269), (Start: 3 @29134 has 30 MA's), (4, 29113), (8, 29086), (10, 29074), (15, 28843), (16, 28840),

Gene: Wilder\_33 Start: 29107, Stop: 28763, Start Num: 3

Candidate Starts for Wilder\_33:

(1, 29269), (2, 29242), (Start: 3 @29107 has 30 MA's), (4, 29086), (8, 29059), (10, 29047), (15, 28816), (16, 28813),

Gene: Winky\_33 Start: 29102, Stop: 28758, Start Num: 3

Candidate Starts for Winky\_33:

(1, 29264), (2, 29237), (Start: 3 @29102 has 30 MA's), (4, 29081), (8, 29054), (10, 29042), (15, 28811), (16, 28808),

Gene: Zakai\_33 Start: 29358, Stop: 29014, Start Num: 3

Candidate Starts for Zakai\_33:

(1, 29520), (2, 29493), (Start: 3 @29358 has 30 MA's), (5, 29325), (6, 29322), (7, 29316), (10, 29298), (15, 29067), (16, 29064),

Gene: ZhongYanYuan\_32 Start: 28923, Stop: 28579, Start Num: 3

Candidate Starts for ZhongYanYuan\_32:

(1, 29085), (2, 29058), (Start: 3 @28923 has 30 MA's), (6, 28887), (9, 28872), (16, 28629),