



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 308928 Report

This analysis was run 06/27/26 on database version 652.

Pham number 308928 has 37 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Swann_61, Alpacados_60, Krishelle_61, Bonanza_62, Bryce_60, Phrankenstein_61, Naiad_60, Belenaria_62, Rhodalysa_61, RexFury_60, BobbyDazzler_61, Natosaleda_60, Rasputin_61, Lillie_61, Erik_61, Bradshaw_61, Espica_62, Yogi_62, Nancinator_60, RER2_55, Shuman_62, Alatin_60, UhSalsa_61, Hiro_61, TWAMP_61, CosmicSans_61, StCroix_60, Harlequin_61, Jester_60, AppleCloud_58, Yoncess_60
- Track 2 : PhailMary_58
- Track 3 : Dinger_60, AngryOrchard_58, Partridge_60
- Track 4 : Gollum_61
- Track 5 : Takoda_61

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 36 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alatin_60, Alpacados_60, AngryOrchard_58, AppleCloud_58, Belenaria_62, BobbyDazzler_61, Bonanza_62, Bradshaw_61, Bryce_60, CosmicSans_61, Dinger_60, Erik_61, Espica_62, Gollum_61, Harlequin_61, Hiro_61, Jester_60, Krishelle_61, Lillie_61, Naiad_60, Nancinator_60, Natosaleda_60, Partridge_60, PhailMary_58, Phrankenstein_61, RER2_55, Rasputin_61, RexFury_60, Rhodalysa_61, Shuman_62, StCroix_60, Swann_61, TWAMP_61, Takoda_61, UhSalsa_61, Yogi_62, Yoncess_60,

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 2:

- Found in 37 of 37 (100.0%) of genes in pham
- Manual Annotations of this start: 36 of 36
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alatin_60 (CA), Alpacados_60 (CA), AngryOrchard_58 (CA), AppleCloud_58 (CA), Belenaria_62 (CA), BobbyDazzler_61 (CA), Bonanza_62 (CA), Bradshaw_61 (CA), Bryce_60 (CA), CosmicSans_61 (CA), Dinger_60 (CA), Erik_61 (CA), Espica_62 (CA), Gollum_61 (CA), Harlequin_61 (CA), Hiro_61 (CA), Jester_60 (CA), Krishelle_61 (CA), Lillie_61 (CA), Naiad_60 (CA), Nancinator_60 (CA), Natosaleda_60 (CA), Partridge_60 (CA), PhailMary_58 (CA), Phrankenstien_61 (CA), RER2_55 (CA), Rasputin_61 (CA), RexFury_60 (CA), Rhodalysa_61 (CA), Shuman_62 (CA), StCroix_60 (CA), Swann_61 (CA), TWAMP_61 (CA), Takoda_61 (CA), UhSalsa_61 (CA), Yogi_62 (CA), Yoncess_60 (CA),

Summary by clusters:

There is one cluster represented in this pham: CA

Info for manual annotations of cluster CA:

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

Gene Information:

Gene: Alatin_60 Start: 41899, Stop: 41642, Start Num: 2

Candidate Starts for Alatin_60:

(1, 41932), (Start: 2 @41899 has 36 MA's), (3, 41851), (4, 41845), (6, 41803), (7, 41794), (8, 41767), (9, 41764), (10, 41749), (12, 41686),

Gene: Alpacados_60 Start: 41722, Stop: 41465, Start Num: 2

Candidate Starts for Alpacados_60:

(1, 41755), (Start: 2 @41722 has 36 MA's), (3, 41674), (4, 41668), (6, 41626), (7, 41617), (8, 41590), (9, 41587), (10, 41572), (12, 41509),

Gene: AngryOrchard_58 Start: 41952, Stop: 41695, Start Num: 2

Candidate Starts for AngryOrchard_58:

(1, 41985), (Start: 2 @41952 has 36 MA's), (3, 41904), (4, 41898), (6, 41856), (7, 41847), (8, 41820), (9, 41817), (10, 41802), (11, 41784), (12, 41739),

Gene: AppleCloud_58 Start: 41616, Stop: 41359, Start Num: 2

Candidate Starts for AppleCloud_58:

(1, 41649), (Start: 2 @41616 has 36 MA's), (3, 41568), (4, 41562), (6, 41520), (7, 41511), (8, 41484), (9, 41481), (10, 41466), (12, 41403),

Gene: Belenaria_62 Start: 41764, Stop: 41507, Start Num: 2

Candidate Starts for Belenaria_62:

(1, 41797), (Start: 2 @41764 has 36 MA's), (3, 41716), (4, 41710), (6, 41668), (7, 41659), (8, 41632), (9, 41629), (10, 41614), (12, 41551),

Gene: BobbyDazzler_61 Start: 41870, Stop: 41613, Start Num: 2

Candidate Starts for BobbyDazzler_61:

(1, 41903), (Start: 2 @41870 has 36 MA's), (3, 41822), (4, 41816), (6, 41774), (7, 41765), (8, 41738), (9, 41735), (10, 41720), (12, 41657),

Gene: Bonanza_62 Start: 42174, Stop: 41917, Start Num: 2

Candidate Starts for Bonanza_62:

(1, 42207), (Start: 2 @42174 has 36 MA's), (3, 42126), (4, 42120), (6, 42078), (7, 42069), (8, 42042), (9, 42039), (10, 42024), (12, 41961),

Gene: Bradshaw_61 Start: 41832, Stop: 41575, Start Num: 2

Candidate Starts for Bradshaw_61:

(1, 41865), (Start: 2 @41832 has 36 MA's), (3, 41784), (4, 41778), (6, 41736), (7, 41727), (8, 41700), (9, 41697), (10, 41682), (12, 41619),

Gene: Bryce_60 Start: 41578, Stop: 41321, Start Num: 2

Candidate Starts for Bryce_60:

(1, 41611), (Start: 2 @41578 has 36 MA's), (3, 41530), (4, 41524), (6, 41482), (7, 41473), (8, 41446), (9, 41443), (10, 41428), (12, 41365),

Gene: CosmicSans_61 Start: 41823, Stop: 41566, Start Num: 2

Candidate Starts for CosmicSans_61:

(1, 41856), (Start: 2 @41823 has 36 MA's), (3, 41775), (4, 41769), (6, 41727), (7, 41718), (8, 41691), (9, 41688), (10, 41673), (12, 41610),

Gene: Dinger_60 Start: 41970, Stop: 41710, Start Num: 2

Candidate Starts for Dinger_60:

(1, 42003), (Start: 2 @41970 has 36 MA's), (3, 41919), (4, 41913), (6, 41871), (7, 41862), (8, 41835), (9, 41832), (10, 41817), (11, 41799), (12, 41754),

Gene: Erik_61 Start: 41654, Stop: 41397, Start Num: 2

Candidate Starts for Erik_61:

(1, 41687), (Start: 2 @41654 has 36 MA's), (3, 41606), (4, 41600), (6, 41558), (7, 41549), (8, 41522), (9, 41519), (10, 41504), (12, 41441),

Gene: Espica_62 Start: 41764, Stop: 41507, Start Num: 2

Candidate Starts for Espica_62:

(1, 41797), (Start: 2 @41764 has 36 MA's), (3, 41716), (4, 41710), (6, 41668), (7, 41659), (8, 41632), (9, 41629), (10, 41614), (12, 41551),

Gene: Gollum_61 Start: 41765, Stop: 41523, Start Num: 2

Candidate Starts for Gollum_61:

(1, 41798), (Start: 2 @41765 has 36 MA's), (3, 41717), (4, 41711), (5, 41675), (6, 41669), (7, 41660), (8, 41633), (9, 41630), (10, 41615), (12, 41552),

Gene: Harlequin_61 Start: 41613, Stop: 41356, Start Num: 2

Candidate Starts for Harlequin_61:

(1, 41646), (Start: 2 @41613 has 36 MA's), (3, 41565), (4, 41559), (6, 41517), (7, 41508), (8, 41481), (9, 41478), (10, 41463), (12, 41400),

Gene: Hiro_61 Start: 42084, Stop: 41827, Start Num: 2

Candidate Starts for Hiro_61:

(1, 42117), (Start: 2 @42084 has 36 MA's), (3, 42036), (4, 42030), (6, 41988), (7, 41979), (8, 41952), (9, 41949), (10, 41934), (12, 41871),

Gene: Jester_60 Start: 41544, Stop: 41287, Start Num: 2

Candidate Starts for Jester_60:

(1, 41577), (Start: 2 @41544 has 36 MA's), (3, 41496), (4, 41490), (6, 41448), (7, 41439), (8, 41412), (9, 41409), (10, 41394), (12, 41331),

Gene: Krishelle_61 Start: 42192, Stop: 41935, Start Num: 2

Candidate Starts for Krishelle_61:

(1, 42225), (Start: 2 @42192 has 36 MA's), (3, 42144), (4, 42138), (6, 42096), (7, 42087), (8, 42060), (9, 42057), (10, 42042), (12, 41979),

Gene: Lillie_61 Start: 41823, Stop: 41566, Start Num: 2

Candidate Starts for Lillie_61:

(1, 41856), (Start: 2 @41823 has 36 MA's), (3, 41775), (4, 41769), (6, 41727), (7, 41718), (8, 41691), (9, 41688), (10, 41673), (12, 41610),

Gene: Naiad_60 Start: 41845, Stop: 41588, Start Num: 2

Candidate Starts for Naiad_60:

(1, 41878), (Start: 2 @41845 has 36 MA's), (3, 41797), (4, 41791), (6, 41749), (7, 41740), (8, 41713), (9, 41710), (10, 41695), (12, 41632),

Gene: Nancinator_60 Start: 41162, Stop: 40905, Start Num: 2

Candidate Starts for Nancinator_60:

(1, 41195), (Start: 2 @41162 has 36 MA's), (3, 41114), (4, 41108), (6, 41066), (7, 41057), (8, 41030), (9, 41027), (10, 41012), (12, 40949),

Gene: Natosaleda_60 Start: 41763, Stop: 41506, Start Num: 2

Candidate Starts for Natosaleda_60:

(1, 41796), (Start: 2 @41763 has 36 MA's), (3, 41715), (4, 41709), (6, 41667), (7, 41658), (8, 41631), (9, 41628), (10, 41613), (12, 41550),

Gene: Partridge_60 Start: 42124, Stop: 41867, Start Num: 2

Candidate Starts for Partridge_60:

(1, 42157), (Start: 2 @42124 has 36 MA's), (3, 42076), (4, 42070), (6, 42028), (7, 42019), (8, 41992), (9, 41989), (10, 41974), (11, 41956), (12, 41911),

Gene: PhailMary_58 Start: 40840, Stop: 40646, Start Num: 2

Candidate Starts for PhailMary_58:

(1, 40873), (Start: 2 @40840 has 36 MA's), (3, 40792), (4, 40786), (6, 40744), (7, 40735), (8, 40708), (9, 40705), (10, 40690),

Gene: Phrankenstein_61 Start: 41769, Stop: 41512, Start Num: 2

Candidate Starts for Phrankenstein_61:

(1, 41802), (Start: 2 @41769 has 36 MA's), (3, 41721), (4, 41715), (6, 41673), (7, 41664), (8, 41637), (9, 41634), (10, 41619), (12, 41556),

Gene: RER2_55 Start: 38695, Stop: 38438, Start Num: 2

Candidate Starts for RER2_55:

(1, 38728), (Start: 2 @38695 has 36 MA's), (3, 38647), (4, 38641), (6, 38599), (7, 38590), (8, 38563), (9, 38560), (10, 38545), (12, 38482),

Gene: Rasputin_61 Start: 41793, Stop: 41536, Start Num: 2

Candidate Starts for Rasputin_61:

(1, 41826), (Start: 2 @41793 has 36 MA's), (3, 41745), (4, 41739), (6, 41697), (7, 41688), (8, 41661), (9, 41658), (10, 41643), (12, 41580),

Gene: RexFury_60 Start: 41853, Stop: 41596, Start Num: 2

Candidate Starts for RexFury_60:

(1, 41886), (Start: 2 @41853 has 36 MA's), (3, 41805), (4, 41799), (6, 41757), (7, 41748), (8, 41721), (9, 41718), (10, 41703), (12, 41640),

Gene: Rhodalysa_61 Start: 41823, Stop: 41566, Start Num: 2

Candidate Starts for Rhodalysa_61:

(1, 41856), (Start: 2 @41823 has 36 MA's), (3, 41775), (4, 41769), (6, 41727), (7, 41718), (8, 41691), (9, 41688), (10, 41673), (12, 41610),

Gene: Shuman_62 Start: 41774, Stop: 41517, Start Num: 2

Candidate Starts for Shuman_62:

(1, 41807), (Start: 2 @41774 has 36 MA's), (3, 41726), (4, 41720), (6, 41678), (7, 41669), (8, 41642), (9, 41639), (10, 41624), (12, 41561),

Gene: StCroix_60 Start: 41845, Stop: 41588, Start Num: 2

Candidate Starts for StCroix_60:

(1, 41878), (Start: 2 @41845 has 36 MA's), (3, 41797), (4, 41791), (6, 41749), (7, 41740), (8, 41713), (9, 41710), (10, 41695), (12, 41632),

Gene: Swann_61 Start: 41821, Stop: 41564, Start Num: 2

Candidate Starts for Swann_61:

(1, 41854), (Start: 2 @41821 has 36 MA's), (3, 41773), (4, 41767), (6, 41725), (7, 41716), (8, 41689), (9, 41686), (10, 41671), (12, 41608),

Gene: TWAMP_61 Start: 41823, Stop: 41566, Start Num: 2

Candidate Starts for TWAMP_61:

(1, 41856), (Start: 2 @41823 has 36 MA's), (3, 41775), (4, 41769), (6, 41727), (7, 41718), (8, 41691), (9, 41688), (10, 41673), (12, 41610),

Gene: Takoda_61 Start: 42006, Stop: 41749, Start Num: 2

Candidate Starts for Takoda_61:

(1, 42039), (Start: 2 @42006 has 36 MA's), (3, 41958), (4, 41952), (6, 41910), (7, 41901), (8, 41874), (9, 41871), (10, 41856), (11, 41838), (12, 41793), (13, 41769),

Gene: UhSalsa_61 Start: 41764, Stop: 41507, Start Num: 2

Candidate Starts for UhSalsa_61:

(1, 41797), (Start: 2 @41764 has 36 MA's), (3, 41716), (4, 41710), (6, 41668), (7, 41659), (8, 41632), (9, 41629), (10, 41614), (12, 41551),

Gene: Yogi_62 Start: 42174, Stop: 41917, Start Num: 2

Candidate Starts for Yogi_62:

(1, 42207), (Start: 2 @42174 has 36 MA's), (3, 42126), (4, 42120), (6, 42078), (7, 42069), (8, 42042), (9, 42039), (10, 42024), (12, 41961),

Gene: Yoncess_60 Start: 41581, Stop: 41321, Start Num: 2

Candidate Starts for Yoncess_60:

(1, 41614), (Start: 2 @41581 has 36 MA's), (3, 41530), (4, 41524), (6, 41482), (7, 41473), (8, 41446), (9, 41443), (10, 41428), (12, 41365),