



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 305162 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305162 has 37 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Hiro\_62
- Track 2 : Swann\_62, Krishelle\_62, Espica\_63, Phrankenstein\_62, Lillie\_62, Bryce\_61, Nancinator\_61, Rhodalysa\_62, Natosaleda\_61, Rasputin\_62, BobbyDazzler\_62, RexFury\_61, Naiad\_61, Shuman\_63, Gollum\_62, Erik\_62, Bradshaw\_62, Alatin\_61, RER2\_56, UhSalsa\_62, Belenaria\_63, CosmicSans\_62, TWAMP\_62, Yoncess\_61, Harlequin\_62, AppleCloud\_59, Jester\_61, StCroix\_61
- Track 3 : PhailMary\_59
- Track 4 : Yogi\_63, Bonanza\_63, Alpacados\_61
- Track 5 : Partridge\_61, Dinger\_61, AngryOrchard\_59, Takoda\_62

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

The start number called the most often in the published annotations is 5, it was called in 35 of the 36 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alatin\_61, Alpacados\_61, AngryOrchard\_59, AppleCloud\_59, Belenaria\_63, BobbyDazzler\_62, Bonanza\_63, Bradshaw\_62, Bryce\_61, CosmicSans\_62, Dinger\_61, Erik\_62, Espica\_63, Gollum\_62, Harlequin\_62, Jester\_61, Krishelle\_62, Lillie\_62, Naiad\_61, Nancinator\_61, Natosaleda\_61, Partridge\_61, PhailMary\_59, Phrankenstein\_62, RER2\_56, Rasputin\_62, RexFury\_61, Rhodalysa\_62, Shuman\_63, StCroix\_61, Swann\_62, TWAMP\_62, Takoda\_62, UhSalsa\_62, Yogi\_63, Yoncess\_61,

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

- Hiro\_62,

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

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

Start 4:

- Found in 37 of 37 ( 100.0% ) of genes in pham

- Manual Annotations of this start: 1 of 36
- Called 2.7% of time when present
- Phage (with cluster) where this start called: Hiro\_62 (CA),

Start 5:

- Found in 37 of 37 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 35 of 36
- Called 97.3% of time when present
- Phage (with cluster) where this start called: Alatin\_61 (CA), Alpacados\_61 (CA), AngryOrchard\_59 (CA), AppleCloud\_59 (CA), Belenaria\_63 (CA), BobbyDazzler\_62 (CA), Bonanza\_63 (CA), Bradshaw\_62 (CA), Bryce\_61 (CA), CosmicSans\_62 (CA), Dinger\_61 (CA), Erik\_62 (CA), Espica\_63 (CA), Gollum\_62 (CA), Harlequin\_62 (CA), Jester\_61 (CA), Krishelle\_62 (CA), Lillie\_62 (CA), Naiad\_61 (CA), Nancinator\_61 (CA), Natosaleda\_61 (CA), Partridge\_61 (CA), PhailMary\_59 (CA), Phrankenstein\_62 (CA), RER2\_56 (CA), Rasputin\_62 (CA), RexFury\_61 (CA), Rhodalysa\_62 (CA), Shuman\_63 (CA), StCroix\_61 (CA), Swann\_62 (CA), TWAMP\_62 (CA), Takoda\_62 (CA), UhSalsa\_62 (CA), Yogi\_63 (CA), Yoncess\_61 (CA),

### Summary by clusters:

There is one cluster represented in this pham: CA

Info for manual annotations of cluster CA:

- Start number 4 was manually annotated 1 time for cluster CA.
- Start number 5 was manually annotated 35 times for cluster CA.

### Gene Information:

Gene: Alatin\_61 Start: 42128, Stop: 41901, Start Num: 5

Candidate Starts for Alatin\_61:

(3, 42161), (Start: 4 @42131 has 1 MA's), (Start: 5 @42128 has 35 MA's), (6, 42077),

Gene: Alpacados\_61 Start: 41951, Stop: 41724, Start Num: 5

Candidate Starts for Alpacados\_61:

(2, 41999), (3, 41984), (Start: 4 @41954 has 1 MA's), (Start: 5 @41951 has 35 MA's), (6, 41900),

Gene: AngryOrchard\_59 Start: 42181, Stop: 41954, Start Num: 5

Candidate Starts for AngryOrchard\_59:

(1, 42238), (Start: 4 @42184 has 1 MA's), (Start: 5 @42181 has 35 MA's),

Gene: AppleCloud\_59 Start: 41845, Stop: 41618, Start Num: 5

Candidate Starts for AppleCloud\_59:

(3, 41878), (Start: 4 @41848 has 1 MA's), (Start: 5 @41845 has 35 MA's), (6, 41794),

Gene: Belenaria\_63 Start: 41993, Stop: 41766, Start Num: 5

Candidate Starts for Belenaria\_63:

(3, 42026), (Start: 4 @41996 has 1 MA's), (Start: 5 @41993 has 35 MA's), (6, 41942),

Gene: BobbyDazzler\_62 Start: 42099, Stop: 41872, Start Num: 5

Candidate Starts for BobbyDazzler\_62:

(3, 42132), (Start: 4 @42102 has 1 MA's), (Start: 5 @42099 has 35 MA's), (6, 42048),

Gene: Bonanza\_63 Start: 42403, Stop: 42176, Start Num: 5  
Candidate Starts for Bonanza\_63:  
(2, 42451), (3, 42436), (Start: 4 @42406 has 1 MA's), (Start: 5 @42403 has 35 MA's), (6, 42352),

Gene: Bradshaw\_62 Start: 42061, Stop: 41834, Start Num: 5  
Candidate Starts for Bradshaw\_62:  
(3, 42094), (Start: 4 @42064 has 1 MA's), (Start: 5 @42061 has 35 MA's), (6, 42010),

Gene: Bryce\_61 Start: 41807, Stop: 41580, Start Num: 5  
Candidate Starts for Bryce\_61:  
(3, 41840), (Start: 4 @41810 has 1 MA's), (Start: 5 @41807 has 35 MA's), (6, 41756),

Gene: CosmicSans\_62 Start: 42052, Stop: 41825, Start Num: 5  
Candidate Starts for CosmicSans\_62:  
(3, 42085), (Start: 4 @42055 has 1 MA's), (Start: 5 @42052 has 35 MA's), (6, 42001),

Gene: Dinger\_61 Start: 42199, Stop: 41972, Start Num: 5  
Candidate Starts for Dinger\_61:  
(1, 42256), (Start: 4 @42202 has 1 MA's), (Start: 5 @42199 has 35 MA's),

Gene: Erik\_62 Start: 41883, Stop: 41656, Start Num: 5  
Candidate Starts for Erik\_62:  
(3, 41916), (Start: 4 @41886 has 1 MA's), (Start: 5 @41883 has 35 MA's), (6, 41832),

Gene: Espica\_63 Start: 41993, Stop: 41766, Start Num: 5  
Candidate Starts for Espica\_63:  
(3, 42026), (Start: 4 @41996 has 1 MA's), (Start: 5 @41993 has 35 MA's), (6, 41942),

Gene: Gollum\_62 Start: 41994, Stop: 41767, Start Num: 5  
Candidate Starts for Gollum\_62:  
(3, 42027), (Start: 4 @41997 has 1 MA's), (Start: 5 @41994 has 35 MA's), (6, 41943),

Gene: Harlequin\_62 Start: 41842, Stop: 41615, Start Num: 5  
Candidate Starts for Harlequin\_62:  
(3, 41875), (Start: 4 @41845 has 1 MA's), (Start: 5 @41842 has 35 MA's), (6, 41791),

Gene: Hiro\_62 Start: 42316, Stop: 42086, Start Num: 4  
Candidate Starts for Hiro\_62:  
(3, 42346), (Start: 4 @42316 has 1 MA's), (Start: 5 @42313 has 35 MA's), (6, 42262),

Gene: Jester\_61 Start: 41773, Stop: 41546, Start Num: 5  
Candidate Starts for Jester\_61:  
(3, 41806), (Start: 4 @41776 has 1 MA's), (Start: 5 @41773 has 35 MA's), (6, 41722),

Gene: Krishelle\_62 Start: 42421, Stop: 42194, Start Num: 5  
Candidate Starts for Krishelle\_62:  
(3, 42454), (Start: 4 @42424 has 1 MA's), (Start: 5 @42421 has 35 MA's), (6, 42370),

Gene: Lillie\_62 Start: 42052, Stop: 41825, Start Num: 5  
Candidate Starts for Lillie\_62:  
(3, 42085), (Start: 4 @42055 has 1 MA's), (Start: 5 @42052 has 35 MA's), (6, 42001),

Gene: Naiad\_61 Start: 42074, Stop: 41847, Start Num: 5  
Candidate Starts for Naiad\_61:  
(3, 42107), (Start: 4 @42077 has 1 MA's), (Start: 5 @42074 has 35 MA's), (6, 42023),

Gene: Nancinator\_61 Start: 41391, Stop: 41164, Start Num: 5  
Candidate Starts for Nancinator\_61:  
(3, 41424), (Start: 4 @41394 has 1 MA's), (Start: 5 @41391 has 35 MA's), (6, 41340),

Gene: Natosaleda\_61 Start: 41992, Stop: 41765, Start Num: 5  
Candidate Starts for Natosaleda\_61:  
(3, 42025), (Start: 4 @41995 has 1 MA's), (Start: 5 @41992 has 35 MA's), (6, 41941),

Gene: Partridge\_61 Start: 42353, Stop: 42126, Start Num: 5  
Candidate Starts for Partridge\_61:  
(1, 42410), (Start: 4 @42356 has 1 MA's), (Start: 5 @42353 has 35 MA's),

Gene: PhailMary\_59 Start: 41069, Stop: 40842, Start Num: 5  
Candidate Starts for PhailMary\_59:  
(3, 41102), (Start: 4 @41072 has 1 MA's), (Start: 5 @41069 has 35 MA's),

Gene: Phrankenstein\_62 Start: 41998, Stop: 41771, Start Num: 5  
Candidate Starts for Phrankenstein\_62:  
(3, 42031), (Start: 4 @42001 has 1 MA's), (Start: 5 @41998 has 35 MA's), (6, 41947),

Gene: RER2\_56 Start: 38924, Stop: 38697, Start Num: 5  
Candidate Starts for RER2\_56:  
(3, 38957), (Start: 4 @38927 has 1 MA's), (Start: 5 @38924 has 35 MA's), (6, 38873),

Gene: Rasputin\_62 Start: 42022, Stop: 41795, Start Num: 5  
Candidate Starts for Rasputin\_62:  
(3, 42055), (Start: 4 @42025 has 1 MA's), (Start: 5 @42022 has 35 MA's), (6, 41971),

Gene: RexFury\_61 Start: 42082, Stop: 41855, Start Num: 5  
Candidate Starts for RexFury\_61:  
(3, 42115), (Start: 4 @42085 has 1 MA's), (Start: 5 @42082 has 35 MA's), (6, 42031),

Gene: Rhodalysa\_62 Start: 42052, Stop: 41825, Start Num: 5  
Candidate Starts for Rhodalysa\_62:  
(3, 42085), (Start: 4 @42055 has 1 MA's), (Start: 5 @42052 has 35 MA's), (6, 42001),

Gene: Shuman\_63 Start: 42003, Stop: 41776, Start Num: 5  
Candidate Starts for Shuman\_63:  
(3, 42036), (Start: 4 @42006 has 1 MA's), (Start: 5 @42003 has 35 MA's), (6, 41952),

Gene: StCroix\_61 Start: 42074, Stop: 41847, Start Num: 5  
Candidate Starts for StCroix\_61:  
(3, 42107), (Start: 4 @42077 has 1 MA's), (Start: 5 @42074 has 35 MA's), (6, 42023),

Gene: Swann\_62 Start: 42050, Stop: 41823, Start Num: 5  
Candidate Starts for Swann\_62:  
(3, 42083), (Start: 4 @42053 has 1 MA's), (Start: 5 @42050 has 35 MA's), (6, 41999),

Gene: TWAMP\_62 Start: 42052, Stop: 41825, Start Num: 5

Candidate Starts for TWAMP\_62:

(3, 42085), (Start: 4 @42055 has 1 MA's), (Start: 5 @42052 has 35 MA's), (6, 42001),

Gene: Takoda\_62 Start: 42235, Stop: 42008, Start Num: 5

Candidate Starts for Takoda\_62:

(1, 42292), (Start: 4 @42238 has 1 MA's), (Start: 5 @42235 has 35 MA's),

Gene: UhSalsa\_62 Start: 41993, Stop: 41766, Start Num: 5

Candidate Starts for UhSalsa\_62:

(3, 42026), (Start: 4 @41996 has 1 MA's), (Start: 5 @41993 has 35 MA's), (6, 41942),

Gene: Yogi\_63 Start: 42403, Stop: 42176, Start Num: 5

Candidate Starts for Yogi\_63:

(2, 42451), (3, 42436), (Start: 4 @42406 has 1 MA's), (Start: 5 @42403 has 35 MA's), (6, 42352),

Gene: Yoncess\_61 Start: 41810, Stop: 41583, Start Num: 5

Candidate Starts for Yoncess\_61:

(3, 41843), (Start: 4 @41813 has 1 MA's), (Start: 5 @41810 has 35 MA's), (6, 41759),