



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 303586 Report

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

Pham number 303586 has 30 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Adolin\_33, PandaPo\_33, MissSwiss\_33, DrManhattan\_33
- Track 2 : Berrie\_35
- Track 3 : KeAlii\_34
- Track 4 : Community\_36, Tuck\_37
- Track 5 : Janeemi\_37, Phives\_37
- Track 6 : Reedo\_33
- Track 7 : VResidence\_34
- Track 8 : Halsey\_34, Stuu\_34, Ashes\_34, Giorgio\_34, RockScotty\_34, Gumpizza\_34, Mysterium\_34, SpecialK\_34, Beaupre\_34, Moss\_34
- Track 9 : Kalimba\_34, Cappuccino\_34, Gambol\_35, Donkey\_34, Sooty\_34, Sabourin\_34
- Track 10 : Lifes\_55, LeeroyJenkins\_62

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

The start number called the most often in the published annotations is 11, it was called in 16 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ashes\_34, Beaupre\_34, Cappuccino\_34, Donkey\_34, Gambol\_35, Giorgio\_34, Gumpizza\_34, Halsey\_34, Kalimba\_34, Moss\_34, Mysterium\_34, RockScotty\_34, Sabourin\_34, Sooty\_34, SpecialK\_34, Stuu\_34,

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:

- Adolin\_33, Berrie\_35, Community\_36, DrManhattan\_33, Janeemi\_37, KeAlii\_34, LeeroyJenkins\_62, Lifes\_55, MissSwiss\_33, PandaPo\_33, Phives\_37, Reedo\_33, Tuck\_37, VResidence\_34,

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

Start 6:

- Found in 3 of 30 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 3 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: KeAlii\_34 (AZ1), Reedo\_33 (AZ1), VResidence\_34 (AZ1),

#### Start 7:

- Found in 5 of 30 ( 16.7% ) of genes in pham
- Manual Annotations of this start: 4 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Berrie\_35 (AZ1), Community\_36 (AZ1), Janeemi\_37 (AZ1), Phives\_37 (AZ1), Tuck\_37 (AZ1),

#### Start 8:

- Found in 4 of 30 ( 13.3% ) of genes in pham
- Manual Annotations of this start: 3 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adolin\_33 (AZ1), DrManhattan\_33 (AZ1), MissSwiss\_33 (AZ1), PandaPo\_33 (AZ1),

#### Start 9:

- Found in 2 of 30 ( 6.7% ) 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: LeeroyJenkins\_62 (GB), Lifes\_55 (GB),

#### Start 11:

- Found in 16 of 30 ( 53.3% ) of genes in pham
- Manual Annotations of this start: 16 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ashes\_34 (AZ5), Beaupre\_34 (AZ5), Cappuccino\_34 (AZ5), Donkey\_34 (AZ5), Gambol\_35 (AZ5), Giorgio\_34 (AZ5), Gumpizza\_34 (AZ5), Halsey\_34 (AZ5), Kalimba\_34 (AZ5), Moss\_34 (AZ5), Mysterium\_34 (AZ5), RockScotty\_34 (AZ5), Sabourin\_34 (AZ5), Sooty\_34 (AZ5), SpecialK\_34 (AZ5), Stuu\_34 (AZ5),

### **Summary by clusters:**

There are 3 clusters represented in this pham: AZ1, AZ5, GB,

#### Info for manual annotations of cluster AZ1:

- Start number 6 was manually annotated 3 times for cluster AZ1.
- Start number 7 was manually annotated 4 times for cluster AZ1.
- Start number 8 was manually annotated 3 times for cluster AZ1.

#### Info for manual annotations of cluster AZ5:

- Start number 11 was manually annotated 16 times for cluster AZ5.

#### Info for manual annotations of cluster GB:

- Start number 9 was manually annotated 2 times for cluster GB.

**Gene Information:**

Gene: Adolin\_33 Start: 23342, Stop: 23542, Start Num: 8

Candidate Starts for Adolin\_33:

(Start: 8 @23342 has 3 MA's),

Gene: Ashes\_34 Start: 24012, Stop: 24215, Start Num: 11

Candidate Starts for Ashes\_34:

(Start: 11 @24012 has 16 MA's),

Gene: Beaupre\_34 Start: 24013, Stop: 24216, Start Num: 11

Candidate Starts for Beaupre\_34:

(Start: 11 @24013 has 16 MA's),

Gene: Berrie\_35 Start: 25939, Stop: 26160, Start Num: 7

Candidate Starts for Berrie\_35:

(4, 25882), (Start: 7 @25939 has 4 MA's), (12, 25993),

Gene: Cappuccino\_34 Start: 23879, Stop: 24082, Start Num: 11

Candidate Starts for Cappuccino\_34:

(Start: 11 @23879 has 16 MA's), (13, 23939),

Gene: Community\_36 Start: 27065, Stop: 27277, Start Num: 7

Candidate Starts for Community\_36:

(2, 26900), (3, 26960), (5, 27047), (Start: 7 @27065 has 4 MA's),

Gene: Donkey\_34 Start: 23869, Stop: 24072, Start Num: 11

Candidate Starts for Donkey\_34:

(Start: 11 @23869 has 16 MA's), (13, 23929),

Gene: DrManhattan\_33 Start: 23333, Stop: 23533, Start Num: 8

Candidate Starts for DrManhattan\_33:

(Start: 8 @23333 has 3 MA's),

Gene: Gambol\_35 Start: 23888, Stop: 24091, Start Num: 11

Candidate Starts for Gambol\_35:

(Start: 11 @23888 has 16 MA's), (13, 23948),

Gene: Giorgio\_34 Start: 23996, Stop: 24199, Start Num: 11

Candidate Starts for Giorgio\_34:

(Start: 11 @23996 has 16 MA's),

Gene: Gumpizza\_34 Start: 23952, Stop: 24155, Start Num: 11

Candidate Starts for Gumpizza\_34:

(Start: 11 @23952 has 16 MA's),

Gene: Halsey\_34 Start: 24017, Stop: 24220, Start Num: 11

Candidate Starts for Halsey\_34:

(Start: 11 @24017 has 16 MA's),

Gene: Janeemi\_37 Start: 27276, Stop: 27488, Start Num: 7

Candidate Starts for Janeemi\_37:

(Start: 7 @27276 has 4 MA's),

Gene: Kalimba\_34 Start: 23866, Stop: 24069, Start Num: 11  
Candidate Starts for Kalimba\_34:  
(Start: 11 @23866 has 16 MA's), (13, 23926),

Gene: KeAlii\_34 Start: 24987, Stop: 25208, Start Num: 6  
Candidate Starts for KeAlii\_34:  
(1, 24783), (4, 24927), (Start: 6 @24987 has 3 MA's),

Gene: LeeroyJenkins\_62 Start: 36291, Stop: 36064, Start Num: 9  
Candidate Starts for LeeroyJenkins\_62:  
(Start: 9 @36291 has 2 MA's),

Gene: Lifes\_55 Start: 32729, Stop: 32502, Start Num: 9  
Candidate Starts for Lifes\_55:  
(Start: 9 @32729 has 2 MA's),

Gene: MissSwiss\_33 Start: 23388, Stop: 23591, Start Num: 8  
Candidate Starts for MissSwiss\_33:  
(Start: 8 @23388 has 3 MA's),

Gene: Moss\_34 Start: 23958, Stop: 24161, Start Num: 11  
Candidate Starts for Moss\_34:  
(Start: 11 @23958 has 16 MA's),

Gene: Mysterium\_34 Start: 23978, Stop: 24181, Start Num: 11  
Candidate Starts for Mysterium\_34:  
(Start: 11 @23978 has 16 MA's),

Gene: PandaPo\_33 Start: 23391, Stop: 23594, Start Num: 8  
Candidate Starts for PandaPo\_33:  
(Start: 8 @23391 has 3 MA's),

Gene: Phives\_37 Start: 27093, Stop: 27305, Start Num: 7  
Candidate Starts for Phives\_37:  
(Start: 7 @27093 has 4 MA's),

Gene: Reedo\_33 Start: 23334, Stop: 23549, Start Num: 6  
Candidate Starts for Reedo\_33:  
(Start: 6 @23334 has 3 MA's),

Gene: RockScotty\_34 Start: 23976, Stop: 24179, Start Num: 11  
Candidate Starts for RockScotty\_34:  
(Start: 11 @23976 has 16 MA's),

Gene: Sabourin\_34 Start: 23866, Stop: 24069, Start Num: 11  
Candidate Starts for Sabourin\_34:  
(Start: 11 @23866 has 16 MA's), (13, 23926),

Gene: Sooty\_34 Start: 23881, Stop: 24084, Start Num: 11  
Candidate Starts for Sooty\_34:  
(Start: 11 @23881 has 16 MA's), (13, 23941),

Gene: SpecialK\_34 Start: 23866, Stop: 24069, Start Num: 11  
Candidate Starts for SpecialK\_34:  
(Start: 11 @23866 has 16 MA's),

Gene: Stuu\_34 Start: 23978, Stop: 24181, Start Num: 11  
Candidate Starts for Stuu\_34:  
(Start: 11 @23978 has 16 MA's),

Gene: Tuck\_37 Start: 27446, Stop: 27658, Start Num: 7  
Candidate Starts for Tuck\_37:  
(2, 27281), (3, 27341), (5, 27428), (Start: 7 @27446 has 4 MA's),

Gene: VResidence\_34 Start: 24928, Stop: 25152, Start Num: 6  
Candidate Starts for VResidence\_34:  
(Start: 6 @24928 has 3 MA's), (10, 24943),