

Pham 296590



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 296590 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296590 has 60 members, 5 are drafts.

Phages represented in each track:

- Track 1 : TingHuaYa\_1
- Track 2 : BoostSeason\_1, Doughnut\_1, Milly\_1, Strobilo\_1, DismalFunk\_1, Mufasa\_1, DismalStressor\_1, Findley\_1, Marcoliusprime\_1, ZoeJ\_1
- Track 3 : TM4\_1
- Track 4 : Hurricane\_1, Keshu\_1, Pixie\_1, ShedlockHolmes\_1, Lea83\_1, TBond007\_1
- Track 5 : MacnCheese\_1, TribbleTrouble\_1
- Track 6 : Pharb\_1
- Track 7 : Patt\_1, Kraw\_1, Fionnbharth\_1, MissDaisy\_1, Juliette\_1, Eponine\_1, Y10\_01, Lebo14\_1, Slarp\_1, Taquito\_1, Y2\_01, JF1\_1, OmniCritical\_1, Qhanda\_1, SamScheppers\_1, Malthus\_1, Bobquesha\_1, Reptar3000\_1, Cheetobro\_1, Ruthiejr\_1, DanSyl44\_1, Wintermute\_1, Chancellor\_1, Mitti\_1, YasnayaPolyana\_1
- Track 8 : Ellie\_1
- Track 9 : Applecrisp\_2
- Track 10 : Hammy\_1, Amohnition\_1, DARTH\_P\_1
- Track 11 : Fefferhead\_1, Amgine\_1, Lavahound\_1
- Track 12 : TClif\_1
- Track 13 : Ekdilam\_1, November\_1
- Track 14 : Yuna\_1
- Track 15 : Aminay\_1
- Track 16 : Boilgate\_1

### ***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 23 of the 55 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bobquesha\_1, Boilgate\_1, Chancellor\_1, Cheetobro\_1, DanSyl44\_1, Eponine\_1, Fionnbharth\_1, JF1\_1, Juliette\_1, Kraw\_1, Lebo14\_1, Malthus\_1, MissDaisy\_1, Mitti\_1, OmniCritical\_1, Patt\_1, Qhanda\_1, Reptar3000\_1, Ruthiejr\_1, SamScheppers\_1, Slarp\_1, Taquito\_1, Wintermute\_1, Y10\_01, Y2\_01, YasnayaPolyana\_1,

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:

- Amgine\_1, Aminay\_1, Amohnition\_1, Applecrisp\_2, BoostSeason\_1, DarthP\_1, DismalFunk\_1, DismalStressor\_1, Doughnut\_1, Ekdilam\_1, Ellie\_1, Fefferhead\_1, Findley\_1, Hammy\_1, Hurricane\_1, Keshu\_1, Lavahound\_1, Lea83\_1, MacnCheese\_1, Marcoliusprime\_1, Milly\_1, Mufasa\_1, November\_1, Pharb\_1, Pixie\_1, ShedlockHolmes\_1, Strobilo\_1, TBond007\_1, TClif\_1, TM4\_1, TingHuaYa\_1, TripleTrouble\_1, Yuna\_1, ZoeJ\_1,

### Summary by start number:

Start 6:

- Found in 3 of 60 ( 5.0% ) of genes in pham
- Manual Annotations of this start: 2 of 55
- Called 66.7% of time when present
- Phage (with cluster) where this start called: TClif\_1 (K6), Yuna\_1 (K6),

Start 7:

- Found in 1 of 60 ( 1.7% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: TingHuaYa\_1 (K1),

Start 9:

- Found in 1 of 60 ( 1.7% ) of genes in pham
- Manual Annotations of this start: 1 of 55
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aminay\_1 (K7),

Start 11:

- Found in 1 of 60 ( 1.7% ) of genes in pham
- Manual Annotations of this start: 1 of 55
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Applecrisp\_2 (K6),

Start 12:

- Found in 8 of 60 ( 13.3% ) of genes in pham
- Manual Annotations of this start: 8 of 55
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hurricane\_1 (K3), Keshu\_1 (K3), Lea83\_1 (K3), MacnCheese\_1 (K3), Pixie\_1 (K3), ShedlockHolmes\_1 (K3), TBond007\_1 (K3), TripleTrouble\_1 (K3),

Start 13:

- Found in 10 of 60 ( 16.7% ) of genes in pham
- Manual Annotations of this start: 9 of 55
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amgine\_1 (K6), Amohnition\_1 (K6), DarthP\_1 (K6), Ekdilam\_1 (K6), Ellie\_1 (K6), Fefferhead\_1 (K6), Hammy\_1 (K6), Lavahound\_1 (K6), November\_1 (K6), Pharb\_1 (K3),

Start 14:

- Found in 10 of 60 ( 16.7% ) of genes in pham
- Manual Annotations of this start: 10 of 55
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BoostSeason\_1 (K2), DismalFunk\_1 (K2), DismalStressor\_1 (K2), Doughnut\_1 (K2), Findley\_1 (K2), Marcoliusprime\_1 (K2), Milly\_1 (K2), Mufasa\_1 (K2), Strobilo\_1 (K2), ZoeJ\_1 (K2),

Start 15:

- Found in 1 of 60 ( 1.7% ) of genes in pham
- Manual Annotations of this start: 1 of 55
- Called 100.0% of time when present
- Phage (with cluster) where this start called: TM4\_1 (K2),

Start 16:

- Found in 26 of 60 ( 43.3% ) of genes in pham
- Manual Annotations of this start: 23 of 55
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bobquesha\_1 (K4), Boilgate\_1 (K8), Chancellor\_1 (K4), Cheetobro\_1 (K4), DanSyl44\_1 (K4), Eponine\_1 (K4), Fionnbharth\_1 (K4), JF1\_1 (K4), Juliette\_1 (K4), Kraw\_1 (K4), Lebo14\_1 (K4), Malthus\_1 (K4), MissDaisy\_1 (K4), Mitti\_1 (K4), OmniCritical\_1 (K4), Patt\_1 (K4), Qhanda\_1 (K4), Reptar3000\_1 (K4), Ruthiejr\_1 (K4), SamScheppers\_1 (K4), Slarp\_1 (K4), Taquito\_1 (K4), Wintermute\_1 (K4), Y10\_01 (K4), Y2\_01 (K4), YasnayaPolyana\_1 (K4),

**Summary by clusters:**

There are 7 clusters represented in this pham: K3, K2, K1, K7, K6, K4, K8,

Info for manual annotations of cluster K2:

- Start number 14 was manually annotated 10 times for cluster K2.
- Start number 15 was manually annotated 1 time for cluster K2.

Info for manual annotations of cluster K3:

- Start number 12 was manually annotated 8 times for cluster K3.
- Start number 13 was manually annotated 1 time for cluster K3.

Info for manual annotations of cluster K4:

- Start number 16 was manually annotated 22 times for cluster K4.

Info for manual annotations of cluster K6:

- Start number 6 was manually annotated 2 times for cluster K6.
- Start number 11 was manually annotated 1 time for cluster K6.
- Start number 13 was manually annotated 8 times for cluster K6.

Info for manual annotations of cluster K7:

- Start number 9 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster K8:

- Start number 16 was manually annotated 1 time for cluster K8.

**Gene Information:**

Gene: Amgine\_1 Start: 52, Stop: 195, Start Num: 13

Candidate Starts for Amgine\_1:

(Start: 13 @52 has 9 MA's), (21, 88), (22, 91),

Gene: Aminay\_1 Start: 67, Stop: 231, Start Num: 9

Candidate Starts for Aminay\_1:

(Start: 9 @67 has 1 MA's), (10, 70), (21, 127),

Gene: Amohnition\_1 Start: 70, Stop: 210, Start Num: 13

Candidate Starts for Amohnition\_1:

(Start: 13 @70 has 9 MA's), (25, 163), (26, 166),

Gene: Applecrisp\_2 Start: 376, Stop: 525, Start Num: 11

Candidate Starts for Applecrisp\_2:

(1, 235), (4, 304), (5, 343), (Start: 11 @376 has 1 MA's), (21, 418), (22, 421),

Gene: Bobquesha\_1 Start: 117, Stop: 254, Start Num: 16

Candidate Starts for Bobquesha\_1:

(Start: 16 @117 has 23 MA's), (20, 141), (21, 153),

Gene: Boilgate\_1 Start: 62, Stop: 202, Start Num: 16

Candidate Starts for Boilgate\_1:

(Start: 16 @62 has 23 MA's), (20, 83), (21, 95), (23, 110),

Gene: BoostSeason\_1 Start: 88, Stop: 222, Start Num: 14

Candidate Starts for BoostSeason\_1:

(Start: 14 @88 has 10 MA's), (19, 103), (24, 157), (25, 178), (26, 181),

Gene: Chancellor\_1 Start: 117, Stop: 254, Start Num: 16

Candidate Starts for Chancellor\_1:

(Start: 16 @117 has 23 MA's), (20, 141), (21, 153),

Gene: Cheetobro\_1 Start: 117, Stop: 254, Start Num: 16

Candidate Starts for Cheetobro\_1:

(Start: 16 @117 has 23 MA's), (20, 141), (21, 153),

Gene: DanSyl44\_1 Start: 117, Stop: 254, Start Num: 16

Candidate Starts for DanSyl44\_1:

(Start: 16 @117 has 23 MA's), (20, 141), (21, 153),

Gene: DarthP\_1 Start: 70, Stop: 210, Start Num: 13

Candidate Starts for DarthP\_1:

(Start: 13 @70 has 9 MA's), (25, 163), (26, 166),

Gene: DismalFunk\_1 Start: 88, Stop: 222, Start Num: 14

Candidate Starts for DismalFunk\_1:

(Start: 14 @88 has 10 MA's), (19, 103), (24, 157), (25, 178), (26, 181),

Gene: DismalStressor\_1 Start: 88, Stop: 222, Start Num: 14

Candidate Starts for DismalStressor\_1:  
(Start: 14 @88 has 10 MA's), (19, 103), (24, 157), (25, 178), (26, 181),

Gene: Doughnut\_1 Start: 88, Stop: 222, Start Num: 14  
Candidate Starts for Doughnut\_1:  
(Start: 14 @88 has 10 MA's), (19, 103), (24, 157), (25, 178), (26, 181),

Gene: Ekdilam\_1 Start: 69, Stop: 209, Start Num: 13  
Candidate Starts for Ekdilam\_1:  
(Start: 13 @69 has 9 MA's), (25, 162), (26, 165),

Gene: Ellie\_1 Start: 52, Stop: 195, Start Num: 13  
Candidate Starts for Ellie\_1:  
(Start: 13 @52 has 9 MA's), (22, 91),

Gene: Eponine\_1 Start: 117, Stop: 254, Start Num: 16  
Candidate Starts for Eponine\_1:  
(Start: 16 @117 has 23 MA's), (20, 141), (21, 153),

Gene: Fefferhead\_1 Start: 52, Stop: 195, Start Num: 13  
Candidate Starts for Fefferhead\_1:  
(Start: 13 @52 has 9 MA's), (21, 88), (22, 91),

Gene: Findley\_1 Start: 88, Stop: 222, Start Num: 14  
Candidate Starts for Findley\_1:  
(Start: 14 @88 has 10 MA's), (19, 103), (24, 157), (25, 178), (26, 181),

Gene: Fionnbharth\_1 Start: 117, Stop: 254, Start Num: 16  
Candidate Starts for Fionnbharth\_1:  
(Start: 16 @117 has 23 MA's), (20, 141), (21, 153),

Gene: Hammy\_1 Start: 70, Stop: 210, Start Num: 13  
Candidate Starts for Hammy\_1:  
(Start: 13 @70 has 9 MA's), (25, 163), (26, 166),

Gene: Hurricane\_1 Start: 51, Stop: 194, Start Num: 12  
Candidate Starts for Hurricane\_1:  
(Start: 12 @51 has 8 MA's), (18, 66), (21, 87),

Gene: JF1\_1 Start: 117, Stop: 254, Start Num: 16  
Candidate Starts for JF1\_1:  
(Start: 16 @117 has 23 MA's), (20, 141), (21, 153),

Gene: Juliette\_1 Start: 117, Stop: 254, Start Num: 16  
Candidate Starts for Juliette\_1:  
(Start: 16 @117 has 23 MA's), (20, 141), (21, 153),

Gene: Keshu\_1 Start: 51, Stop: 194, Start Num: 12  
Candidate Starts for Keshu\_1:  
(Start: 12 @51 has 8 MA's), (18, 66), (21, 87),

Gene: Kraw\_1 Start: 117, Stop: 254, Start Num: 16  
Candidate Starts for Kraw\_1:

(Start: 16 @117 has 23 MA's), (20, 141), (21, 153),

Gene: Lavahound\_1 Start: 52, Stop: 195, Start Num: 13

Candidate Starts for Lavahound\_1:

(Start: 13 @52 has 9 MA's), (21, 88), (22, 91),

Gene: Lea83\_1 Start: 51, Stop: 194, Start Num: 12

Candidate Starts for Lea83\_1:

(Start: 12 @51 has 8 MA's), (18, 66), (21, 87),

Gene: Lebo14\_1 Start: 117, Stop: 254, Start Num: 16

Candidate Starts for Lebo14\_1:

(Start: 16 @117 has 23 MA's), (20, 141), (21, 153),

Gene: MacnCheese\_1 Start: 51, Stop: 197, Start Num: 12

Candidate Starts for MacnCheese\_1:

(Start: 12 @51 has 8 MA's), (21, 90),

Gene: Malthus\_1 Start: 117, Stop: 254, Start Num: 16

Candidate Starts for Malthus\_1:

(Start: 16 @117 has 23 MA's), (20, 141), (21, 153),

Gene: Marcoliusprime\_1 Start: 88, Stop: 222, Start Num: 14

Candidate Starts for Marcoliusprime\_1:

(Start: 14 @88 has 10 MA's), (19, 103), (24, 157), (25, 178), (26, 181),

Gene: Milly\_1 Start: 88, Stop: 222, Start Num: 14

Candidate Starts for Milly\_1:

(Start: 14 @88 has 10 MA's), (19, 103), (24, 157), (25, 178), (26, 181),

Gene: MissDaisy\_1 Start: 117, Stop: 254, Start Num: 16

Candidate Starts for MissDaisy\_1:

(Start: 16 @117 has 23 MA's), (20, 141), (21, 153),

Gene: Mitti\_1 Start: 117, Stop: 254, Start Num: 16

Candidate Starts for Mitti\_1:

(Start: 16 @117 has 23 MA's), (20, 141), (21, 153),

Gene: Mufasa\_1 Start: 88, Stop: 222, Start Num: 14

Candidate Starts for Mufasa\_1:

(Start: 14 @88 has 10 MA's), (19, 103), (24, 157), (25, 178), (26, 181),

Gene: November\_1 Start: 69, Stop: 209, Start Num: 13

Candidate Starts for November\_1:

(Start: 13 @69 has 9 MA's), (25, 162), (26, 165),

Gene: OmniCritical\_1 Start: 117, Stop: 254, Start Num: 16

Candidate Starts for OmniCritical\_1:

(Start: 16 @117 has 23 MA's), (20, 141), (21, 153),

Gene: Patt\_1 Start: 117, Stop: 254, Start Num: 16

Candidate Starts for Patt\_1:

(Start: 16 @117 has 23 MA's), (20, 141), (21, 153),

Gene: Pharb\_1 Start: 51, Stop: 191, Start Num: 13  
Candidate Starts for Pharb\_1:  
(Start: 13 @51 has 9 MA's), (21, 87),

Gene: Pixie\_1 Start: 51, Stop: 194, Start Num: 12  
Candidate Starts for Pixie\_1:  
(Start: 12 @51 has 8 MA's), (18, 66), (21, 87),

Gene: Qhanda\_1 Start: 117, Stop: 254, Start Num: 16  
Candidate Starts for Qhanda\_1:  
(Start: 16 @117 has 23 MA's), (20, 141), (21, 153),

Gene: Reptar3000\_1 Start: 116, Stop: 253, Start Num: 16  
Candidate Starts for Reptar3000\_1:  
(Start: 16 @116 has 23 MA's), (20, 140), (21, 152),

Gene: Ruthiejr\_1 Start: 117, Stop: 254, Start Num: 16  
Candidate Starts for Ruthiejr\_1:  
(Start: 16 @117 has 23 MA's), (20, 141), (21, 153),

Gene: SamScheppers\_1 Start: 116, Stop: 253, Start Num: 16  
Candidate Starts for SamScheppers\_1:  
(Start: 16 @116 has 23 MA's), (20, 140), (21, 152),

Gene: ShedlockHolmes\_1 Start: 51, Stop: 194, Start Num: 12  
Candidate Starts for ShedlockHolmes\_1:  
(Start: 12 @51 has 8 MA's), (18, 66), (21, 87),

Gene: Slarp\_1 Start: 117, Stop: 254, Start Num: 16  
Candidate Starts for Slarp\_1:  
(Start: 16 @117 has 23 MA's), (20, 141), (21, 153),

Gene: Strobilo\_1 Start: 88, Stop: 222, Start Num: 14  
Candidate Starts for Strobilo\_1:  
(Start: 14 @88 has 10 MA's), (19, 103), (24, 157), (25, 178), (26, 181),

Gene: TBond007\_1 Start: 51, Stop: 194, Start Num: 12  
Candidate Starts for TBond007\_1:  
(Start: 12 @51 has 8 MA's), (18, 66), (21, 87),

Gene: TClif\_1 Start: 73, Stop: 243, Start Num: 6  
Candidate Starts for TClif\_1:  
(2, 1), (3, 7), (Start: 6 @73 has 2 MA's), (17, 133), (20, 145),

Gene: TM4\_1 Start: 100, Stop: 234, Start Num: 15  
Candidate Starts for TM4\_1:  
(Start: 15 @100 has 1 MA's), (19, 115), (25, 190),

Gene: Taquito\_1 Start: 117, Stop: 254, Start Num: 16  
Candidate Starts for Taquito\_1:  
(Start: 16 @117 has 23 MA's), (20, 141), (21, 153),

Gene: TingHuaYa\_1 Start: 86, Stop: 271, Start Num: 7  
Candidate Starts for TingHuaYa\_1:  
(Start: 6 @71 has 2 MA's), (7, 86), (20, 152), (25, 221),

Gene: TribelTrouble\_1 Start: 51, Stop: 197, Start Num: 12  
Candidate Starts for TribelTrouble\_1:  
(Start: 12 @51 has 8 MA's), (21, 90),

Gene: Wintermute\_1 Start: 116, Stop: 253, Start Num: 16  
Candidate Starts for Wintermute\_1:  
(Start: 16 @116 has 23 MA's), (20, 140), (21, 152),

Gene: Y10\_01 Start: 117, Stop: 254, Start Num: 16  
Candidate Starts for Y10\_01:  
(Start: 16 @117 has 23 MA's), (20, 141), (21, 153),

Gene: Y2\_01 Start: 117, Stop: 254, Start Num: 16  
Candidate Starts for Y2\_01:  
(Start: 16 @117 has 23 MA's), (20, 141), (21, 153),

Gene: YasnayaPolyana\_1 Start: 117, Stop: 254, Start Num: 16  
Candidate Starts for YasnayaPolyana\_1:  
(Start: 16 @117 has 23 MA's), (20, 141), (21, 153),

Gene: Yuna\_1 Start: 74, Stop: 316, Start Num: 6  
Candidate Starts for Yuna\_1:  
(Start: 6 @74 has 2 MA's), (8, 101), (20, 164), (25, 230), (27, 263),

Gene: ZoeJ\_1 Start: 88, Stop: 222, Start Num: 14  
Candidate Starts for ZoeJ\_1:  
(Start: 14 @88 has 10 MA's), (19, 103), (24, 157), (25, 178), (26, 181),