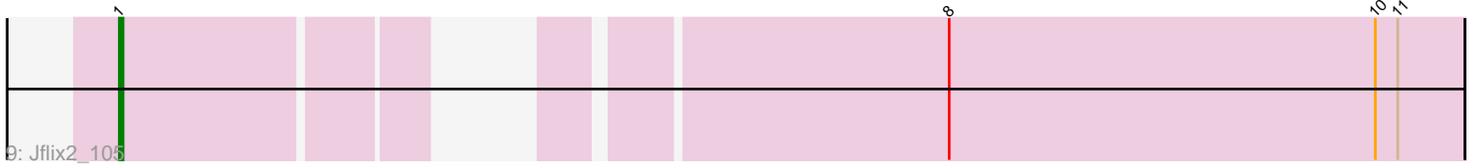
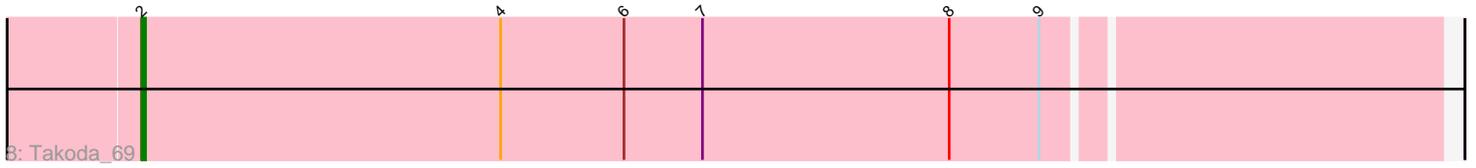
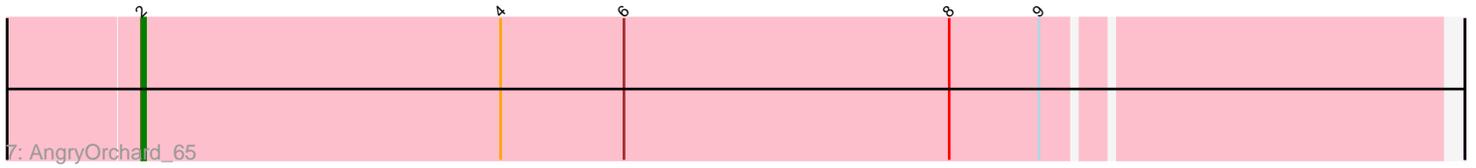
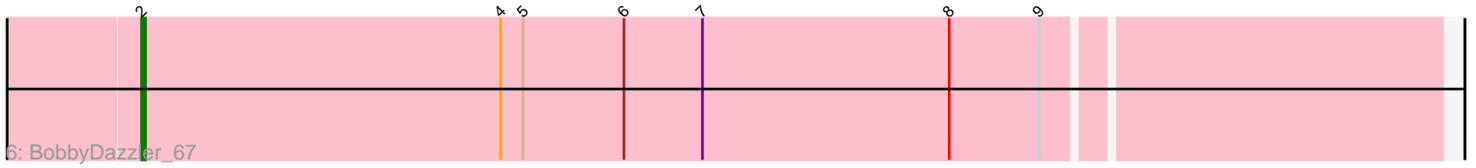
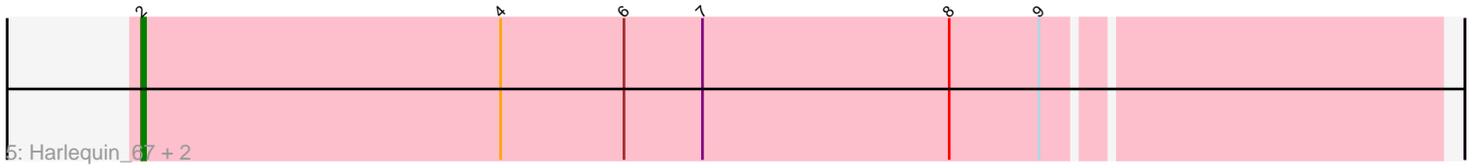
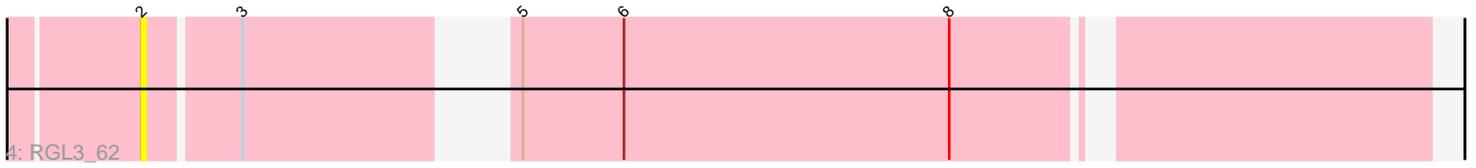
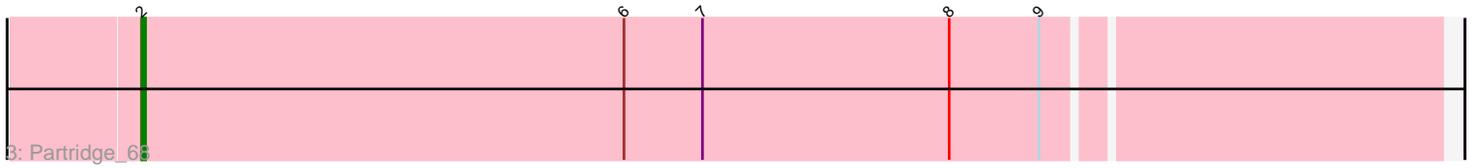
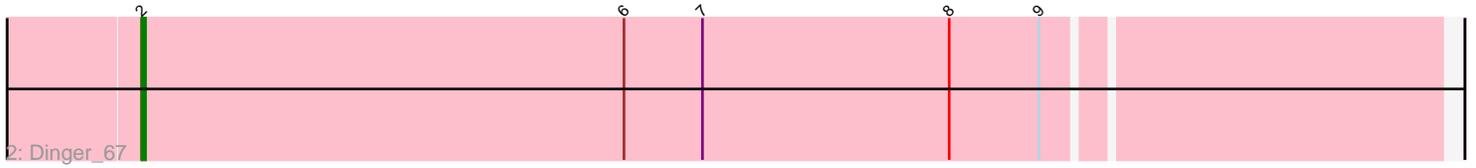
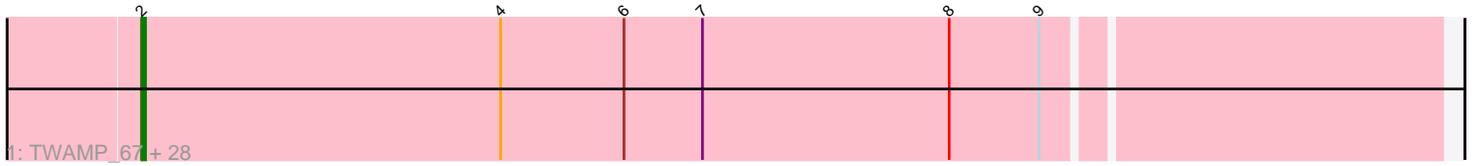


Pham 291335



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 291335 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291335 has 39 members, 2 are drafts.

Phages represented in each track:

- Track 1 : TWAMP_67, Gollum_67, Hiro_67, Yogi_68, Alatin_66, Espica_68, RER2_61, Bonanza_68, Alpacados_66, UhSalsa_67, Rasputin_67, Bradshaw_67, AppleCloud_64, StCroix_66, Shuman_68, Swann_67, Belenaria_68, Nancinator_66, Phrankenstein_67, Yoncess_66, RexFury_66, CosmicSans_67, Naiad_66, Lillie_67, Natosaleda_66, Rhodalysa_67, Krishelle_67, PhailMary_64, Erik_67
- Track 2 : Dinger_67
- Track 3 : Partridge_68
- Track 4 : RGL3_62
- Track 5 : Harlequin_67, Jester_66, Bryce_66
- Track 6 : BobbyDazzler_67
- Track 7 : AngryOrchard_65
- Track 8 : Takoda_69
- Track 9 : Jflix2_105

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

The start number called the most often in the published annotations is 2, it was called in 36 of the 37 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alatin_66, Alpacados_66, AngryOrchard_65, AppleCloud_64, Belenaria_68, BobbyDazzler_67, Bonanza_68, Bradshaw_67, Bryce_66, CosmicSans_67, Dinger_67, Erik_67, Espica_68, Gollum_67, Harlequin_67, Hiro_67, Jester_66, Krishelle_67, Lillie_67, Naiad_66, Nancinator_66, Natosaleda_66, Partridge_68, PhailMary_64, Phrankenstein_67, RER2_61, RGL3_62, Rasputin_67, RexFury_66, Rhodalysa_67, Shuman_68, StCroix_66, Swann_67, TWAMP_67, Takoda_69, UhSalsa_67, Yogi_68, Yoncess_66,

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

-

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

- Jflix2_105,

Summary by start number:

Start 1:

- Found in 1 of 39 (2.6%) of genes in pham
- Manual Annotations of this start: 1 of 37
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JfliX2_105 (CF),

Start 2:

- Found in 38 of 39 (97.4%) of genes in pham
- Manual Annotations of this start: 36 of 37
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alatin_66 (CA), Alpacados_66 (CA), AngryOrchard_65 (CA), AppleCloud_64 (CA), Belenaria_68 (CA), BobbyDazzler_67 (CA), Bonanza_68 (CA), Bradshaw_67 (CA), Bryce_66 (CA), CosmicSans_67 (CA), Dinger_67 (CA), Erik_67 (CA), Espica_68 (CA), Gollum_67 (CA), Harlequin_67 (CA), Hiro_67 (CA), Jester_66 (CA), Krishelle_67 (CA), Lillie_67 (CA), Naiad_66 (CA), Nancinator_66 (CA), Natosaleda_66 (CA), Partridge_68 (CA), PhailMary_64 (CA), PhrankenStein_67 (CA), RER2_61 (CA), RGL3_62 (CA), Rasputin_67 (CA), RexFury_66 (CA), Rhodalysa_67 (CA), Shuman_68 (CA), StCroix_66 (CA), Swann_67 (CA), TWAMP_67 (CA), Takoda_69 (CA), UhSalsa_67 (CA), Yogi_68 (CA), Yoncess_66 (CA),

Summary by clusters:

There are 2 clusters represented in this pham: CA, CF,

Info for manual annotations of cluster CA:

- Start number 2 was manually annotated 36 times for cluster CA.

Info for manual annotations of cluster CF:

- Start number 1 was manually annotated 1 time for cluster CF.

Gene Information:

Gene: Alatin_66 Start: 44950, Stop: 44609, Start Num: 2

Candidate Starts for Alatin_66:

(Start: 2 @44950 has 36 MA's), (4, 44854), (6, 44821), (7, 44800), (8, 44734), (9, 44710),

Gene: Alpacados_66 Start: 44773, Stop: 44432, Start Num: 2

Candidate Starts for Alpacados_66:

(Start: 2 @44773 has 36 MA's), (4, 44677), (6, 44644), (7, 44623), (8, 44557), (9, 44533),

Gene: AngryOrchard_65 Start: 44992, Stop: 44651, Start Num: 2

Candidate Starts for AngryOrchard_65:

(Start: 2 @44992 has 36 MA's), (4, 44896), (6, 44863), (8, 44776), (9, 44752),

Gene: AppleCloud_64 Start: 44667, Stop: 44326, Start Num: 2

Candidate Starts for AppleCloud_64:

(Start: 2 @44667 has 36 MA's), (4, 44571), (6, 44538), (7, 44517), (8, 44451), (9, 44427),

Gene: Belenaria_68 Start: 44815, Stop: 44474, Start Num: 2

Candidate Starts for Belenaria_68:

(Start: 2 @44815 has 36 MA's), (4, 44719), (6, 44686), (7, 44665), (8, 44599), (9, 44575),

Gene: BobbyDazzler_67 Start: 44921, Stop: 44580, Start Num: 2

Candidate Starts for BobbyDazzler_67:

(Start: 2 @44921 has 36 MA's), (4, 44825), (5, 44819), (6, 44792), (7, 44771), (8, 44705), (9, 44681),

Gene: Bonanza_68 Start: 45225, Stop: 44884, Start Num: 2

Candidate Starts for Bonanza_68:

(Start: 2 @45225 has 36 MA's), (4, 45129), (6, 45096), (7, 45075), (8, 45009), (9, 44985),

Gene: Bradshaw_67 Start: 44883, Stop: 44542, Start Num: 2

Candidate Starts for Bradshaw_67:

(Start: 2 @44883 has 36 MA's), (4, 44787), (6, 44754), (7, 44733), (8, 44667), (9, 44643),

Gene: Bryce_66 Start: 44629, Stop: 44288, Start Num: 2

Candidate Starts for Bryce_66:

(Start: 2 @44629 has 36 MA's), (4, 44533), (6, 44500), (7, 44479), (8, 44413), (9, 44389),

Gene: CosmicSans_67 Start: 44874, Stop: 44533, Start Num: 2

Candidate Starts for CosmicSans_67:

(Start: 2 @44874 has 36 MA's), (4, 44778), (6, 44745), (7, 44724), (8, 44658), (9, 44634),

Gene: Dinger_67 Start: 45010, Stop: 44669, Start Num: 2

Candidate Starts for Dinger_67:

(Start: 2 @45010 has 36 MA's), (6, 44881), (7, 44860), (8, 44794), (9, 44770),

Gene: Erik_67 Start: 44705, Stop: 44364, Start Num: 2

Candidate Starts for Erik_67:

(Start: 2 @44705 has 36 MA's), (4, 44609), (6, 44576), (7, 44555), (8, 44489), (9, 44465),

Gene: Espica_68 Start: 44815, Stop: 44474, Start Num: 2

Candidate Starts for Espica_68:

(Start: 2 @44815 has 36 MA's), (4, 44719), (6, 44686), (7, 44665), (8, 44599), (9, 44575),

Gene: Gollum_67 Start: 44816, Stop: 44475, Start Num: 2

Candidate Starts for Gollum_67:

(Start: 2 @44816 has 36 MA's), (4, 44720), (6, 44687), (7, 44666), (8, 44600), (9, 44576),

Gene: Harlequin_67 Start: 44664, Stop: 44323, Start Num: 2

Candidate Starts for Harlequin_67:

(Start: 2 @44664 has 36 MA's), (4, 44568), (6, 44535), (7, 44514), (8, 44448), (9, 44424),

Gene: Hiro_67 Start: 45135, Stop: 44794, Start Num: 2

Candidate Starts for Hiro_67:

(Start: 2 @45135 has 36 MA's), (4, 45039), (6, 45006), (7, 44985), (8, 44919), (9, 44895),

Gene: Jester_66 Start: 44595, Stop: 44254, Start Num: 2

Candidate Starts for Jester_66:

(Start: 2 @44595 has 36 MA's), (4, 44499), (6, 44466), (7, 44445), (8, 44379), (9, 44355),

Gene: Jflix2_105 Start: 60673, Stop: 60356, Start Num: 1

Candidate Starts for Jflix2_105:

(Start: 1 @60673 has 1 MA's), (8, 60493), (10, 60379), (11, 60373),

Gene: Krishelle_67 Start: 45243, Stop: 44902, Start Num: 2

Candidate Starts for Krishelle_67:

(Start: 2 @45243 has 36 MA's), (4, 45147), (6, 45114), (7, 45093), (8, 45027), (9, 45003),

Gene: Lillie_67 Start: 44874, Stop: 44533, Start Num: 2

Candidate Starts for Lillie_67:

(Start: 2 @44874 has 36 MA's), (4, 44778), (6, 44745), (7, 44724), (8, 44658), (9, 44634),

Gene: Naiad_66 Start: 44896, Stop: 44555, Start Num: 2

Candidate Starts for Naiad_66:

(Start: 2 @44896 has 36 MA's), (4, 44800), (6, 44767), (7, 44746), (8, 44680), (9, 44656),

Gene: Nancinator_66 Start: 44213, Stop: 43872, Start Num: 2

Candidate Starts for Nancinator_66:

(Start: 2 @44213 has 36 MA's), (4, 44117), (6, 44084), (7, 44063), (8, 43997), (9, 43973),

Gene: Natosaleda_66 Start: 44814, Stop: 44473, Start Num: 2

Candidate Starts for Natosaleda_66:

(Start: 2 @44814 has 36 MA's), (4, 44718), (6, 44685), (7, 44664), (8, 44598), (9, 44574),

Gene: Partridge_68 Start: 45356, Stop: 45015, Start Num: 2

Candidate Starts for Partridge_68:

(Start: 2 @45356 has 36 MA's), (6, 45227), (7, 45206), (8, 45140), (9, 45116),

Gene: PhailMary_64 Start: 43891, Stop: 43550, Start Num: 2

Candidate Starts for PhailMary_64:

(Start: 2 @43891 has 36 MA's), (4, 43795), (6, 43762), (7, 43741), (8, 43675), (9, 43651),

Gene: Phrankenstein_67 Start: 44820, Stop: 44479, Start Num: 2

Candidate Starts for Phrankenstein_67:

(Start: 2 @44820 has 36 MA's), (4, 44724), (6, 44691), (7, 44670), (8, 44604), (9, 44580),

Gene: RER2_61 Start: 41746, Stop: 41405, Start Num: 2

Candidate Starts for RER2_61:

(Start: 2 @41746 has 36 MA's), (4, 41650), (6, 41617), (7, 41596), (8, 41530), (9, 41506),

Gene: RGL3_62 Start: 43307, Stop: 42999, Start Num: 2

Candidate Starts for RGL3_62:

(Start: 2 @43307 has 36 MA's), (3, 43283), (5, 43229), (6, 43202), (8, 43115),

Gene: Rasputin_67 Start: 44844, Stop: 44503, Start Num: 2

Candidate Starts for Rasputin_67:

(Start: 2 @44844 has 36 MA's), (4, 44748), (6, 44715), (7, 44694), (8, 44628), (9, 44604),

Gene: RexFury_66 Start: 44904, Stop: 44563, Start Num: 2

Candidate Starts for RexFury_66:

(Start: 2 @44904 has 36 MA's), (4, 44808), (6, 44775), (7, 44754), (8, 44688), (9, 44664),

Gene: Rhodalysa_67 Start: 44874, Stop: 44533, Start Num: 2

Candidate Starts for Rhodalysa_67:

(Start: 2 @44874 has 36 MA's), (4, 44778), (6, 44745), (7, 44724), (8, 44658), (9, 44634),

Gene: Shuman_68 Start: 44825, Stop: 44484, Start Num: 2

Candidate Starts for Shuman_68:

(Start: 2 @44825 has 36 MA's), (4, 44729), (6, 44696), (7, 44675), (8, 44609), (9, 44585),

Gene: StCroix_66 Start: 44896, Stop: 44555, Start Num: 2

Candidate Starts for StCroix_66:

(Start: 2 @44896 has 36 MA's), (4, 44800), (6, 44767), (7, 44746), (8, 44680), (9, 44656),

Gene: Swann_67 Start: 44872, Stop: 44531, Start Num: 2

Candidate Starts for Swann_67:

(Start: 2 @44872 has 36 MA's), (4, 44776), (6, 44743), (7, 44722), (8, 44656), (9, 44632),

Gene: TWAMP_67 Start: 44874, Stop: 44533, Start Num: 2

Candidate Starts for TWAMP_67:

(Start: 2 @44874 has 36 MA's), (4, 44778), (6, 44745), (7, 44724), (8, 44658), (9, 44634),

Gene: Takoda_69 Start: 45200, Stop: 44859, Start Num: 2

Candidate Starts for Takoda_69:

(Start: 2 @45200 has 36 MA's), (4, 45104), (6, 45071), (7, 45050), (8, 44984), (9, 44960),

Gene: UhSalsa_67 Start: 44815, Stop: 44474, Start Num: 2

Candidate Starts for UhSalsa_67:

(Start: 2 @44815 has 36 MA's), (4, 44719), (6, 44686), (7, 44665), (8, 44599), (9, 44575),

Gene: Yogi_68 Start: 45225, Stop: 44884, Start Num: 2

Candidate Starts for Yogi_68:

(Start: 2 @45225 has 36 MA's), (4, 45129), (6, 45096), (7, 45075), (8, 45009), (9, 44985),

Gene: Yoncess_66 Start: 44633, Stop: 44292, Start Num: 2

Candidate Starts for Yoncess_66:

(Start: 2 @44633 has 36 MA's), (4, 44537), (6, 44504), (7, 44483), (8, 44417), (9, 44393),