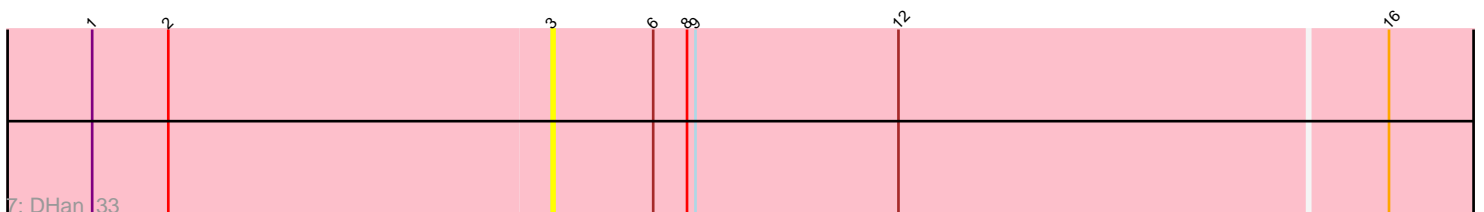
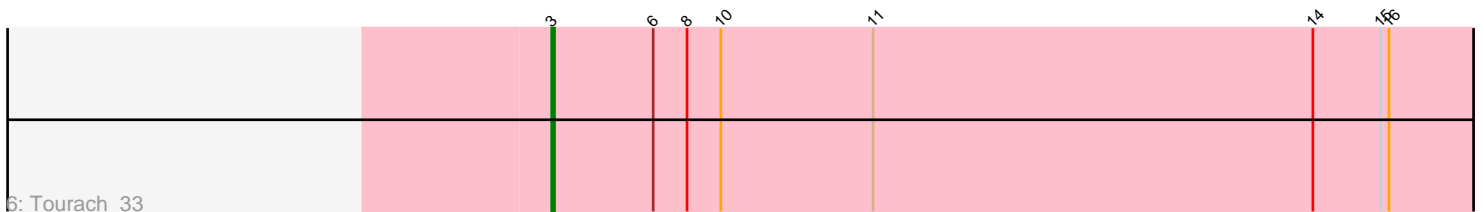
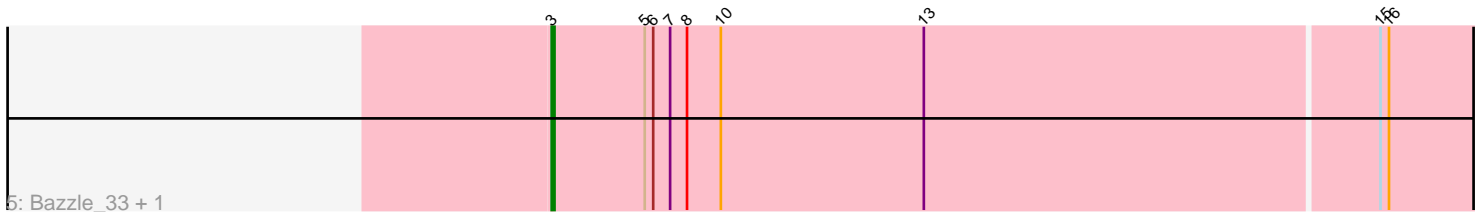
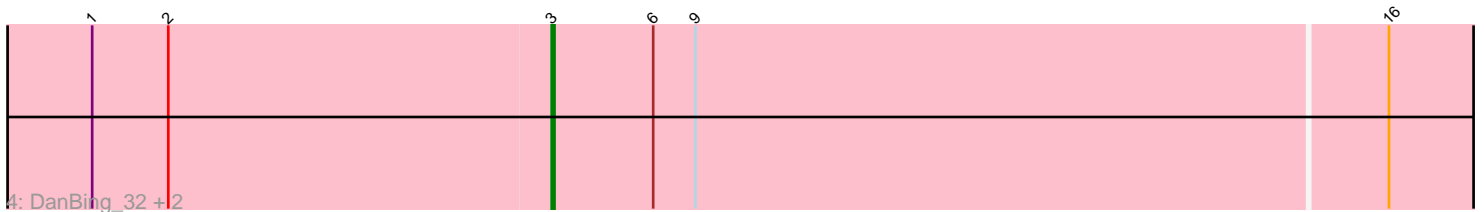
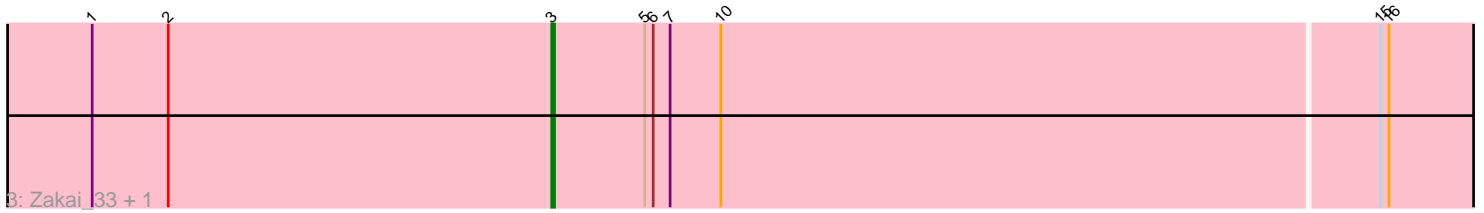
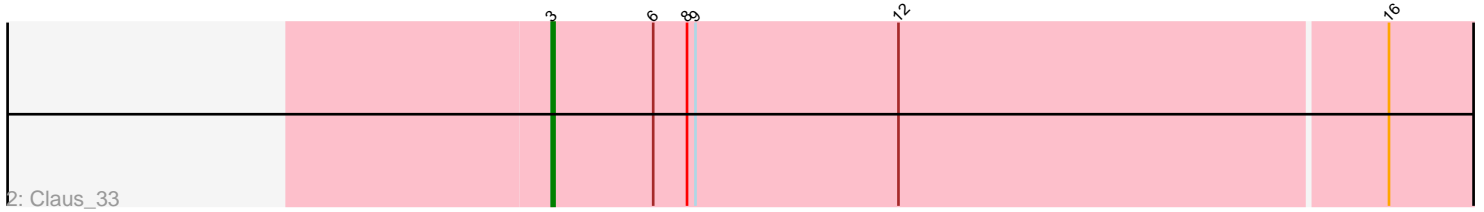
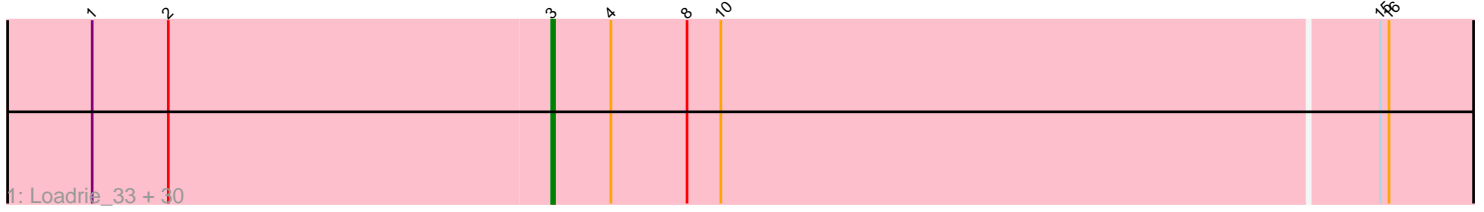


Pham 301521



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 301521 Report

This analysis was run 06/12/26 on database version 650.

Pham number 301521 has 41 members, 10 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, Vetric_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 31 of the 31 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, Vetric_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: 31 of 31
- 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), Wigglewiggles_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 31 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 31 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 31 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 31 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 31 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 31 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 31 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 31 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 31 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 31 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 31 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 31 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 31 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 31 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 31 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 31 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 31 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 31 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 31 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 31 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 31 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 31 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 31 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 31 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 31 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 31 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 31 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 31 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 31 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 31 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 31 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 31 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 31 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 31 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 31 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 31 MA's), (4, 29083), (8, 29056), (10, 29044), (15, 28813), (16, 28810),

Gene: Vetric_33 Start: 29108, Stop: 28764, Start Num: 3

Candidate Starts for Vetric_33:

(1, 29270), (2, 29243), (Start: 3 @29108 has 31 MA's), (4, 29087), (8, 29060), (10, 29048), (15, 28817), (16, 28814),

Gene: Wigglewigg_33 Start: 29134, Stop: 28790, Start Num: 3

Candidate Starts for Wigglewigg_33:

(1, 29296), (2, 29269), (Start: 3 @29134 has 31 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 31 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 31 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 31 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 31 MA's), (6, 28887), (9, 28872), (16, 28629),