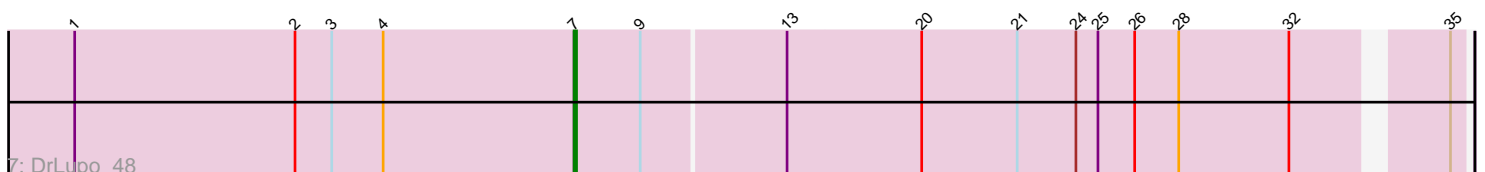
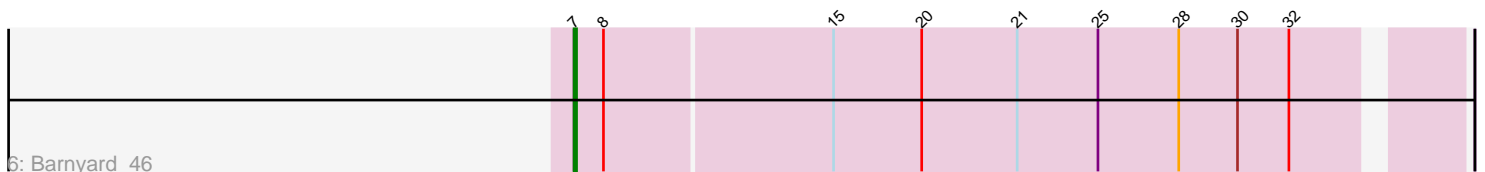
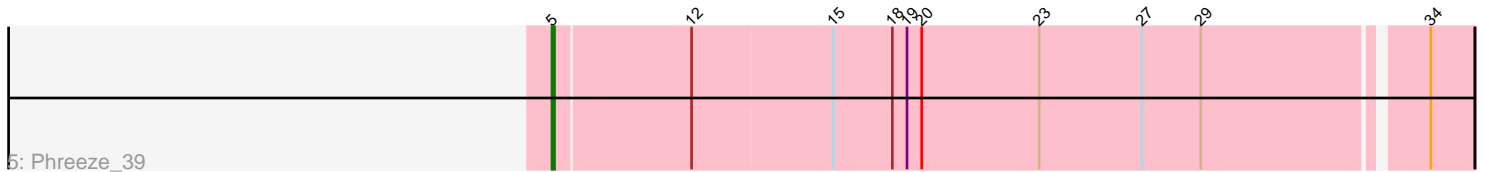
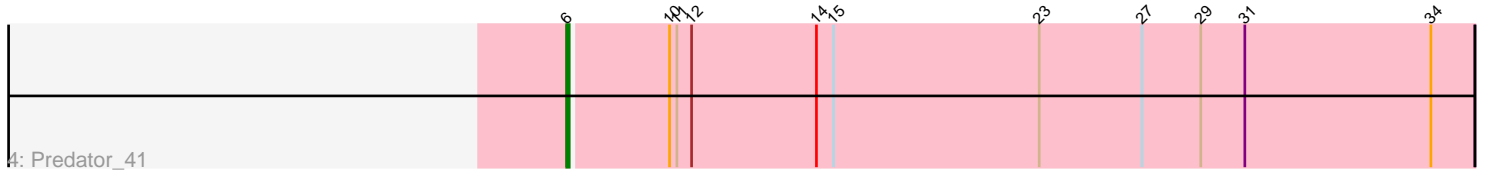
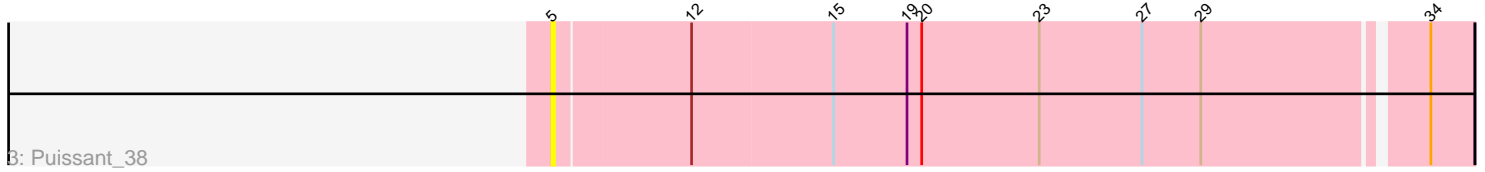
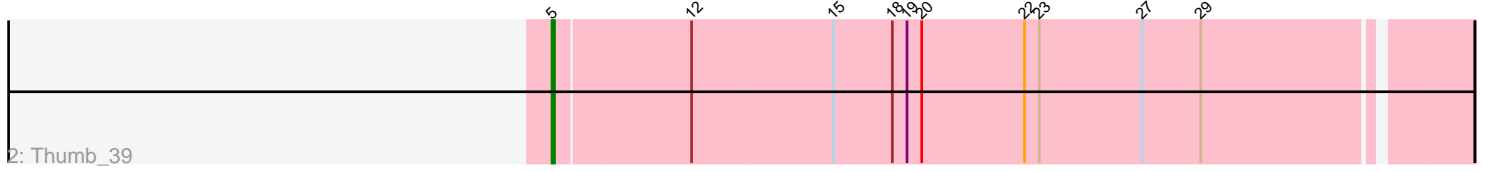
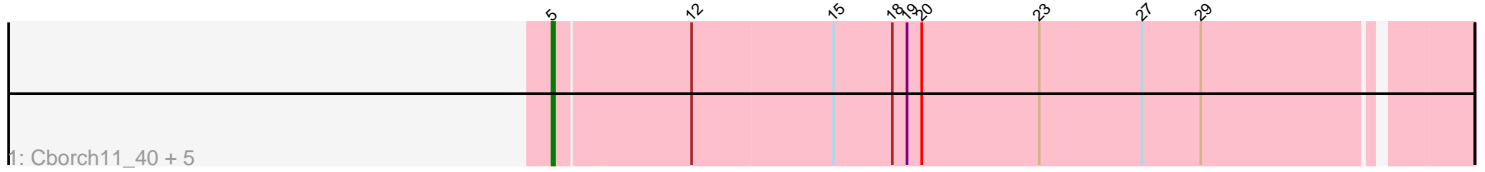


# Pham 198490



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 198490 Report

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

Pham number 198490 has 15 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Cborch11\_40, Damien\_39, Oaker\_39, Megatron06\_41, Beckerton\_39, Konstantine\_44
- Track 2 : Thumb\_39
- Track 3 : Puissant\_38
- Track 4 : Predator\_41
- Track 5 : Phreeze\_39
- Track 6 : Barnyard\_46
- Track 7 : DrLupo\_48
- Track 8 : Patience\_46
- Track 9 : Madruga\_44, Labelle\_45

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

The start number called the most often in the published annotations is 5, it was called in 11 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beckerton\_39, Cborch11\_40, Damien\_39, Konstantine\_44, Labelle\_45, Madruga\_44, Megatron06\_41, Oaker\_39, Patience\_46, Phreeze\_39, Puissant\_38, Thumb\_39,

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

- 

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

- Barnyard\_46, DrLupo\_48, Predator\_41,

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

Start 5:

- Found in 12 of 15 ( 80.0% ) of genes in pham
- Manual Annotations of this start: 11 of 14
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Beckerton\_39 (H1), Cborch11\_40 (H1), Damien\_39 (H1), Konstantine\_44 (H1), Labelle\_45 (U), Madrugá\_44 (U), Megatron06\_41 (H1), Oaker\_39 (H1), Patience\_46 (U), Phreeze\_39 (H1), Puissant\_38 (H1), Thumb\_39 (H1),

#### Start 6:

- Found in 1 of 15 ( 6.7% ) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Predator\_41 (H1),

#### Start 7:

- Found in 2 of 15 ( 13.3% ) of genes in pham
- Manual Annotations of this start: 2 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Barnyard\_46 (H2), DrLupo\_48 (H2),

### **Summary by clusters:**

There are 3 clusters represented in this pham: H2, H1, U,

Info for manual annotations of cluster H1:

- Start number 5 was manually annotated 8 times for cluster H1.
- Start number 6 was manually annotated 1 time for cluster H1.

Info for manual annotations of cluster H2:

- Start number 7 was manually annotated 2 times for cluster H2.

Info for manual annotations of cluster U:

- Start number 5 was manually annotated 3 times for cluster U.

### **Gene Information:**

Gene: Barnyard\_46 Start: 35709, Stop: 36056, Start Num: 7

Candidate Starts for Barnyard\_46:

(Start: 7 @35709 has 2 MA's), (8, 35721), (15, 35811), (20, 35847), (21, 35886), (25, 35919), (28, 35952), (30, 35976), (32, 35997),

Gene: Beckerton\_39 Start: 35623, Stop: 35985, Start Num: 5

Candidate Starts for Beckerton\_39:

(Start: 5 @35623 has 11 MA's), (12, 35677), (15, 35734), (18, 35758), (19, 35764), (20, 35770), (23, 35818), (27, 35860), (29, 35884),

Gene: Cborch11\_40 Start: 35088, Stop: 35450, Start Num: 5

Candidate Starts for Cborch11\_40:

(Start: 5 @35088 has 11 MA's), (12, 35142), (15, 35199), (18, 35223), (19, 35229), (20, 35235), (23, 35283), (27, 35325), (29, 35349),

Gene: Damien\_39 Start: 35089, Stop: 35451, Start Num: 5

Candidate Starts for Damien\_39:

(Start: 5 @35089 has 11 MA's), (12, 35143), (15, 35200), (18, 35224), (19, 35230), (20, 35236), (23, 35284), (27, 35326), (29, 35350),

Gene: DrLupo\_48 Start: 36073, Stop: 36420, Start Num: 7

Candidate Starts for DrLupo\_48:

(1, 35869), (2, 35959), (3, 35974), (4, 35995), (Start: 7 @36073 has 2 MA's), (9, 36100), (13, 36157), (20, 36211), (21, 36250), (24, 36274), (25, 36283), (26, 36298), (28, 36316), (32, 36361), (35, 36415),

Gene: Konstantine\_44 Start: 36290, Stop: 36652, Start Num: 5

Candidate Starts for Konstantine\_44:

(Start: 5 @36290 has 11 MA's), (12, 36344), (15, 36401), (18, 36425), (19, 36431), (20, 36437), (23, 36485), (27, 36527), (29, 36551),

Gene: Labelle\_45 Start: 37483, Stop: 37818, Start Num: 5

Candidate Starts for Labelle\_45:

(Start: 5 @37483 has 11 MA's), (12, 37540), (16, 37600), (17, 37615), (23, 37681), (28, 37738), (31, 37765), (33, 37801),

Gene: Madruga\_44 Start: 37151, Stop: 37492, Start Num: 5

Candidate Starts for Madruga\_44:

(Start: 5 @37151 has 11 MA's), (12, 37208), (16, 37268), (17, 37283), (23, 37349), (28, 37406), (31, 37433), (33, 37469),

Gene: Megatron06\_41 Start: 35622, Stop: 35984, Start Num: 5

Candidate Starts for Megatron06\_41:

(Start: 5 @35622 has 11 MA's), (12, 35676), (15, 35733), (18, 35757), (19, 35763), (20, 35769), (23, 35817), (27, 35859), (29, 35883),

Gene: Oaker\_39 Start: 35346, Stop: 35708, Start Num: 5

Candidate Starts for Oaker\_39:

(Start: 5 @35346 has 11 MA's), (12, 35400), (15, 35457), (18, 35481), (19, 35487), (20, 35493), (23, 35541), (27, 35583), (29, 35607),

Gene: Patience\_46 Start: 38032, Stop: 38349, Start Num: 5

Candidate Starts for Patience\_46:

(Start: 5 @38032 has 11 MA's), (12, 38089), (16, 38149), (17, 38164), (23, 38230), (28, 38287), (31, 38314),

Gene: Phreeze\_39 Start: 35089, Stop: 35451, Start Num: 5

Candidate Starts for Phreeze\_39:

(Start: 5 @35089 has 11 MA's), (12, 35143), (15, 35200), (18, 35224), (19, 35230), (20, 35236), (23, 35284), (27, 35326), (29, 35350), (34, 35434),

Gene: Predator\_41 Start: 34274, Stop: 34639, Start Num: 6

Candidate Starts for Predator\_41:

(Start: 6 @34274 has 1 MA's), (10, 34313), (11, 34316), (12, 34322), (14, 34373), (15, 34379), (23, 34463), (27, 34505), (29, 34529), (31, 34547), (34, 34622),

Gene: Puissant\_38 Start: 35577, Stop: 35939, Start Num: 5

Candidate Starts for Puissant\_38:

(Start: 5 @35577 has 11 MA's), (12, 35631), (15, 35688), (19, 35718), (20, 35724), (23, 35772), (27, 35814), (29, 35838), (34, 35922),

Gene: Thumb\_39 Start: 35086, Stop: 35448, Start Num: 5

Candidate Starts for Thumb\_39:

(Start: 5 @35086 has 11 MA's), (12, 35140), (15, 35197), (18, 35221), (19, 35227), (20, 35233), (22, 35275), (23, 35281), (27, 35323), (29, 35347),