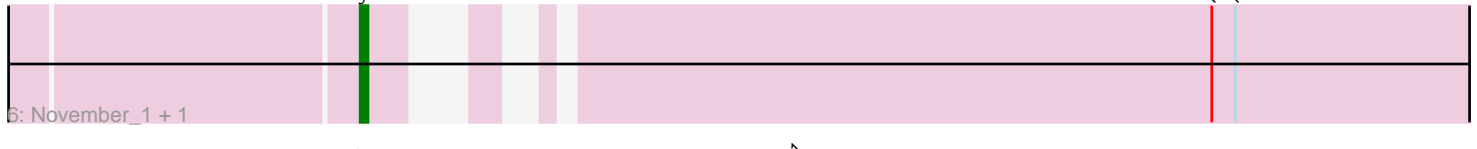
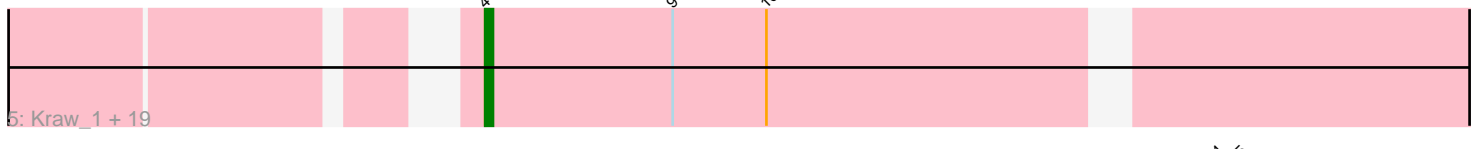
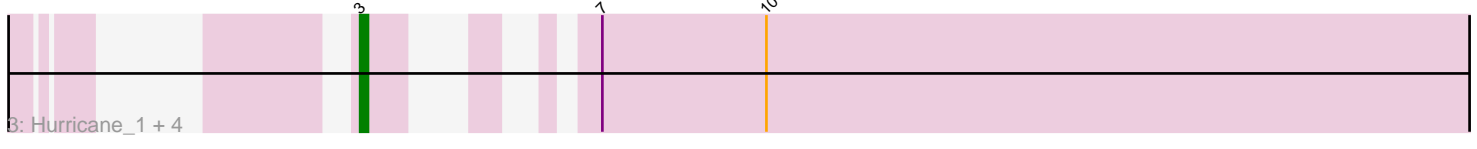
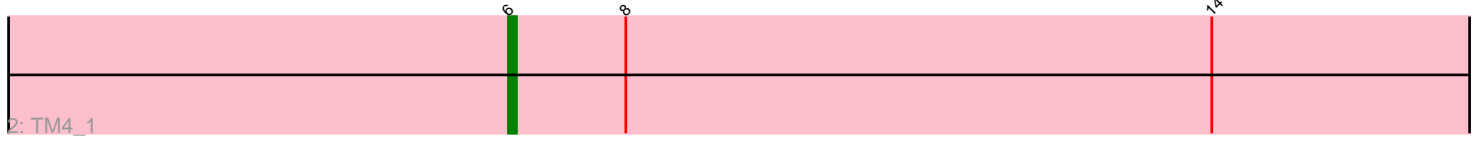
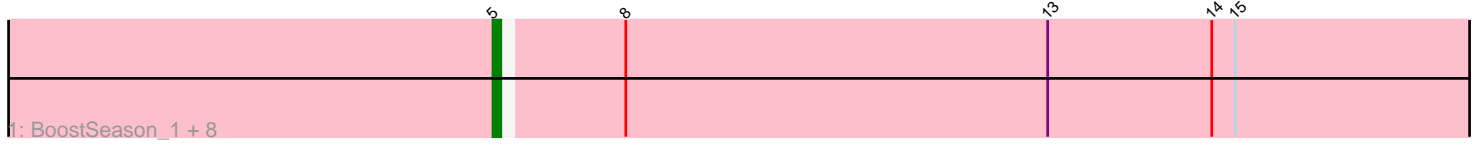


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 198147 Report

This analysis was run 01/18/25 on database version 583.

Pham number 198147 has 48 members, 2 are drafts.

Phages represented in each track:

- Track 1 : BoostSeason\_1, Milly\_1, Strobilo\_1, DismalFunk\_1, Mufasa\_1, DismalStressor\_1, Findley\_1, Marcoliusprime\_1, ZoeJ\_1
- Track 2 : TM4\_1
- Track 3 : Hurricane\_1, Keshu\_1, ShedlockHolmes\_1, Pixie\_1, TBond007\_1
- Track 4 : MacnCheese\_1, Pharb\_1, TribbleTrouble\_1
- Track 5 : Kraw\_1, Fionnbharth\_1, MissDaisy\_1, Juliette\_1, Eponine\_1, Y10\_01, Slarp\_1, Taquito\_1, JF1\_1, OmniCritical\_1, SamScheppers\_1, Patt\_1, Y2\_01, Malthus\_1, Reptar3000\_1, Cheetobro\_1, Ruthiejr\_1, Wintermute\_1, Chancellor\_1, Mitti\_1
- Track 6 : November\_1, Ekdilam\_1
- Track 7 : Ellie\_1
- Track 8 : Hammy\_1, Amohnition\_1, DARTH\_P\_1
- Track 9 : Fefferhead\_1, Amgine\_1
- Track 10 : Aminay\_1
- Track 11 : 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 4, it was called in 20 of the 46 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

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

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

- 

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

- Amgine\_1, Aminay\_1, Amohnition\_1, BoostSeason\_1, DARTH\_P\_1, DismalFunk\_1, DismalStressor\_1, Ekdilam\_1, Ellie\_1, Fefferhead\_1, Findley\_1, Hammy\_1, Hurricane\_1, Keshu\_1, MacnCheese\_1, Marcoliusprime\_1, Milly\_1, Mufasa\_1,

November\_1, Pharb\_1, Pixie\_1, ShedlockHolmes\_1, Strobilo\_1, TBond007\_1, TM4\_1, TribbleTrouble\_1, ZoeJ\_1,

### Summary by start number:

#### Start 1:

- Found in 1 of 48 ( 2.1% ) of genes in pham
- Manual Annotations of this start: 1 of 46
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aminay\_1 (K7),

#### Start 3:

- Found in 16 of 48 ( 33.3% ) of genes in pham
- Manual Annotations of this start: 15 of 46
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amgine\_1 (K6), Amohntion\_1 (K6), DarthP\_1 (K6), Ekdilam\_1 (K6), Ellie\_1 (K6), Fefferhead\_1 (K6), Hammy\_1 (K6), Hurricane\_1 (K3), Keshu\_1 (K3), MacnCheese\_1 (K3), November\_1 (K6), Pharb\_1 (K3), Pixie\_1 (K3), ShedlockHolmes\_1 (K3), TBond007\_1 (K3), TribbleTrouble\_1 (K3),

#### Start 4:

- Found in 21 of 48 ( 43.8% ) of genes in pham
- Manual Annotations of this start: 20 of 46
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Boilgate\_1 (K8), Chancellor\_1 (K4), Cheetobro\_1 (K4), Eponine\_1 (K4), Fionnbharth\_1 (K4), JF1\_1 (K4), Juliette\_1 (K4), Kraw\_1 (K4), Malthus\_1 (K4), MissDaisy\_1 (K4), Mitti\_1 (K4), OmniCritical\_1 (K4), Patt\_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),

#### Start 5:

- Found in 9 of 48 ( 18.8% ) of genes in pham
- Manual Annotations of this start: 9 of 46
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BoostSeason\_1 (K2), DismalFunk\_1 (K2), DismalStressor\_1 (K2), Findley\_1 (K2), Marcoliusprime\_1 (K2), Milly\_1 (K2), Mufasa\_1 (K2), Strobilo\_1 (K2), ZoeJ\_1 (K2),

#### Start 6:

- Found in 1 of 48 ( 2.1% ) of genes in pham
- Manual Annotations of this start: 1 of 46
- Called 100.0% of time when present
- Phage (with cluster) where this start called: TM4\_1 (K2),

### Summary by clusters:

There are 6 clusters represented in this pham: K3, K2, K7, K6, K4, K8,

#### Info for manual annotations of cluster K2:

- Start number 5 was manually annotated 9 times for cluster K2.
- Start number 6 was manually annotated 1 time for cluster K2.

#### Info for manual annotations of cluster K3:

- Start number 3 was manually annotated 8 times for cluster K3.

Info for manual annotations of cluster K4:

- Start number 4 was manually annotated 19 times for cluster K4.

Info for manual annotations of cluster K6:

- Start number 3 was manually annotated 7 times for cluster K6.

Info for manual annotations of cluster K7:

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

Info for manual annotations of cluster K8:

- Start number 4 was manually annotated 1 time for cluster K8.

### ***Gene Information:***

Gene: Amgine\_1 Start: 52, Stop: 195, Start Num: 3

Candidate Starts for Amgine\_1:

(Start: 3 @52 has 15 MA's), (10, 88), (11, 91),

Gene: Aminay\_1 Start: 67, Stop: 231, Start Num: 1

Candidate Starts for Aminay\_1:

(Start: 1 @67 has 1 MA's), (2, 70), (10, 127),

Gene: Amohnition\_1 Start: 70, Stop: 210, Start Num: 3

Candidate Starts for Amohnition\_1:

(Start: 3 @70 has 15 MA's), (14, 163), (15, 166),

Gene: Boilgate\_1 Start: 62, Stop: 202, Start Num: 4

Candidate Starts for Boilgate\_1:

(Start: 4 @62 has 20 MA's), (9, 83), (10, 95), (12, 110),

Gene: BoostSeason\_1 Start: 88, Stop: 222, Start Num: 5

Candidate Starts for BoostSeason\_1:

(Start: 5 @88 has 9 MA's), (8, 103), (13, 157), (14, 178), (15, 181),

Gene: Chancellor\_1 Start: 117, Stop: 254, Start Num: 4

Candidate Starts for Chancellor\_1:

(Start: 4 @117 has 20 MA's), (9, 141), (10, 153),

Gene: Cheetobro\_1 Start: 117, Stop: 254, Start Num: 4

Candidate Starts for Cheetobro\_1:

(Start: 4 @117 has 20 MA's), (9, 141), (10, 153),

Gene: DarthP\_1 Start: 70, Stop: 210, Start Num: 3

Candidate Starts for DarthP\_1:

(Start: 3 @70 has 15 MA's), (14, 163), (15, 166),

Gene: DismalFunk\_1 Start: 88, Stop: 222, Start Num: 5

Candidate Starts for DismalFunk\_1:

(Start: 5 @88 has 9 MA's), (8, 103), (13, 157), (14, 178), (15, 181),

Gene: DismalStressor\_1 Start: 88, Stop: 222, Start Num: 5  
Candidate Starts for DismalStressor\_1:  
(Start: 5 @88 has 9 MA's), (8, 103), (13, 157), (14, 178), (15, 181),

Gene: Ekdilam\_1 Start: 69, Stop: 209, Start Num: 3  
Candidate Starts for Ekdilam\_1:  
(Start: 3 @69 has 15 MA's), (14, 162), (15, 165),

Gene: Ellie\_1 Start: 52, Stop: 195, Start Num: 3  
Candidate Starts for Ellie\_1:  
(Start: 3 @52 has 15 MA's), (11, 91),

Gene: Eponine\_1 Start: 117, Stop: 254, Start Num: 4  
Candidate Starts for Eponine\_1:  
(Start: 4 @117 has 20 MA's), (9, 141), (10, 153),

Gene: Fefferhead\_1 Start: 52, Stop: 195, Start Num: 3  
Candidate Starts for Fefferhead\_1:  
(Start: 3 @52 has 15 MA's), (10, 88), (11, 91),

Gene: Findley\_1 Start: 88, Stop: 222, Start Num: 5  
Candidate Starts for Findley\_1:  
(Start: 5 @88 has 9 MA's), (8, 103), (13, 157), (14, 178), (15, 181),

Gene: Fionnbharth\_1 Start: 117, Stop: 254, Start Num: 4  
Candidate Starts for Fionnbharth\_1:  
(Start: 4 @117 has 20 MA's), (9, 141), (10, 153),

Gene: Hammy\_1 Start: 70, Stop: 210, Start Num: 3  
Candidate Starts for Hammy\_1:  
(Start: 3 @70 has 15 MA's), (14, 163), (15, 166),

Gene: Hurricane\_1 Start: 51, Stop: 194, Start Num: 3  
Candidate Starts for Hurricane\_1:  
(Start: 3 @51 has 15 MA's), (7, 66), (10, 87),

Gene: JF1\_1 Start: 117, Stop: 254, Start Num: 4  
Candidate Starts for JF1\_1:  
(Start: 4 @117 has 20 MA's), (9, 141), (10, 153),

Gene: Juliette\_1 Start: 117, Stop: 254, Start Num: 4  
Candidate Starts for Juliette\_1:  
(Start: 4 @117 has 20 MA's), (9, 141), (10, 153),

Gene: Keshu\_1 Start: 51, Stop: 194, Start Num: 3  
Candidate Starts for Keshu\_1:  
(Start: 3 @51 has 15 MA's), (7, 66), (10, 87),

Gene: Kraw\_1 Start: 117, Stop: 254, Start Num: 4  
Candidate Starts for Kraw\_1:  
(Start: 4 @117 has 20 MA's), (9, 141), (10, 153),

Gene: MacnCheese\_1 Start: 51, Stop: 197, Start Num: 3  
Candidate Starts for MacnCheese\_1:  
(Start: 3 @51 has 15 MA's), (10, 90),

Gene: Malthus\_1 Start: 117, Stop: 254, Start Num: 4  
Candidate Starts for Malthus\_1:  
(Start: 4 @117 has 20 MA's), (9, 141), (10, 153),

Gene: Marcoliusprime\_1 Start: 88, Stop: 222, Start Num: 5  
Candidate Starts for Marcoliusprime\_1:  
(Start: 5 @88 has 9 MA's), (8, 103), (13, 157), (14, 178), (15, 181),

Gene: Milly\_1 Start: 88, Stop: 222, Start Num: 5  
Candidate Starts for Milly\_1:  
(Start: 5 @88 has 9 MA's), (8, 103), (13, 157), (14, 178), (15, 181),

Gene: MissDaisy\_1 Start: 117, Stop: 254, Start Num: 4  
Candidate Starts for MissDaisy\_1:  
(Start: 4 @117 has 20 MA's), (9, 141), (10, 153),

Gene: Mitti\_1 Start: 117, Stop: 254, Start Num: 4  
Candidate Starts for Mitti\_1:  
(Start: 4 @117 has 20 MA's), (9, 141), (10, 153),

Gene: Mufasa\_1 Start: 88, Stop: 222, Start Num: 5  
Candidate Starts for Mufasa\_1:  
(Start: 5 @88 has 9 MA's), (8, 103), (13, 157), (14, 178), (15, 181),

Gene: November\_1 Start: 69, Stop: 209, Start Num: 3  
Candidate Starts for November\_1:  
(Start: 3 @69 has 15 MA's), (14, 162), (15, 165),

Gene: OmniCritical\_1 Start: 117, Stop: 254, Start Num: 4  
Candidate Starts for OmniCritical\_1:  
(Start: 4 @117 has 20 MA's), (9, 141), (10, 153),

Gene: Patt\_1 Start: 117, Stop: 254, Start Num: 4  
Candidate Starts for Patt\_1:  
(Start: 4 @117 has 20 MA's), (9, 141), (10, 153),

Gene: Pharb\_1 Start: 51, Stop: 191, Start Num: 3  
Candidate Starts for Pharb\_1:  
(Start: 3 @51 has 15 MA's), (10, 87),

Gene: Pixie\_1 Start: 51, Stop: 194, Start Num: 3  
Candidate Starts for Pixie\_1:  
(Start: 3 @51 has 15 MA's), (7, 66), (10, 87),

Gene: Reptar3000\_1 Start: 116, Stop: 253, Start Num: 4  
Candidate Starts for Reptar3000\_1:  
(Start: 4 @116 has 20 MA's), (9, 140), (10, 152),

Gene: Ruthiejr\_1 Start: 117, Stop: 254, Start Num: 4

Candidate Starts for Ruthiejr\_1:  
(Start: 4 @117 has 20 MA's), (9, 141), (10, 153),

Gene: SamScheppers\_1 Start: 116, Stop: 253, Start Num: 4  
Candidate Starts for SamScheppers\_1:  
(Start: 4 @116 has 20 MA's), (9, 140), (10, 152),

Gene: ShedlockHolmes\_1 Start: 51, Stop: 194, Start Num: 3  
Candidate Starts for ShedlockHolmes\_1:  
(Start: 3 @51 has 15 MA's), (7, 66), (10, 87),

Gene: Slarp\_1 Start: 117, Stop: 254, Start Num: 4  
Candidate Starts for Slarp\_1:  
(Start: 4 @117 has 20 MA's), (9, 141), (10, 153),

Gene: Strobilo\_1 Start: 88, Stop: 222, Start Num: 5  
Candidate Starts for Strobilo\_1:  
(Start: 5 @88 has 9 MA's), (8, 103), (13, 157), (14, 178), (15, 181),

Gene: TBond007\_1 Start: 51, Stop: 194, Start Num: 3  
Candidate Starts for TBond007\_1:  
(Start: 3 @51 has 15 MA's), (7, 66), (10, 87),

Gene: TM4\_1 Start: 100, Stop: 234, Start Num: 6  
Candidate Starts for TM4\_1:  
(Start: 6 @100 has 1 MA's), (8, 115), (14, 190),

Gene: Taquito\_1 Start: 117, Stop: 254, Start Num: 4  
Candidate Starts for Taquito\_1:  
(Start: 4 @117 has 20 MA's), (9, 141), (10, 153),

Gene: TribelTrouble\_1 Start: 51, Stop: 197, Start Num: 3  
Candidate Starts for TribelTrouble\_1:  
(Start: 3 @51 has 15 MA's), (10, 90),

Gene: Wintermute\_1 Start: 116, Stop: 253, Start Num: 4  
Candidate Starts for Wintermute\_1:  
(Start: 4 @116 has 20 MA's), (9, 140), (10, 152),

Gene: Y10\_01 Start: 117, Stop: 254, Start Num: 4  
Candidate Starts for Y10\_01:  
(Start: 4 @117 has 20 MA's), (9, 141), (10, 153),

Gene: Y2\_01 Start: 117, Stop: 254, Start Num: 4  
Candidate Starts for Y2\_01:  
(Start: 4 @117 has 20 MA's), (9, 141), (10, 153),

Gene: ZoeJ\_1 Start: 88, Stop: 222, Start Num: 5  
Candidate Starts for ZoeJ\_1:  
(Start: 5 @88 has 9 MA's), (8, 103), (13, 157), (14, 178), (15, 181),