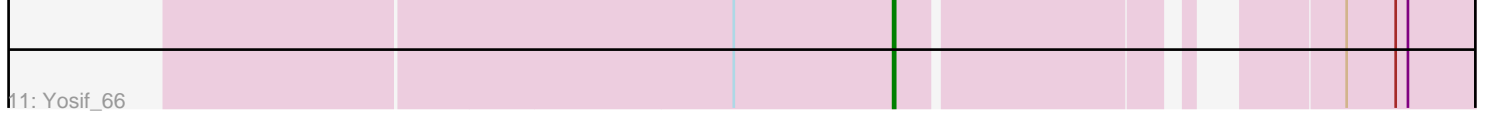
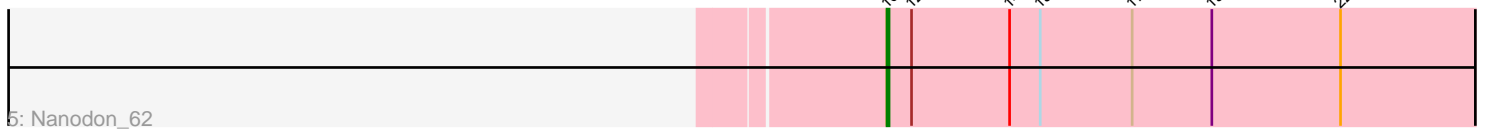
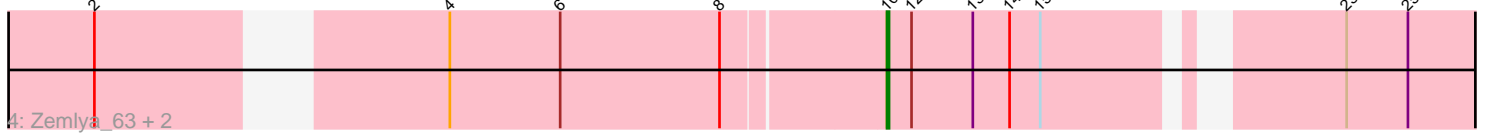
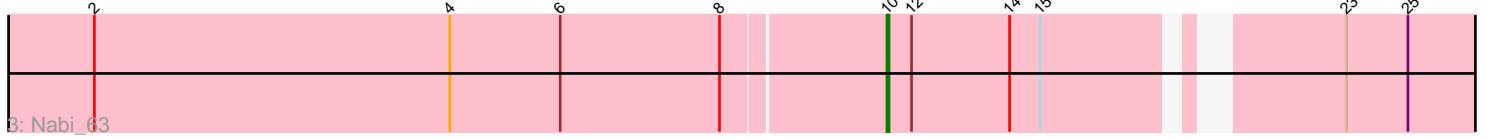
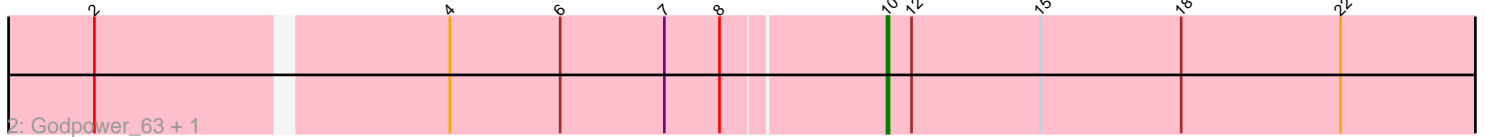
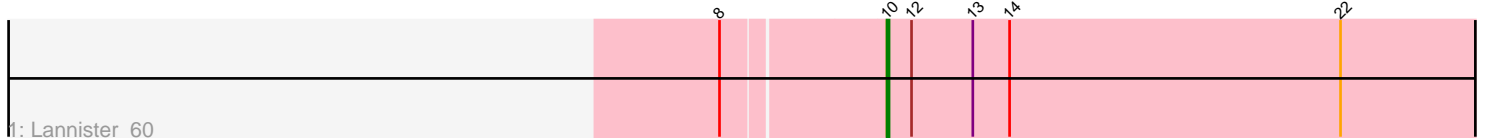


# Pham 171797



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 171797 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171797 has 19 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Lannister\_60
- Track 2 : Godpower\_63, Sujidade\_63
- Track 3 : Nabi\_63
- Track 4 : Zemlya\_63, Brataylor\_64, Danzina\_63
- Track 5 : Nanodon\_62
- Track 6 : Goby\_63, Toma\_63
- Track 7 : Dattran\_64, Celeste\_63
- Track 8 : Lika\_62
- Track 9 : Rana\_63, Lorelei\_62
- Track 10 : South40\_61, Katalie\_61, RedBear\_62
- Track 11 : Yosif\_66

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

The start number called the most often in the published annotations is 10, it was called in 18 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Brataylor\_64, Celeste\_63, Danzina\_63, Dattran\_64, Goby\_63, Godpower\_63, Katalie\_61, Lannister\_60, Lika\_62, Lorelei\_62, Nabi\_63, Nanodon\_62, Rana\_63, RedBear\_62, South40\_61, Sujidade\_63, Toma\_63, Zemlya\_63,

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

- 

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

- Yosif\_66,

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

Start 10:

- Found in 18 of 19 ( 94.7% ) of genes in pham
- Manual Annotations of this start: 18 of 19
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Brataylor\_64 (BD1), Celeste\_63 (BD1), Danzina\_63 (BD1), Dattran\_64 (BD1), Goby\_63 (BD1), Godpower\_63 (BD1), Katalie\_61 (BD1), Lannister\_60 (BD1), Lika\_62 (BD1), Lorelei\_62 (BD1), Nabi\_63 (BD1), Nanodon\_62 (BD1), Rana\_63 (BD1), RedBear\_62 (BD1), South40\_61 (BD1), Sujidade\_63 (BD1), Toma\_63 (BD1), Zemlya\_63 (BD1),

Start 11:

- Found in 1 of 19 ( 5.3% ) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Yosif\_66 (BD3),

### **Summary by clusters:**

There are 2 clusters represented in this pham: BD1, BD3,

Info for manual annotations of cluster BD1:

- Start number 10 was manually annotated 18 times for cluster BD1.

Info for manual annotations of cluster BD3:

- Start number 11 was manually annotated 1 time for cluster BD3.

### **Gene Information:**

Gene: Brataylor\_64 Start: 44635, Stop: 44360, Start Num: 10

Candidate Starts for Brataylor\_64:

(2, 44980), (4, 44842), (6, 44788), (8, 44710), (Start: 10 @44635 has 18 MA's), (12, 44623), (13, 44593), (14, 44575), (15, 44560), (23, 44440), (25, 44410),

Gene: Celeste\_63 Start: 44100, Stop: 43825, Start Num: 10

Candidate Starts for Celeste\_63:

(2, 44445), (4, 44307), (6, 44253), (8, 44175), (Start: 10 @44100 has 18 MA's), (12, 44088), (13, 44058), (14, 44040), (15, 44025), (23, 43905),

Gene: Danzina\_63 Start: 44349, Stop: 44074, Start Num: 10

Candidate Starts for Danzina\_63:

(2, 44694), (4, 44556), (6, 44502), (8, 44424), (Start: 10 @44349 has 18 MA's), (12, 44337), (13, 44307), (14, 44289), (15, 44274), (23, 44154), (25, 44124),

Gene: Dattran\_64 Start: 44491, Stop: 44216, Start Num: 10

Candidate Starts for Dattran\_64:

(2, 44836), (4, 44698), (6, 44644), (8, 44566), (Start: 10 @44491 has 18 MA's), (12, 44479), (13, 44449), (14, 44431), (15, 44416), (23, 44296),

Gene: Goby\_63 Start: 44947, Stop: 44642, Start Num: 10

Candidate Starts for Goby\_63:

(1, 45328), (2, 45316), (3, 45235), (4, 45154), (6, 45100), (8, 45022), (Start: 10 @44947 has 18 MA's), (12, 44935), (15, 44872), (18, 44803), (20, 44764), (22, 44725),

Gene: Godpower\_63 Start: 44223, Stop: 43918, Start Num: 10

Candidate Starts for Godpower\_63:

(2, 44592), (4, 44430), (6, 44376), (7, 44325), (8, 44298), (Start: 10 @44223 has 18 MA's), (12, 44211), (15, 44148), (18, 44079), (22, 44001),

Gene: Katalie\_61 Start: 45367, Stop: 45062, Start Num: 10

Candidate Starts for Katalie\_61:

(Start: 10 @45367 has 18 MA's), (12, 45355), (14, 45307), (21, 45169), (22, 45145),

Gene: Lannister\_60 Start: 43737, Stop: 43432, Start Num: 10

Candidate Starts for Lannister\_60:

(8, 43812), (Start: 10 @43737 has 18 MA's), (12, 43725), (13, 43695), (14, 43677), (22, 43515),

Gene: Lika\_62 Start: 44776, Stop: 44471, Start Num: 10

Candidate Starts for Lika\_62:

(2, 45145), (4, 44983), (6, 44929), (7, 44878), (8, 44851), (Start: 10 @44776 has 18 MA's), (12, 44764), (15, 44701), (18, 44632), (22, 44554), (26, 44518),

Gene: Lorelei\_62 Start: 44107, Stop: 43832, Start Num: 10

Candidate Starts for Lorelei\_62:

(2, 44452), (4, 44314), (5, 44308), (6, 44260), (7, 44209), (8, 44182), (Start: 10 @44107 has 18 MA's), (12, 44095), (13, 44065), (14, 44047), (15, 44032), (16, 44008), (23, 43912), (25, 43882),

Gene: Nabi\_63 Start: 44640, Stop: 44365, Start Num: 10

Candidate Starts for Nabi\_63:

(2, 45021), (4, 44847), (6, 44793), (8, 44715), (Start: 10 @44640 has 18 MA's), (12, 44628), (14, 44580), (15, 44565), (23, 44445), (25, 44415),

Gene: Nanodon\_62 Start: 43761, Stop: 43456, Start Num: 10

Candidate Starts for Nanodon\_62:

(Start: 10 @43761 has 18 MA's), (12, 43749), (14, 43701), (15, 43686), (17, 43641), (19, 43602), (22, 43539),

Gene: Rana\_63 Start: 44529, Stop: 44254, Start Num: 10

Candidate Starts for Rana\_63:

(2, 44874), (4, 44736), (5, 44730), (6, 44682), (7, 44631), (8, 44604), (Start: 10 @44529 has 18 MA's), (12, 44517), (13, 44487), (14, 44469), (15, 44454), (16, 44430), (23, 44334), (25, 44304),

Gene: RedBear\_62 Start: 45367, Stop: 45062, Start Num: 10

Candidate Starts for RedBear\_62:

(Start: 10 @45367 has 18 MA's), (12, 45355), (14, 45307), (21, 45169), (22, 45145),

Gene: South40\_61 Start: 45367, Stop: 45062, Start Num: 10

Candidate Starts for South40\_61:

(Start: 10 @45367 has 18 MA's), (12, 45355), (14, 45307), (21, 45169), (22, 45145),

Gene: Sujidade\_63 Start: 45011, Stop: 44706, Start Num: 10

Candidate Starts for Sujidade\_63:

(2, 45380), (4, 45218), (6, 45164), (7, 45113), (8, 45086), (Start: 10 @45011 has 18 MA's), (12, 44999), (15, 44936), (18, 44867), (22, 44789),

Gene: Toma\_63 Start: 44950, Stop: 44645, Start Num: 10

Candidate Starts for Toma\_63:

(1, 45331), (2, 45319), (3, 45238), (4, 45157), (6, 45103), (8, 45025), (Start: 10 @44950 has 18 MA's), (12, 44938), (15, 44875), (18, 44806), (20, 44767), (22, 44728),

Gene: Yosif\_66 Start: 43401, Stop: 43141, Start Num: 11

Candidate Starts for Yosif\_66:

(9, 43479), (Start: 11 @43401 has 1 MA's), (23, 43221), (24, 43197), (25, 43191),

Gene: Zemlya\_63 Start: 44654, Stop: 44379, Start Num: 10

Candidate Starts for Zemlya\_63:

(2, 44999), (4, 44861), (6, 44807), (8, 44729), (Start: 10 @44654 has 18 MA's), (12, 44642), (13, 44612), (14, 44594), (15, 44579), (23, 44459), (25, 44429),