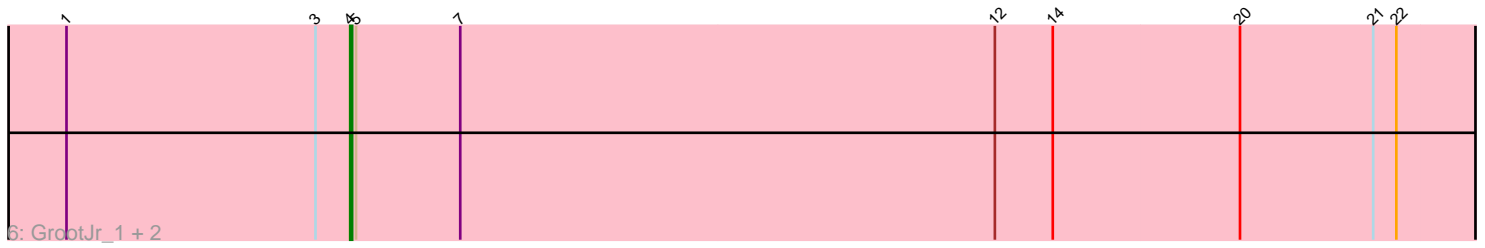
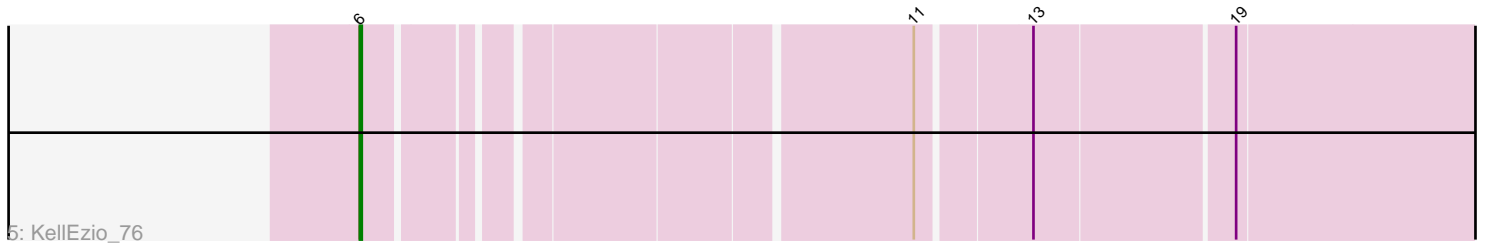
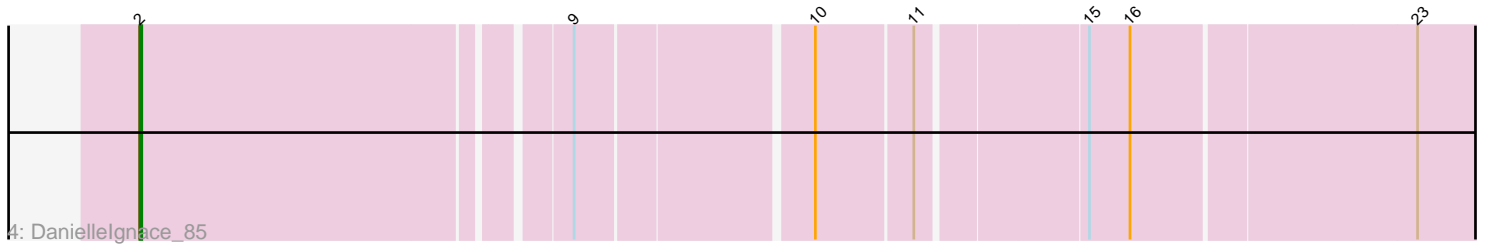
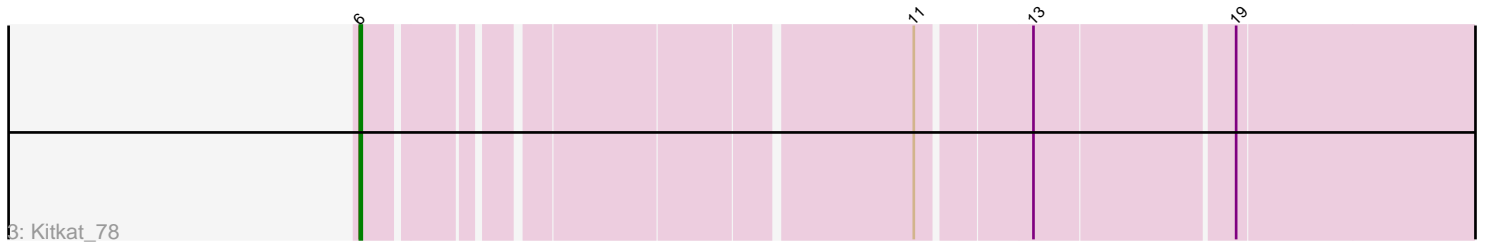
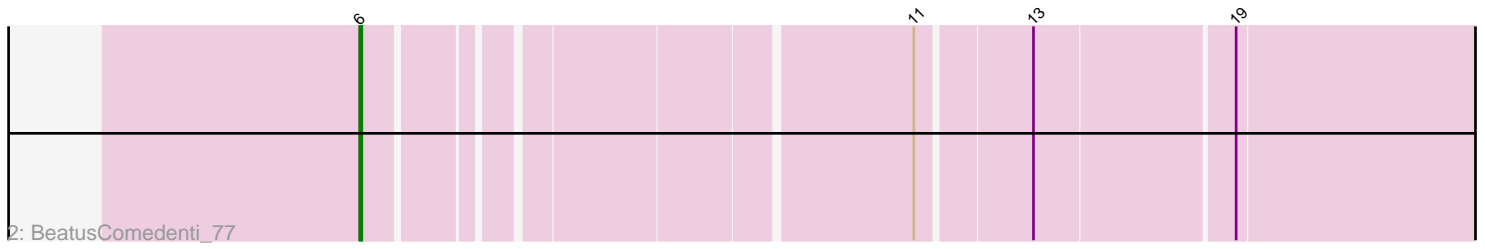
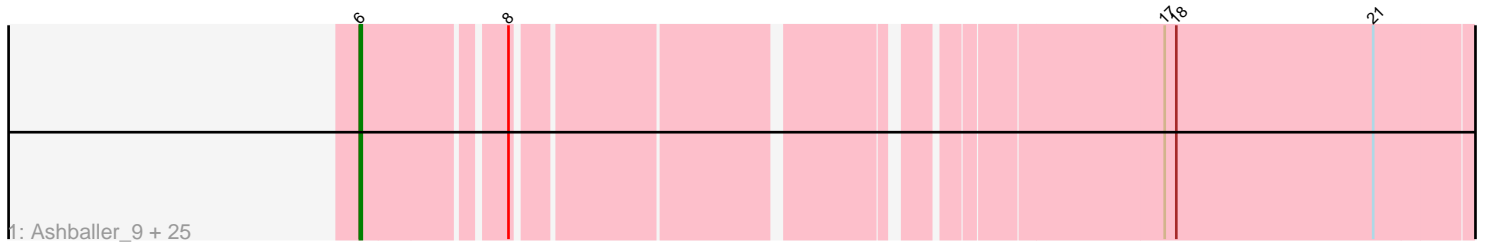


Pham 309002



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 309002 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309002 has 33 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Ashballer\_9, Rubeus\_11, Fajezeel\_12, Jerm2\_11, PattyP\_12, Rufus\_11, Pippin\_12, Rutherferd\_12, DreamCatcher\_13, Museum\_12, Greg\_12, Fushigi\_11, Bruns\_9, GageAP\_12, Marge\_11, Kenmech\_13, Niza\_12, Treddle\_12, SpikeBT\_12, Gyzlar\_12, Sibs6\_12, Mkhusei\_10, Monet\_12, Acme\_12, Burton\_11, BigMau\_12
- Track 2 : BeatusComedenti\_77
- Track 3 : Kitkat\_78
- Track 4 : DanielleIgnace\_85
- Track 5 : KellEzio\_76
- Track 6 : GrootJr\_1, NatB6\_1, NovumRegina\_1

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

The start number called the most often in the published annotations is 6, it was called in 28 of the 32 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acme\_12, Ashballer\_9, BeatusComedenti\_77, BigMau\_12, Bruns\_9, Burton\_11, DreamCatcher\_13, Fajezeel\_12, Fushigi\_11, GageAP\_12, Greg\_12, Gyzlar\_12, Jerm2\_11, KellEzio\_76, Kenmech\_13, Kitkat\_78, Marge\_11, Mkhusei\_10, Monet\_12, Museum\_12, Niza\_12, PattyP\_12, Pippin\_12, Rubeus\_11, Rufus\_11, Rutherferd\_12, Sibs6\_12, SpikeBT\_12, Treddle\_12,

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

- 

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

- DanielleIgnace\_85, GrootJr\_1, NatB6\_1, NovumRegina\_1,

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

Start 2:

- Found in 1 of 33 ( 3.0% ) of genes in pham
- Manual Annotations of this start: 1 of 32
- Called 100.0% of time when present

- Phage (with cluster) where this start called: DanielleIgnace\_85 (AT),

#### Start 4:

- Found in 3 of 33 ( 9.1% ) of genes in pham
- Manual Annotations of this start: 3 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GrootJr\_1 (CR2), NatB6\_1 (CR2), NovumRegina\_1 (CR2),

#### Start 6:

- Found in 29 of 33 ( 87.9% ) of genes in pham
- Manual Annotations of this start: 28 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Acme\_12 (A1), Ashballer\_9 (A1), BeatusComedenti\_77 (AT), BigMau\_12 (A1), Bruns\_9 (A1), Burton\_11 (A1), DreamCatcher\_13 (A1), Fajezeel\_12 (A1), Fushigi\_11 (A1), GageAP\_12 (A1), Greg\_12 (A1), Gyzlar\_12 (A1), Jerm2\_11 (A1), KellEzio\_76 (AT), Kenmech\_13 (A1), Kitkat\_78 (AT), Marge\_11 (A1), Mkhuseleli\_10 (A1), Monet\_12 (A1), Museum\_12 (A1), Niza\_12 (A1), PattyP\_12 (A1), Pippin\_12 (A1), Rubeus\_11 (A1), Rufus\_11 (A1), Rutherford\_12 (A1), Sibs6\_12 (A1), SpikeBT\_12 (A1), Treddle\_12 (A1),

### **Summary by clusters:**

There are 3 clusters represented in this pham: A1, CR2, AT,

Info for manual annotations of cluster A1:

- Start number 6 was manually annotated 25 times for cluster A1.

Info for manual annotations of cluster AT:

- Start number 2 was manually annotated 1 time for cluster AT.
- Start number 6 was manually annotated 3 times for cluster AT.

Info for manual annotations of cluster CR2:

- Start number 4 was manually annotated 3 times for cluster CR2.

### **Gene Information:**

Gene: Acme\_12 Start: 6852, Stop: 7370, Start Num: 6

Candidate Starts for Acme\_12:

(Start: 6 @6852 has 28 MA's), (8, 6918), (17, 7215), (18, 7221), (21, 7323),

Gene: Ashballer\_9 Start: 6492, Stop: 7010, Start Num: 6

Candidate Starts for Ashballer\_9:

(Start: 6 @6492 has 28 MA's), (8, 6558), (17, 6855), (18, 6861), (21, 6963),

Gene: BeatusComedenti\_77 Start: 46978, Stop: 47505, Start Num: 6

Candidate Starts for BeatusComedenti\_77:

(Start: 6 @46978 has 28 MA's), (11, 47233), (13, 47287), (19, 47386),

Gene: BigMau\_12 Start: 6719, Stop: 7237, Start Num: 6

Candidate Starts for BigMau\_12:

(Start: 6 @6719 has 28 MA's), (8, 6785), (17, 7082), (18, 7088), (21, 7190),

Gene: Bruns\_9 Start: 6422, Stop: 6940, Start Num: 6

Candidate Starts for Bruns\_9:

(Start: 6 @6422 has 28 MA's), (8, 6488), (17, 6785), (18, 6791), (21, 6893),

Gene: Burton\_11 Start: 6622, Stop: 7140, Start Num: 6

Candidate Starts for Burton\_11:

(Start: 6 @6622 has 28 MA's), (8, 6688), (17, 6985), (18, 6991), (21, 7093),

Gene: DanielleIgnace\_85 Start: 51004, Stop: 51654, Start Num: 2

Candidate Starts for DanielleIgnace\_85:

(Start: 2 @51004 has 1 MA's), (9, 51211), (10, 51325), (11, 51373), (15, 51454), (16, 51475), (23, 51616),

Gene: DreamCatcher\_13 Start: 7699, Stop: 8217, Start Num: 6

Candidate Starts for DreamCatcher\_13:

(Start: 6 @7699 has 28 MA's), (8, 7765), (17, 8062), (18, 8068), (21, 8170),

Gene: Fajezeel\_12 Start: 6818, Stop: 7336, Start Num: 6

Candidate Starts for Fajezeel\_12:

(Start: 6 @6818 has 28 MA's), (8, 6884), (17, 7181), (18, 7187), (21, 7289),

Gene: Fushigi\_11 Start: 6909, Stop: 7427, Start Num: 6

Candidate Starts for Fushigi\_11:

(Start: 6 @6909 has 28 MA's), (8, 6975), (17, 7272), (18, 7278), (21, 7380),

Gene: GageAP\_12 Start: 7234, Stop: 7752, Start Num: 6

Candidate Starts for GageAP\_12:

(Start: 6 @7234 has 28 MA's), (8, 7300), (17, 7597), (18, 7603), (21, 7705),

Gene: Greg\_12 Start: 6818, Stop: 7336, Start Num: 6

Candidate Starts for Greg\_12:

(Start: 6 @6818 has 28 MA's), (8, 6884), (17, 7181), (18, 7187), (21, 7289),

Gene: GrootJr\_1 Start: 214, Stop: 828, Start Num: 4

Candidate Starts for GrootJr\_1:

(1, 67), (3, 196), (Start: 4 @214 has 3 MA's), (5, 217), (7, 271), (12, 547), (14, 577), (20, 673), (21, 742), (22, 754),

Gene: Gyzlar\_12 Start: 7448, Stop: 7966, Start Num: 6

Candidate Starts for Gyzlar\_12:

(Start: 6 @7448 has 28 MA's), (8, 7514), (17, 7811), (18, 7817), (21, 7919),

Gene: Jerm2\_11 Start: 6719, Stop: 7237, Start Num: 6

Candidate Starts for Jerm2\_11:

(Start: 6 @6719 has 28 MA's), (8, 6785), (17, 7082), (18, 7088), (21, 7190),

Gene: KellEzio\_76 Start: 46754, Stop: 47281, Start Num: 6

Candidate Starts for KellEzio\_76:

(Start: 6 @46754 has 28 MA's), (11, 47009), (13, 47063), (19, 47162),

Gene: Kenmech\_13 Start: 7591, Stop: 8109, Start Num: 6

Candidate Starts for Kenmech\_13:

(Start: 6 @7591 has 28 MA's), (8, 7657), (17, 7954), (18, 7960), (21, 8062),

Gene: Kitkat\_78 Start: 47043, Stop: 47570, Start Num: 6

Candidate Starts for Kitkat\_78:

(Start: 6 @47043 has 28 MA's), (11, 47298), (13, 47352), (19, 47451),

Gene: Marge\_11 Start: 6955, Stop: 7473, Start Num: 6

Candidate Starts for Marge\_11:

(Start: 6 @6955 has 28 MA's), (8, 7021), (17, 7318), (18, 7324), (21, 7426),

Gene: Mkhuseli\_10 Start: 6576, Stop: 7094, Start Num: 6

Candidate Starts for Mkhuseli\_10:

(Start: 6 @6576 has 28 MA's), (8, 6642), (17, 6939), (18, 6945), (21, 7047),

Gene: Monet\_12 Start: 7472, Stop: 7990, Start Num: 6

Candidate Starts for Monet\_12:

(Start: 6 @7472 has 28 MA's), (8, 7538), (17, 7835), (18, 7841), (21, 7943),

Gene: Museum\_12 Start: 6561, Stop: 7079, Start Num: 6

Candidate Starts for Museum\_12:

(Start: 6 @6561 has 28 MA's), (8, 6627), (17, 6924), (18, 6930), (21, 7032),

Gene: NatB6\_1 Start: 214, Stop: 828, Start Num: 4

Candidate Starts for NatB6\_1:

(1, 67), (3, 196), (Start: 4 @214 has 3 MA's), (5, 217), (7, 271), (12, 547), (14, 577), (20, 673), (21, 742), (22, 754),

Gene: Niza\_12 Start: 7581, Stop: 8099, Start Num: 6

Candidate Starts for Niza\_12:

(Start: 6 @7581 has 28 MA's), (8, 7647), (17, 7944), (18, 7950), (21, 8052),

Gene: NovumRegina\_1 Start: 214, Stop: 828, Start Num: 4

Candidate Starts for NovumRegina\_1:

(1, 67), (3, 196), (Start: 4 @214 has 3 MA's), (5, 217), (7, 271), (12, 547), (14, 577), (20, 673), (21, 742), (22, 754),

Gene: PattyP\_12 Start: 6770, Stop: 7288, Start Num: 6

Candidate Starts for PattyP\_12:

(Start: 6 @6770 has 28 MA's), (8, 6836), (17, 7133), (18, 7139), (21, 7241),

Gene: Pippin\_12 Start: 6820, Stop: 7338, Start Num: 6

Candidate Starts for Pippin\_12:

(Start: 6 @6820 has 28 MA's), (8, 6886), (17, 7183), (18, 7189), (21, 7291),

Gene: Rubeus\_11 Start: 6578, Stop: 7096, Start Num: 6

Candidate Starts for Rubeus\_11:

(Start: 6 @6578 has 28 MA's), (8, 6644), (17, 6941), (18, 6947), (21, 7049),

Gene: Rufus\_11 Start: 6635, Stop: 7153, Start Num: 6

Candidate Starts for Rufus\_11:

(Start: 6 @6635 has 28 MA's), (8, 6701), (17, 6998), (18, 7004), (21, 7106),

Gene: Rutherferd\_12 Start: 7096, Stop: 7614, Start Num: 6  
Candidate Starts for Rutherferd\_12:  
(Start: 6 @7096 has 28 MA's), (8, 7162), (17, 7459), (18, 7465), (21, 7567),

Gene: Sibs6\_12 Start: 6771, Stop: 7289, Start Num: 6  
Candidate Starts for Sibs6\_12:  
(Start: 6 @6771 has 28 MA's), (8, 6837), (17, 7134), (18, 7140), (21, 7242),

Gene: SpikeBT\_12 Start: 7407, Stop: 7925, Start Num: 6  
Candidate Starts for SpikeBT\_12:  
(Start: 6 @7407 has 28 MA's), (8, 7473), (17, 7770), (18, 7776), (21, 7878),

Gene: Treddle\_12 Start: 7473, Stop: 7991, Start Num: 6  
Candidate Starts for Treddle\_12:  
(Start: 6 @7473 has 28 MA's), (8, 7539), (17, 7836), (18, 7842), (21, 7944),