



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 294966 Report

This analysis was run 04/18/26 on database version 643.

Pham number 294966 has 31 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Dori\_80, Mao1\_82
- Track 2 : Mask\_83, JohnLord\_83
- Track 3 : SFuller\_92
- Track 4 : Ogotogo\_43, OlympiaSaint\_40, IbOuu\_42, Sandalphon\_44, Blexus\_40, Scottish\_41, Daenerys\_39, Sassafras\_41, Polka14\_41, Empress\_41, OwlsT2W\_40, Leozinho\_42, Veteran\_40, Royals2015\_42, Dante\_40, Tchotchke\_42, JoeyJr\_40, GUmbe\_40, Eish\_41, Tootsieroll\_44, Radiance\_41, Pollywog\_41, Spoonbill\_40, Inventum\_39, Chuckly\_41, Job42\_43

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

The start number called the most often in the published annotations is 4, it was called in 26 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Blexus\_40, Chuckly\_41, Daenerys\_39, Dante\_40, Eish\_41, Empress\_41, GUmbe\_40, IbOuu\_42, Inventum\_39, Job42\_43, JoeyJr\_40, JohnLord\_83, Leozinho\_42, Mask\_83, Ogotogo\_43, OlympiaSaint\_40, OwlsT2W\_40, Polka14\_41, Pollywog\_41, Radiance\_41, Royals2015\_42, SFuller\_92, Sandalphon\_44, Sassafras\_41, Scottish\_41, Spoonbill\_40, Tchotchke\_42, Tootsieroll\_44, Veteran\_40,

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

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

- Dori\_80, Mao1\_82,

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

Start 3:

- Found in 2 of 31 ( 6.5% ) of genes in pham
- Manual Annotations of this start: 2 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dori\_80 (AD), Mao1\_82 (AD),

Start 4:

- Found in 29 of 31 ( 93.5% ) of genes in pham
- Manual Annotations of this start: 26 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Blexus\_40 (F1), Chuckly\_41 (F1), Daenerys\_39 (F1), Dante\_40 (F1), Eish\_41 (F1), Empress\_41 (F1), GUmble\_40 (F1), IbOuu\_42 (F1), Inventum\_39 (F1), Job42\_43 (F1), JoeyJr\_40 (F1), JohnLord\_83 (AD), Leozinho\_42 (F1), Mask\_83 (AD), Oogopogo\_43 (F1), OlympiaSaint\_40 (F1), OwlsT2W\_40 (F1), Polka14\_41 (F1), Pollywog\_41 (F1), Radiance\_41 (F1), Royals2015\_42 (F1), SFuller\_92 (CF), Sandalphon\_44 (F1), Sassafras\_41 (F1), Scottish\_41 (F1), Spoonbill\_40 (F1), Tchotchke\_42 (F1), Tootsieroll\_44 (F1), Veteran\_40 (F1),

**Summary by clusters:**

There are 3 clusters represented in this pham: F1, AD, CF,

Info for manual annotations of cluster AD:

- Start number 3 was manually annotated 2 times for cluster AD.
- Start number 4 was manually annotated 1 time for cluster AD.

Info for manual annotations of cluster F1:

- Start number 4 was manually annotated 25 times for cluster F1.

**Gene Information:**

Gene: Blexus\_40 Start: 31585, Stop: 31391, Start Num: 4

Candidate Starts for Blexus\_40:

(Start: 4 @31585 has 26 MA's), (7, 31498), (8, 31438), (11, 31417),

Gene: Chuckly\_41 Start: 31551, Stop: 31357, Start Num: 4

Candidate Starts for Chuckly\_41:

(Start: 4 @31551 has 26 MA's), (7, 31464), (8, 31404), (11, 31383),

Gene: Daenerys\_39 Start: 31164, Stop: 30970, Start Num: 4

Candidate Starts for Daenerys\_39:

(Start: 4 @31164 has 26 MA's), (7, 31077), (8, 31017), (11, 30996),

Gene: Dante\_40 Start: 31281, Stop: 31087, Start Num: 4

Candidate Starts for Dante\_40:

(Start: 4 @31281 has 26 MA's), (7, 31194), (8, 31134), (11, 31113),

Gene: Dori\_80 Start: 57490, Stop: 57729, Start Num: 3

Candidate Starts for Dori\_80:

(Start: 3 @57490 has 2 MA's), (5, 57523), (10, 57673),

Gene: Eish\_41 Start: 31869, Stop: 31675, Start Num: 4

Candidate Starts for Eish\_41:

(Start: 4 @31869 has 26 MA's), (7, 31782), (8, 31722), (11, 31701),

Gene: Empress\_41 Start: 32577, Stop: 32383, Start Num: 4  
Candidate Starts for Empress\_41:  
(Start: 4 @32577 has 26 MA's), (7, 32490), (8, 32430), (11, 32409),

Gene: GUmbie\_40 Start: 31183, Stop: 30989, Start Num: 4  
Candidate Starts for GUmbie\_40:  
(Start: 4 @31183 has 26 MA's), (7, 31096), (8, 31036), (11, 31015),

Gene: lbOuu\_42 Start: 31738, Stop: 31544, Start Num: 4  
Candidate Starts for lbOuu\_42:  
(Start: 4 @31738 has 26 MA's), (7, 31651), (8, 31591), (11, 31570),

Gene: Inventum\_39 Start: 31844, Stop: 31650, Start Num: 4  
Candidate Starts for Inventum\_39:  
(Start: 4 @31844 has 26 MA's), (7, 31757), (8, 31697), (11, 31676),

Gene: Job42\_43 Start: 33160, Stop: 32966, Start Num: 4  
Candidate Starts for Job42\_43:  
(Start: 4 @33160 has 26 MA's), (7, 33073), (8, 33013), (11, 32992),

Gene: JoeyJr\_40 Start: 31332, Stop: 31138, Start Num: 4  
Candidate Starts for JoeyJr\_40:  
(Start: 4 @31332 has 26 MA's), (7, 31245), (8, 31185), (11, 31164),

Gene: JohnLord\_83 Start: 55802, Stop: 56005, Start Num: 4  
Candidate Starts for JohnLord\_83:  
(1, 55715), (Start: 4 @55802 has 26 MA's), (10, 55967),

Gene: Leozinho\_42 Start: 31585, Stop: 31391, Start Num: 4  
Candidate Starts for Leozinho\_42:  
(Start: 4 @31585 has 26 MA's), (7, 31498), (8, 31438), (11, 31417),

Gene: Mao1\_82 Start: 56379, Stop: 56618, Start Num: 3  
Candidate Starts for Mao1\_82:  
(Start: 3 @56379 has 2 MA's), (5, 56412), (10, 56562),

Gene: Mask\_83 Start: 58809, Stop: 59012, Start Num: 4  
Candidate Starts for Mask\_83:  
(1, 58722), (Start: 4 @58809 has 26 MA's), (10, 58974),

Gene: Ogopogo\_43 Start: 31095, Stop: 30901, Start Num: 4  
Candidate Starts for Ogopogo\_43:  
(Start: 4 @31095 has 26 MA's), (7, 31008), (8, 30948), (11, 30927),

Gene: OlympiaSaint\_40 Start: 31613, Stop: 31419, Start Num: 4  
Candidate Starts for OlympiaSaint\_40:  
(Start: 4 @31613 has 26 MA's), (7, 31526), (8, 31466), (11, 31445),

Gene: OwlsT2W\_40 Start: 31588, Stop: 31394, Start Num: 4  
Candidate Starts for OwlsT2W\_40:  
(Start: 4 @31588 has 26 MA's), (7, 31501), (8, 31441), (11, 31420),

Gene: Polka14\_41 Start: 31785, Stop: 31591, Start Num: 4  
Candidate Starts for Polka14\_41:  
(Start: 4 @31785 has 26 MA's), (7, 31698), (8, 31638), (11, 31617),

Gene: Pollywog\_41 Start: 31707, Stop: 31513, Start Num: 4  
Candidate Starts for Pollywog\_41:  
(Start: 4 @31707 has 26 MA's), (7, 31620), (8, 31560), (11, 31539),

Gene: Radiance\_41 Start: 31335, Stop: 31141, Start Num: 4  
Candidate Starts for Radiance\_41:  
(Start: 4 @31335 has 26 MA's), (7, 31248), (8, 31188), (11, 31167),

Gene: Royals2015\_42 Start: 31621, Stop: 31427, Start Num: 4  
Candidate Starts for Royals2015\_42:  
(Start: 4 @31621 has 26 MA's), (7, 31534), (8, 31474), (11, 31453),

Gene: SFuller\_92 Start: 52330, Stop: 52539, Start Num: 4  
Candidate Starts for SFuller\_92:  
(2, 52285), (Start: 4 @52330 has 26 MA's), (6, 52366), (9, 52486), (11, 52498), (12, 52528),

Gene: Sandalphon\_44 Start: 32523, Stop: 32329, Start Num: 4  
Candidate Starts for Sandalphon\_44:  
(Start: 4 @32523 has 26 MA's), (7, 32436), (8, 32376), (11, 32355),

Gene: Sassafras\_41 Start: 31844, Stop: 31650, Start Num: 4  
Candidate Starts for Sassafras\_41:  
(Start: 4 @31844 has 26 MA's), (7, 31757), (8, 31697), (11, 31676),

Gene: Scottish\_41 Start: 32465, Stop: 32271, Start Num: 4  
Candidate Starts for Scottish\_41:  
(Start: 4 @32465 has 26 MA's), (7, 32378), (8, 32318), (11, 32297),

Gene: Spoonbill\_40 Start: 31424, Stop: 31230, Start Num: 4  
Candidate Starts for Spoonbill\_40:  
(Start: 4 @31424 has 26 MA's), (7, 31337), (8, 31277), (11, 31256),

Gene: Tchotchke\_42 Start: 31300, Stop: 31106, Start Num: 4  
Candidate Starts for Tchotchke\_42:  
(Start: 4 @31300 has 26 MA's), (7, 31213), (8, 31153), (11, 31132),

Gene: Tootsieroll\_44 Start: 31573, Stop: 31379, Start Num: 4  
Candidate Starts for Tootsieroll\_44:  
(Start: 4 @31573 has 26 MA's), (7, 31486), (8, 31426), (11, 31405),

Gene: Veteran\_40 Start: 31183, Stop: 30989, Start Num: 4  
Candidate Starts for Veteran\_40:  
(Start: 4 @31183 has 26 MA's), (7, 31096), (8, 31036), (11, 31015),