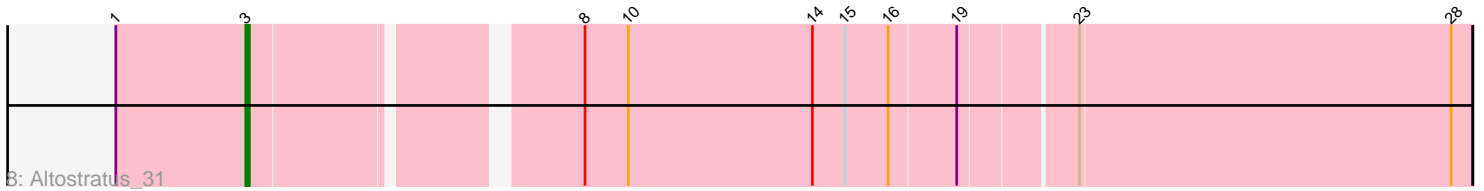
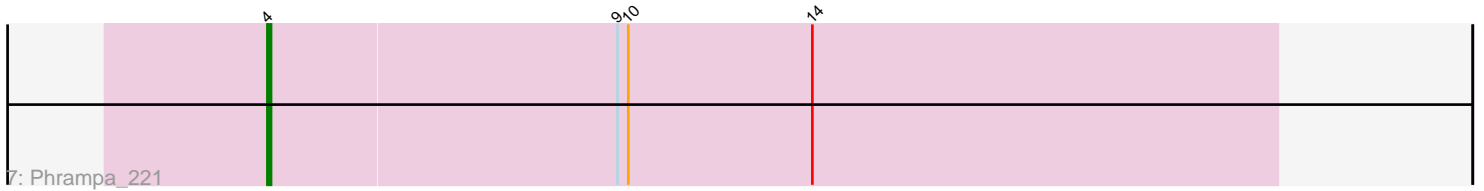
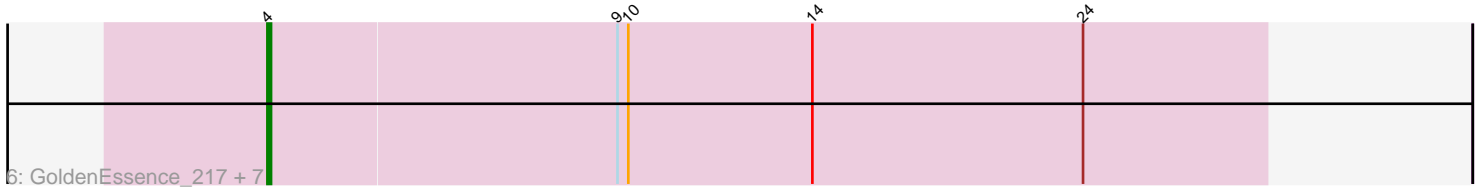
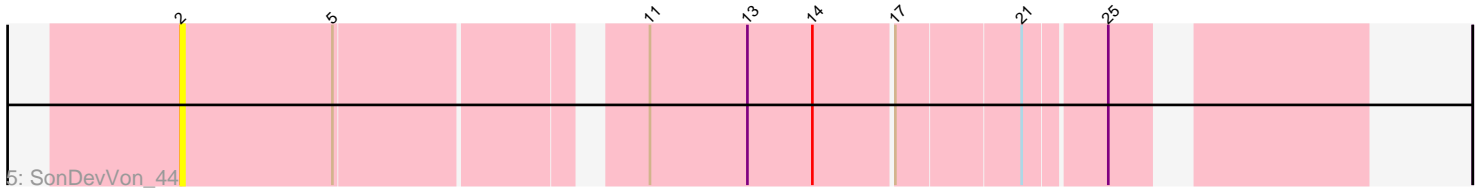
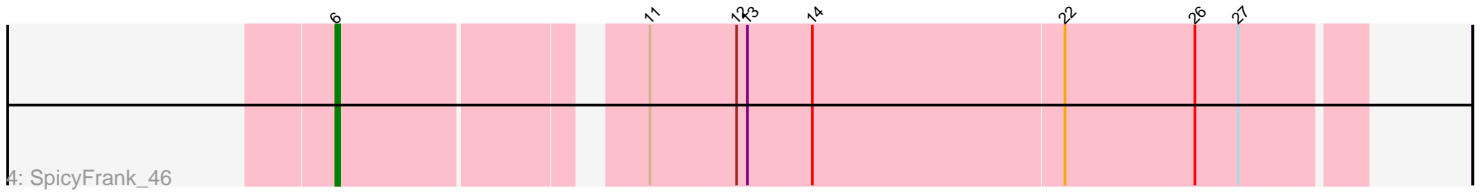
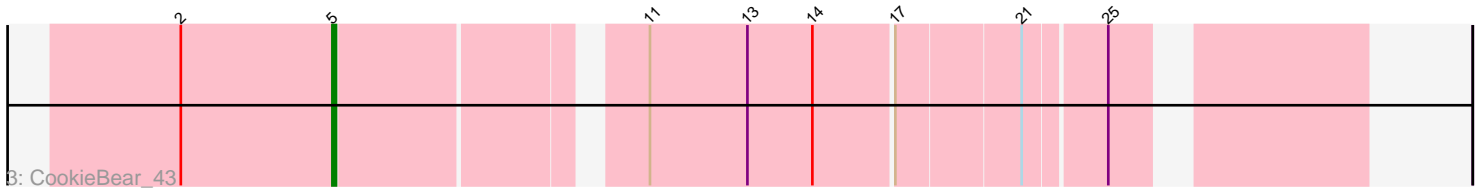
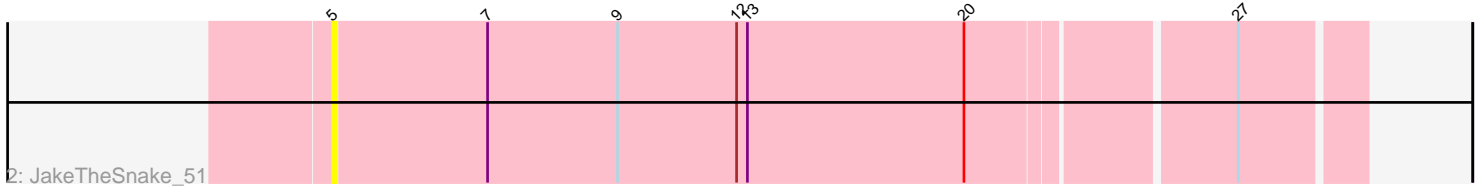
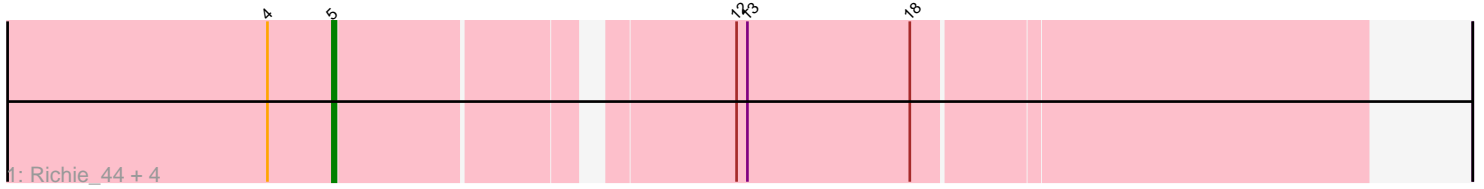


# Pham 301791



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 301791 Report

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

Pham number 301791 has 19 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Richie\_44, Faja\_41, Lawnathon\_44, BasketStar\_43, Raphaella\_42
- Track 2 : JakeTheSnake\_51
- Track 3 : CookieBear\_43
- Track 4 : SpicyFrank\_46
- Track 5 : SonDevVon\_44
- Track 6 : GoldenEssence\_217, Bloom\_232, Patbob\_226, FrostedClock\_232, Mimi\_228, Talia1610\_230, FloraSnap32\_225, Racecar\_230
- Track 7 : Phrampa\_221
- Track 8 : Altostratus\_31

### ***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 6 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bloom\_232, FloraSnap32\_225, FrostedClock\_232, GoldenEssence\_217, Mimi\_228, Patbob\_226, Phrampa\_221, Racecar\_230, Talia1610\_230,

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

- BasketStar\_43, Faja\_41, Lawnathon\_44, Raphaella\_42, Richie\_44,

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

- Altostratus\_31, CookieBear\_43, JakeTheSnake\_51, SonDevVon\_44, SpicyFrank\_46,

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

Start 2:

- Found in 2 of 19 ( 10.5% ) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: SonDevVon\_44 (AY),

#### Start 3:

- Found in 1 of 19 ( 5.3% ) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Altostratus\_31 (FS),

#### Start 4:

- Found in 14 of 19 ( 73.7% ) of genes in pham
- Manual Annotations of this start: 6 of 13
- Called 64.3% of time when present
- Phage (with cluster) where this start called: Bloom\_232 (FC), FloraSnap32\_225 (FC), FrostedClock\_232 (FC), GoldenEssence\_217 (FC), Mimi\_228 (FC), Patbob\_226 (FC), Phrampa\_221 (FC), Racecar\_230 (FC), Talia1610\_230 (FC),

#### Start 5:

- Found in 8 of 19 ( 42.1% ) of genes in pham
- Manual Annotations of this start: 5 of 13
- Called 87.5% of time when present
- Phage (with cluster) where this start called: BasketStar\_43 (AY), CookieBear\_43 (AY), Faja\_41 (AY), JakeTheSnake\_51 (AY), Lawnathon\_44 (AY), Raphaella\_42 (AY), Richie\_44 (AY),

#### Start 6:

- Found in 1 of 19 ( 5.3% ) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SpicyFrank\_46 (AY),

### **Summary by clusters:**

There are 3 clusters represented in this pham: FS, AY, FC,

Info for manual annotations of cluster AY:

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

Info for manual annotations of cluster FC:

- Start number 4 was manually annotated 6 times for cluster FC.

Info for manual annotations of cluster FS:

- Start number 3 was manually annotated 1 time for cluster FS.

### **Gene Information:**

Gene: Altostratus\_31 Start: 23118, Stop: 22798, Start Num: 3

Candidate Starts for Altostratus\_31:

(1, 23154), (Start: 3 @23118 has 1 MA's), (8, 23037), (10, 23025), (14, 22974), (15, 22965), (16, 22953), (19, 22935), (23, 22905), (28, 22803),

Gene: BasketStar\_43 Start: 28707, Stop: 28438, Start Num: 5

Candidate Starts for BasketStar\_43:

(Start: 4 @28725 has 6 MA's), (Start: 5 @28707 has 5 MA's), (12, 28608), (13, 28605), (18, 28560),

Gene: Bloom\_232 Start: 152192, Stop: 152467, Start Num: 4

Candidate Starts for Bloom\_232:

(Start: 4 @152192 has 6 MA's), (9, 152288), (10, 152291), (14, 152342), (24, 152417),

Gene: CookieBear\_43 Start: 28808, Stop: 28554, Start Num: 5

Candidate Starts for CookieBear\_43:

(2, 28850), (Start: 5 @28808 has 5 MA's), (11, 28733), (13, 28706), (14, 28688), (17, 28667), (21, 28634), (25, 28613),

Gene: Faja\_41 Start: 29504, Stop: 29235, Start Num: 5

Candidate Starts for Faja\_41:

(Start: 4 @29522 has 6 MA's), (Start: 5 @29504 has 5 MA's), (12, 29405), (13, 29402), (18, 29357),

Gene: FloraSnap32\_225 Start: 150352, Stop: 150627, Start Num: 4

Candidate Starts for FloraSnap32\_225:

(Start: 4 @150352 has 6 MA's), (9, 150448), (10, 150451), (14, 150502), (24, 150577),

Gene: FrostedClock\_232 Start: 152336, Stop: 152611, Start Num: 4

Candidate Starts for FrostedClock\_232:

(Start: 4 @152336 has 6 MA's), (9, 152432), (10, 152435), (14, 152486), (24, 152561),

Gene: GoldenEssence\_217 Start: 146169, Stop: 146444, Start Num: 4

Candidate Starts for GoldenEssence\_217:

(Start: 4 @146169 has 6 MA's), (9, 146265), (10, 146268), (14, 146319), (24, 146394),

Gene: JakeTheSnake\_51 Start: 31576, Stop: 31851, Start Num: 5

Candidate Starts for JakeTheSnake\_51:

(Start: 5 @31576 has 5 MA's), (7, 31618), (9, 31654), (12, 31687), (13, 31690), (20, 31750), (27, 31819),

Gene: Lawnathon\_44 Start: 28624, Stop: 28355, Start Num: 5

Candidate Starts for Lawnathon\_44:

(Start: 4 @28642 has 6 MA's), (Start: 5 @28624 has 5 MA's), (12, 28525), (13, 28522), (18, 28477),

Gene: Mimi\_228 Start: 151567, Stop: 151842, Start Num: 4

Candidate Starts for Mimi\_228:

(Start: 4 @151567 has 6 MA's), (9, 151663), (10, 151666), (14, 151717), (24, 151792),

Gene: Patbob\_226 Start: 151965, Stop: 152240, Start Num: 4

Candidate Starts for Patbob\_226:

(Start: 4 @151965 has 6 MA's), (9, 152061), (10, 152064), (14, 152115), (24, 152190),

Gene: Phrampa\_221 Start: 152824, Stop: 153102, Start Num: 4

Candidate Starts for Phrampa\_221:

(Start: 4 @152824 has 6 MA's), (9, 152920), (10, 152923), (14, 152974),

Gene: Racecar\_230 Start: 151946, Stop: 152221, Start Num: 4

Candidate Starts for Racecar\_230:

(Start: 4 @151946 has 6 MA's), (9, 152042), (10, 152045), (14, 152096), (24, 152171),

Gene: Raphaella\_42 Start: 28164, Stop: 27895, Start Num: 5

Candidate Starts for Raphaella\_42:

(Start: 4 @28182 has 6 MA's), (Start: 5 @28164 has 5 MA's), (12, 28065), (13, 28062), (18, 28017),

Gene: Richie\_44 Start: 28785, Stop: 28516, Start Num: 5

Candidate Starts for Richie\_44:

(Start: 4 @28803 has 6 MA's), (Start: 5 @28785 has 5 MA's), (12, 28686), (13, 28683), (18, 28638),

Gene: SonDevVon\_44 Start: 29061, Stop: 28765, Start Num: 2

Candidate Starts for SonDevVon\_44:

(2, 29061), (Start: 5 @29019 has 5 MA's), (11, 28944), (13, 28917), (14, 28899), (17, 28878), (21, 28845), (25, 28824),

Gene: SpicyFrank\_46 Start: 29525, Stop: 29256, Start Num: 6

Candidate Starts for SpicyFrank\_46:

(Start: 6 @29525 has 1 MA's), (11, 29450), (12, 29426), (13, 29423), (14, 29405), (22, 29336), (26, 29300), (27, 29288),

Gene: Talia1610\_230 Start: 151976, Stop: 152251, Start Num: 4

Candidate Starts for Talia1610\_230:

(Start: 4 @151976 has 6 MA's), (9, 152072), (10, 152075), (14, 152126), (24, 152201),