

# Pham 305370



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 305370 Report

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

Pham number 305370 has 17 members, 1 are drafts.

Phages represented in each track:

- Track 1 : UmaThurman\_36
- Track 2 : MillySue\_42
- Track 3 : Gusanita\_40
- Track 4 : Zaheer\_43, Cole\_40, Schism\_45
- Track 5 : Guinevere\_43, Halloweekend\_38
- Track 6 : GoodLuckBabe\_43, QuinnAvery\_43
- Track 7 : Ichiang\_40
- Track 8 : IsHungry\_37
- Track 9 : Popper\_41
- Track 10 : Elesar\_37
- Track 11 : Kihatsu\_43
- Track 12 : Julie\_40
- Track 13 : AllBusiness\_39

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

The start number called the most often in the published annotations is 16, it was called in 6 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AllBusiness\_39, GoodLuckBabe\_43, Gusanita\_40, IsHungry\_37, Julie\_40, QuinnAvery\_43,

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

- Cole\_40, Elesar\_37, Guinevere\_43, Halloweekend\_38, Ichiang\_40, Kihatsu\_43, MillySue\_42, Popper\_41, Schism\_45, UmaThurman\_36, Zaheer\_43,

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

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

Start 10:

- Found in 4 of 17 ( 23.5% ) of genes in pham

- Manual Annotations of this start: 2 of 16
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Elesar\_37 (FF), Kihatsu\_43 (FF),

Start 15:

- Found in 4 of 17 ( 23.5% ) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Popper\_41 (FF),

Start 16:

- Found in 17 of 17 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 6 of 16
- Called 35.3% of time when present
- Phage (with cluster) where this start called: AllBusiness\_39 (FF), GoodLuckBabe\_43 (FF), Gusanita\_40 (FF), IsHungry\_37 (FF), Julie\_40 (FF), QuinnAvery\_43 (FF),

Start 21:

- Found in 10 of 17 ( 58.8% ) of genes in pham
- Manual Annotations of this start: 3 of 16
- Called 40.0% of time when present
- Phage (with cluster) where this start called: Guinevere\_43 (FF), Halloweekend\_38 (FF), Ichiang\_40 (FF), MillySue\_42 (FF),

Start 22:

- Found in 5 of 17 ( 29.4% ) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 20.0% of time when present
- Phage (with cluster) where this start called: UmaThurman\_36 (CV),

Start 25:

- Found in 10 of 17 ( 58.8% ) of genes in pham
- Manual Annotations of this start: 3 of 16
- Called 30.0% of time when present
- Phage (with cluster) where this start called: Cole\_40 (FF), Schism\_45 (FF), Zaheer\_43 (FF),

### **Summary by clusters:**

There are 2 clusters represented in this pham: CV, FF,

Info for manual annotations of cluster CV:

- Start number 22 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster FF:

- Start number 10 was manually annotated 2 times for cluster FF.
- Start number 15 was manually annotated 1 time for cluster FF.
- Start number 16 was manually annotated 6 times for cluster FF.
- Start number 21 was manually annotated 3 times for cluster FF.
- Start number 25 was manually annotated 3 times for cluster FF.

**Gene Information:**

Gene: AllBusiness\_39 Start: 31045, Stop: 30608, Start Num: 16

Candidate Starts for AllBusiness\_39:

(7, 31183), (Start: 10 @31135 has 2 MA's), (12, 31111), (13, 31099), (Start: 15 @31057 has 1 MA's), (Start: 16 @31045 has 6 MA's), (20, 30976), (Start: 22 @30961 has 1 MA's), (26, 30892), (35, 30811), (39, 30718), (43, 30625),

Gene: Cole\_40 Start: 29705, Stop: 29412, Start Num: 25

Candidate Starts for Cole\_40:

(9, 29933), (14, 29867), (Start: 16 @29831 has 6 MA's), (18, 29777), (Start: 21 @29747 has 3 MA's), (Start: 25 @29705 has 3 MA's), (31, 29624), (36, 29585), (39, 29516),

Gene: Elesar\_37 Start: 30914, Stop: 30393, Start Num: 10

Candidate Starts for Elesar\_37:

(Start: 10 @30914 has 2 MA's), (12, 30890), (13, 30878), (Start: 15 @30836 has 1 MA's), (Start: 16 @30824 has 6 MA's), (20, 30755), (Start: 22 @30740 has 1 MA's), (29, 30638), (35, 30590), (39, 30497),

Gene: GoodLuckBabe\_43 Start: 30465, Stop: 30046, Start Num: 16

Candidate Starts for GoodLuckBabe\_43:

(9, 30567), (14, 30501), (Start: 16 @30465 has 6 MA's), (18, 30411), (Start: 21 @30381 has 3 MA's), (Start: 25 @30339 has 3 MA's), (31, 30258), (36, 30219), (39, 30150),

Gene: Guinevere\_43 Start: 29972, Stop: 29637, Start Num: 21

Candidate Starts for Guinevere\_43:

(9, 30158), (14, 30092), (Start: 16 @30056 has 6 MA's), (18, 30002), (Start: 21 @29972 has 3 MA's), (Start: 25 @29930 has 3 MA's), (31, 29849), (36, 29810), (39, 29741),

Gene: Gusanita\_40 Start: 30510, Stop: 30103, Start Num: 16

Candidate Starts for Gusanita\_40:

(Start: 16 @30510 has 6 MA's), (17, 30495), (27, 30354), (37, 30270), (39, 30201),

Gene: Halloween\_38 Start: 29380, Stop: 29045, Start Num: 21

Candidate Starts for Halloween\_38:

(9, 29566), (14, 29500), (Start: 16 @29464 has 6 MA's), (18, 29410), (Start: 21 @29380 has 3 MA's), (Start: 25 @29338 has 3 MA's), (31, 29257), (36, 29218), (39, 29149),

Gene: Ichiang\_40 Start: 29399, Stop: 29064, Start Num: 21

Candidate Starts for Ichiang\_40:

(9, 29585), (14, 29519), (Start: 16 @29483 has 6 MA's), (18, 29429), (19, 29417), (Start: 21 @29399 has 3 MA's), (24, 29363), (Start: 25 @29357 has 3 MA's), (31, 29276), (36, 29237), (39, 29168),

Gene: IsHungry\_37 Start: 28697, Stop: 28293, Start Num: 16

Candidate Starts for IsHungry\_37:

(Start: 16 @28697 has 6 MA's), (17, 28682), (18, 28655), (27, 28541), (33, 28490), (39, 28388), (42, 28334),

Gene: Julie\_40 Start: 30481, Stop: 30059, Start Num: 16

Candidate Starts for Julie\_40:

(1, 30796), (2, 30769), (3, 30766), (4, 30757), (5, 30679), (6, 30676), (8, 30607), (9, 30583), (11, 30553), (14, 30517), (Start: 16 @30481 has 6 MA's), (Start: 21 @30397 has 3 MA's), (31, 30274), (34, 30253), (36, 30235), (39, 30169),

Gene: Kihatsu\_43 Start: 31043, Stop: 30516, Start Num: 10

Candidate Starts for Kihatsu\_43:

(Start: 10 @31043 has 2 MA's), (12, 31019), (13, 31007), (Start: 15 @30965 has 1 MA's), (Start: 16 @30953 has 6 MA's), (20, 30884), (Start: 22 @30869 has 1 MA's), (35, 30719), (39, 30626),

Gene: MillySue\_42 Start: 30226, Stop: 29900, Start Num: 21

Candidate Starts for MillySue\_42:

(9, 30412), (14, 30346), (Start: 16 @30310 has 6 MA's), (18, 30256), (Start: 21 @30226 has 3 MA's), (Start: 25 @30184 has 3 MA's), (31, 30103), (36, 30064), (39, 29995), (40, 29959), (41, 29941),

Gene: Popper\_41 Start: 29991, Stop: 29548, Start Num: 15

Candidate Starts for Popper\_41:

(Start: 10 @30069 has 2 MA's), (12, 30045), (13, 30033), (Start: 15 @29991 has 1 MA's), (Start: 16 @29979 has 6 MA's), (20, 29910), (Start: 22 @29895 has 1 MA's), (35, 29745), (39, 29652),

Gene: QuinnAvery\_43 Start: 30914, Stop: 30495, Start Num: 16

Candidate Starts for QuinnAvery\_43:

(9, 31016), (14, 30950), (Start: 16 @30914 has 6 MA's), (18, 30860), (Start: 21 @30830 has 3 MA's), (Start: 25 @30788 has 3 MA's), (31, 30707), (36, 30668), (39, 30599),

Gene: Schism\_45 Start: 30719, Stop: 30426, Start Num: 25

Candidate Starts for Schism\_45:

(9, 30947), (14, 30881), (Start: 16 @30845 has 6 MA's), (18, 30791), (Start: 21 @30761 has 3 MA's), (Start: 25 @30719 has 3 MA's), (31, 30638), (36, 30599), (39, 30530),

Gene: UmaThurman\_36 Start: 31566, Stop: 31237, Start Num: 22

Candidate Starts for UmaThurman\_36:

(Start: 16 @31641 has 6 MA's), (Start: 22 @31566 has 1 MA's), (23, 31560), (Start: 25 @31527 has 3 MA's), (28, 31482), (30, 31452), (31, 31446), (32, 31434), (33, 31428), (38, 31368),

Gene: Zaheer\_43 Start: 31154, Stop: 30861, Start Num: 25

Candidate Starts for Zaheer\_43:

(9, 31382), (14, 31316), (Start: 16 @31280 has 6 MA's), (18, 31226), (Start: 21 @31196 has 3 MA's), (Start: 25 @31154 has 3 MA's), (31, 31073), (36, 31034), (39, 30965),