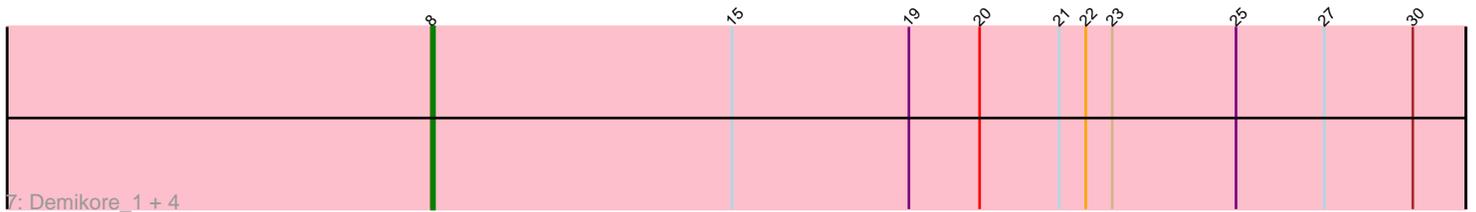
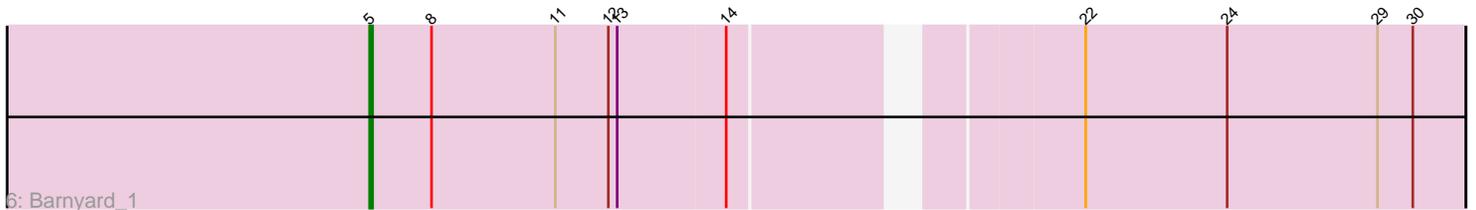
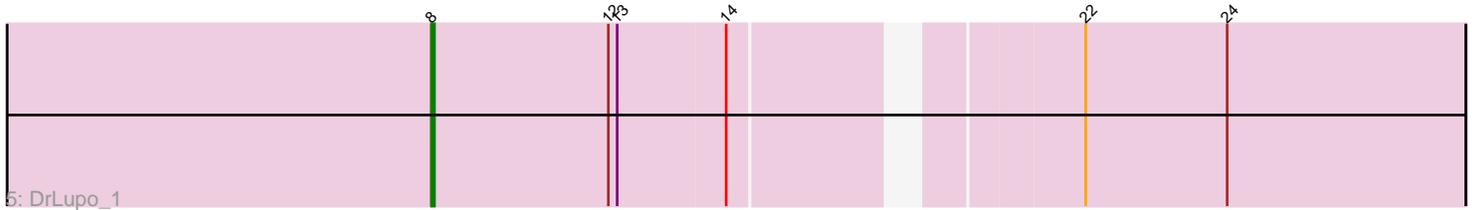
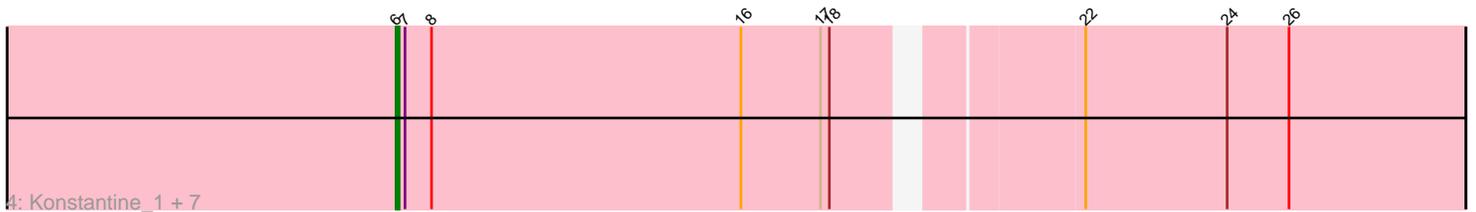
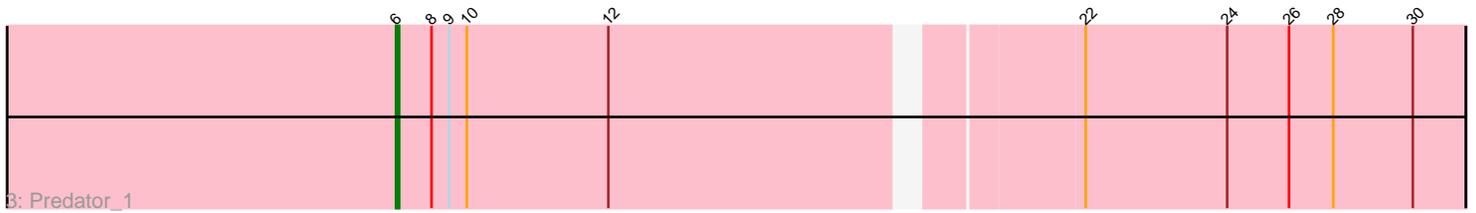


Pham 288245



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 288245 Report

This analysis was run 03/28/26 on database version 641.

Pham number 288245 has 18 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Puissant_97
- Track 2 : Megatron06_1
- Track 3 : Predator_1
- Track 4 : Konstantine_1, BobtimousPrime_1, Beckerton_1, Thumb_1, Cborch11_1, Damien_1, Oaker_1, Phreeze_1
- Track 5 : DrLupo_1
- Track 6 : Barnyard_1
- Track 7 : Demikore_1, Labelle_1, SuperSonics_1, Madruga_1, Patience_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 9 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beckerton_1, BobtimousPrime_1, Cborch11_1, Damien_1, Konstantine_1, Megatron06_1, Oaker_1, Phreeze_1, Predator_1, Thumb_1,

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

- Puissant_97,

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

- Barnyard_1, Demikore_1, DrLupo_1, Labelle_1, Madruga_1, Patience_1, SuperSonics_1,

Summary by start number:

Start 4:

- Found in 1 of 18 (5.6%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Puissant_97 (H1),

Start 5:

- Found in 2 of 18 (11.1%) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Barnyard_1 (H2),

Start 6:

- Found in 11 of 18 (61.1%) of genes in pham
- Manual Annotations of this start: 9 of 14
- Called 90.9% of time when present
- Phage (with cluster) where this start called: Beckerton_1 (H1), BobtimousPrime_1 (H1), Cborch11_1 (H1), Damien_1 (H1), Konstantine_1 (H1), Megatron06_1 (H1), Oaker_1 (H1), Phreeze_1 (H1), Predator_1 (H1), Thumb_1 (H1),

Start 8:

- Found in 18 of 18 (100.0%) of genes in pham
- Manual Annotations of this start: 4 of 14
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Demikore_1 (U), DrLupo_1 (H2), Labelle_1 (U), Madruga_1 (U), Patience_1 (U), SuperSonics_1 (U),

Summary by clusters:

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

Info for manual annotations of cluster H1:

- Start number 6 was manually annotated 9 times for cluster H1.

Info for manual annotations of cluster H2:

- Start number 5 was manually annotated 1 time for cluster H2.
- Start number 8 was manually annotated 1 time for cluster H2.

Info for manual annotations of cluster U:

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

Gene Information:

Gene: Barnyard_1 Start: 1, Stop: 351, Start Num: 5

Candidate Starts for Barnyard_1:

(Start: 5 @1 has 1 MA's), (Start: 8 @22 has 4 MA's), (11, 64), (12, 82), (13, 85), (14, 121), (22, 223), (24, 271), (29, 322), (30, 334),

Gene: Beckerton_1 Start: 1, Stop: 348, Start Num: 6

Candidate Starts for Beckerton_1:

(Start: 6 @1 has 9 MA's), (7, 4), (Start: 8 @13 has 4 MA's), (16, 118), (17, 145), (18, 148), (22, 220), (24, 268), (26, 289),

Gene: BobtimousPrime_1 Start: 1, Stop: 348, Start Num: 6

Candidate Starts for BobtimousPrime_1:

(Start: 6 @1 has 9 MA's), (7, 4), (Start: 8 @13 has 4 MA's), (16, 118), (17, 145), (18, 148), (22, 220), (24, 268), (26, 289),

Gene: Cborch11_1 Start: 1, Stop: 348, Start Num: 6

Candidate Starts for Cborch11_1:

(Start: 6 @1 has 9 MA's), (7, 4), (Start: 8 @13 has 4 MA's), (16, 118), (17, 145), (18, 148), (22, 220), (24, 268), (26, 289),

Gene: Damien_1 Start: 1, Stop: 348, Start Num: 6

Candidate Starts for Damien_1:

(Start: 6 @1 has 9 MA's), (7, 4), (Start: 8 @13 has 4 MA's), (16, 118), (17, 145), (18, 148), (22, 220), (24, 268), (26, 289),

Gene: Demikore_1 Start: 1, Stop: 351, Start Num: 8

Candidate Starts for Demikore_1:

(Start: 8 @1 has 4 MA's), (15, 103), (19, 163), (20, 187), (21, 214), (22, 223), (23, 232), (25, 274), (27, 304), (30, 334),

Gene: DrLupo_1 Start: 1, Stop: 330, Start Num: 8

Candidate Starts for DrLupo_1:

(Start: 8 @1 has 4 MA's), (12, 61), (13, 64), (14, 100), (22, 202), (24, 250),

Gene: Konstantine_1 Start: 1, Stop: 348, Start Num: 6

Candidate Starts for Konstantine_1:

(Start: 6 @1 has 9 MA's), (7, 4), (Start: 8 @13 has 4 MA's), (16, 118), (17, 145), (18, 148), (22, 220), (24, 268), (26, 289),

Gene: Labelle_1 Start: 1, Stop: 351, Start Num: 8

Candidate Starts for Labelle_1:

(Start: 8 @1 has 4 MA's), (15, 103), (19, 163), (20, 187), (21, 214), (22, 223), (23, 232), (25, 274), (27, 304), (30, 334),

Gene: Madruga_1 Start: 1, Stop: 351, Start Num: 8

Candidate Starts for Madruga_1:

(Start: 8 @1 has 4 MA's), (15, 103), (19, 163), (20, 187), (21, 214), (22, 223), (23, 232), (25, 274), (27, 304), (30, 334),

Gene: Megatron06_1 Start: 1, Stop: 348, Start Num: 6

Candidate Starts for Megatron06_1:

(Start: 6 @1 has 9 MA's), (7, 4), (Start: 8 @13 has 4 MA's), (17, 145), (18, 148), (22, 220), (24, 268), (26, 289),

Gene: Oaker_1 Start: 1, Stop: 348, Start Num: 6

Candidate Starts for Oaker_1:

(Start: 6 @1 has 9 MA's), (7, 4), (Start: 8 @13 has 4 MA's), (16, 118), (17, 145), (18, 148), (22, 220), (24, 268), (26, 289),

Gene: Patience_1 Start: 1, Stop: 351, Start Num: 8

Candidate Starts for Patience_1:

(Start: 8 @1 has 4 MA's), (15, 103), (19, 163), (20, 187), (21, 214), (22, 223), (23, 232), (25, 274), (27, 304), (30, 334),

Gene: Phreeze_1 Start: 1, Stop: 348, Start Num: 6

Candidate Starts for Phreeze_1:

(Start: 6 @1 has 9 MA's), (7, 4), (Start: 8 @13 has 4 MA's), (16, 118), (17, 145), (18, 148), (22, 220), (24, 268), (26, 289),

Gene: Predator_1 Start: 1, Stop: 348, Start Num: 6

Candidate Starts for Predator_1:

(Start: 6 @1 has 9 MA's), (Start: 8 @13 has 4 MA's), (9, 19), (10, 25), (12, 73), (22, 220), (24, 268), (26, 289), (28, 304), (30, 331),

Gene: Puissant_97 Start: 69332, Stop: 348, Start Num: 4

Candidate Starts for Puissant_97:

(1, 69230), (2, 69284), (3, 69302), (4, 69332), (Start: 5 @69341 has 1 MA's), (Start: 6 @69350 has 9 MA's), (Start: 8 @69362 has 4 MA's), (10, 69374), (17, 69494), (18, 69497), (22, 69569), (24, 69617), (30, 69680),

Gene: SuperSonics_1 Start: 1, Stop: 351, Start Num: 8

Candidate Starts for SuperSonics_1:

(Start: 8 @1 has 4 MA's), (15, 103), (19, 163), (20, 187), (21, 214), (22, 223), (23, 232), (25, 274), (27, 304), (30, 334),

Gene: Thumb_1 Start: 1, Stop: 348, Start Num: 6

Candidate Starts for Thumb_1:

(Start: 6 @1 has 9 MA's), (7, 4), (Start: 8 @13 has 4 MA's), (16, 118), (17, 145), (18, 148), (22, 220), (24, 268), (26, 289),