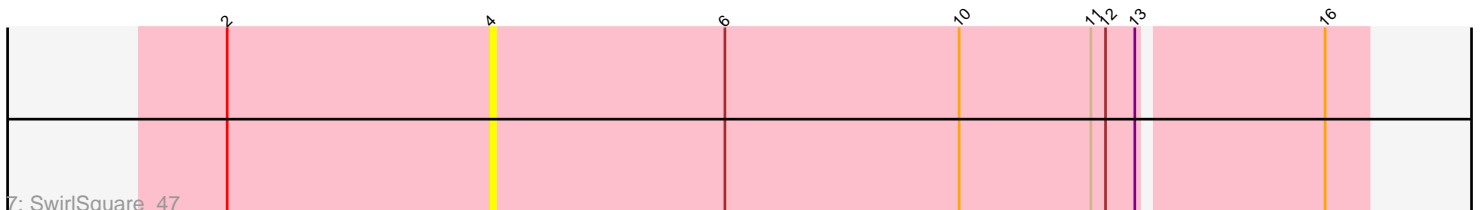
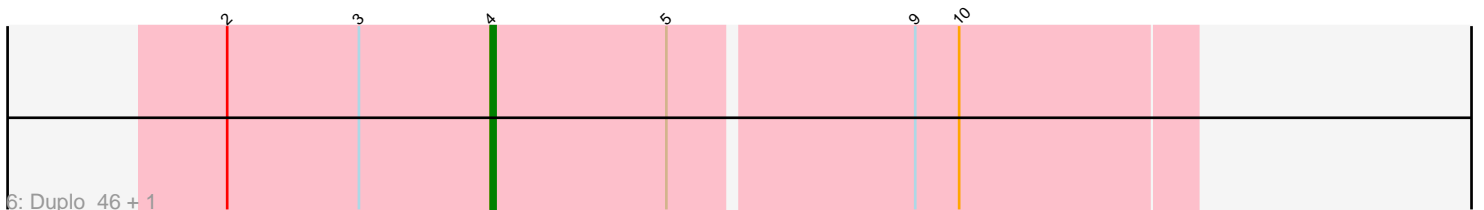
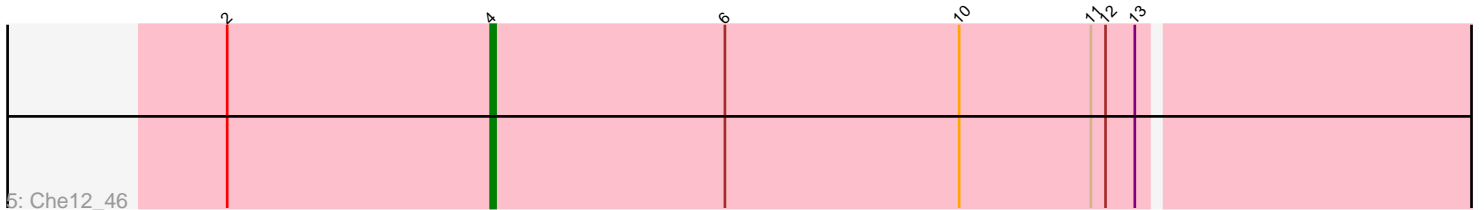
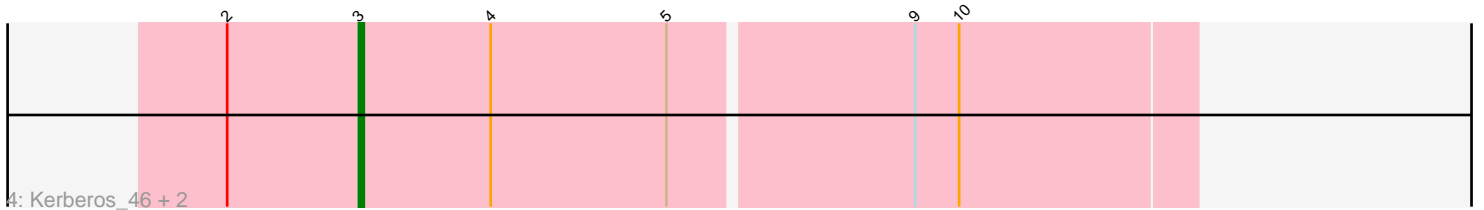
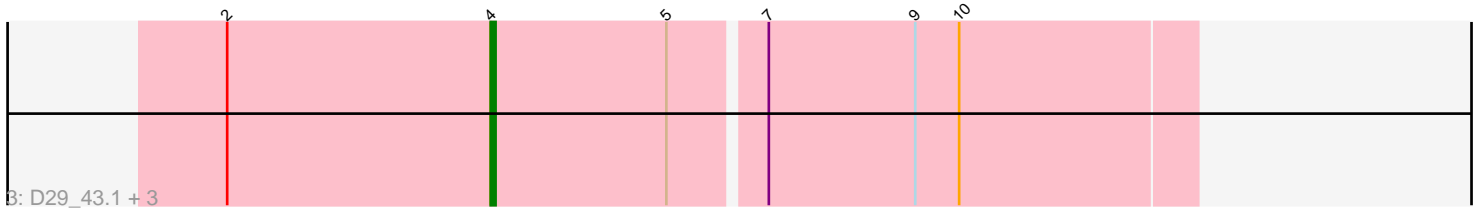
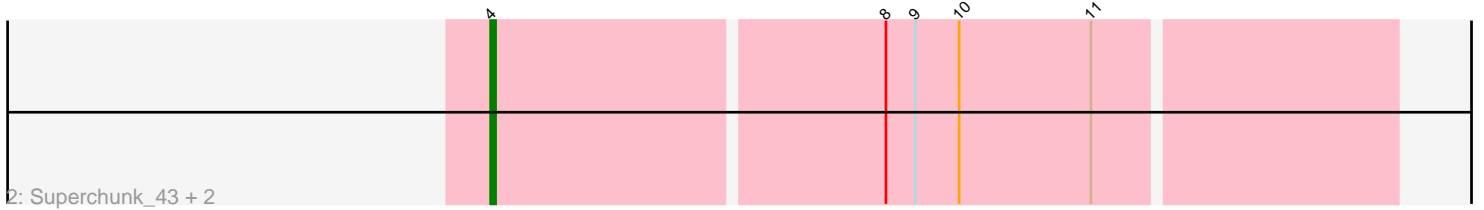
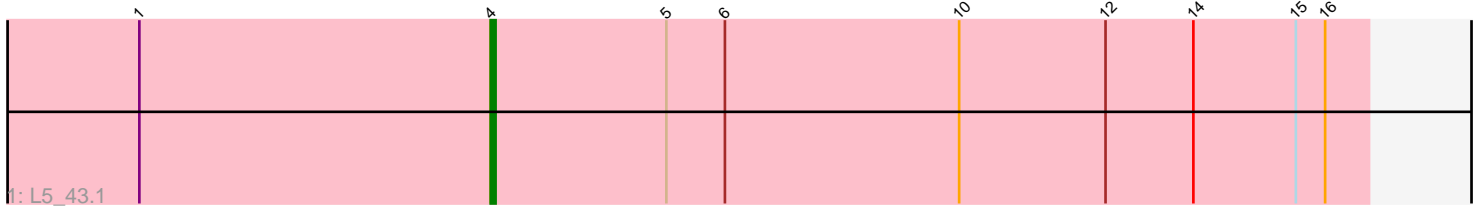


Pham 164007



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 164007 Report

This analysis was run 04/28/24 on database version 559.

Pham number 164007 has 15 members, 2 are drafts.

Phages represented in each track:

- Track 1 : L5_43.1
- Track 2 : Superchunk_43, Caraxes_44, Odin_43
- Track 3 : D29_43.1, D32_46, Naji_46, StarStuff_46
- Track 4 : Kerberos_46, DBQu4n_46, Tomathan_46
- Track 5 : Che12_46
- Track 6 : Duplo_46, Pomar16_46
- Track 7 : SwirlSquare_47

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 10 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Caraxes_44, Che12_46, D29_43.1, D32_46, Duplo_46, L5_43.1, Naji_46, Odin_43, Pomar16_46, StarStuff_46, Superchunk_43, SwirlSquare_47,

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

- DBQu4n_46, Kerberos_46, Tomathan_46,

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

-

Summary by start number:

Start 3:

- Found in 5 of 15 (33.3%) of genes in pham
- Manual Annotations of this start: 3 of 13
- Called 60.0% of time when present
- Phage (with cluster) where this start called: DBQu4n_46 (A2), Kerberos_46 (A2), Tomathan_46 (A2),

Start 4:

- Found in 15 of 15 (100.0%) of genes in pham

- Manual Annotations of this start: 10 of 13
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Caraxes_44 (A2), Che12_46 (A2), D29_43.1 (A2), D32_46 (A2), Duplo_46 (A2), L5_43.1 (A2), Naji_46 (A2), Odin_43 (A2), Pomar16_46 (A2), StarStuff_46 (A2), Superchunk_43 (A2), SwirlSquare_47 (A2),

Summary by clusters:

There is one cluster represented in this pham: A2

Info for manual annotations of cluster A2:

- Start number 3 was manually annotated 3 times for cluster A2.
- Start number 4 was manually annotated 10 times for cluster A2.

Gene Information:

Gene: Caraxes_44 Start: 28181, Stop: 28002, Start Num: 4

Candidate Starts for Caraxes_44:

(Start: 4 @28181 has 10 MA's), (8, 28103), (9, 28097), (10, 28088), (11, 28061),

Gene: Che12_46 Start: 28652, Stop: 28452, Start Num: 4

Candidate Starts for Che12_46:

(2, 28706), (Start: 4 @28652 has 10 MA's), (6, 28604), (10, 28556), (11, 28529), (12, 28526), (13, 28520),

Gene: D29_43.1 Start: 29319, Stop: 29179, Start Num: 4

Candidate Starts for D29_43.1:

(2, 29373), (Start: 4 @29319 has 10 MA's), (5, 29283), (7, 29265), (9, 29235), (10, 29226),

Gene: D32_46 Start: 29319, Stop: 29179, Start Num: 4

Candidate Starts for D32_46:

(2, 29373), (Start: 4 @29319 has 10 MA's), (5, 29283), (7, 29265), (9, 29235), (10, 29226),

Gene: DBQu4n_46 Start: 29346, Stop: 29179, Start Num: 3

Candidate Starts for DBQu4n_46:

(2, 29373), (Start: 3 @29346 has 3 MA's), (Start: 4 @29319 has 10 MA's), (5, 29283), (9, 29235), (10, 29226),

Gene: Duplo_46 Start: 29357, Stop: 29217, Start Num: 4

Candidate Starts for Duplo_46:

(2, 29411), (Start: 3 @29384 has 3 MA's), (Start: 4 @29357 has 10 MA's), (5, 29321), (9, 29273), (10, 29264),

Gene: Kerberos_46 Start: 29346, Stop: 29179, Start Num: 3

Candidate Starts for Kerberos_46:

(2, 29373), (Start: 3 @29346 has 3 MA's), (Start: 4 @29319 has 10 MA's), (5, 29283), (9, 29235), (10, 29226),

Gene: L5_43.1 Start: 28678, Stop: 28499, Start Num: 4

Candidate Starts for L5_43.1:

(1, 28750), (Start: 4 @28678 has 10 MA's), (5, 28642), (6, 28630), (10, 28582), (12, 28552), (14, 28534), (15, 28513), (16, 28507),

Gene: Naji_46 Start: 29319, Stop: 29179, Start Num: 4

Candidate Starts for Naji_46:

(2, 29373), (Start: 4 @29319 has 10 MA's), (5, 29283), (7, 29265), (9, 29235), (10, 29226),

Gene: Odin_43 Start: 28354, Stop: 28175, Start Num: 4

Candidate Starts for Odin_43:

(Start: 4 @28354 has 10 MA's), (8, 28276), (9, 28270), (10, 28261), (11, 28234),

Gene: Pomar16_46 Start: 29360, Stop: 29220, Start Num: 4

Candidate Starts for Pomar16_46:

(2, 29414), (Start: 3 @29387 has 3 MA's), (Start: 4 @29360 has 10 MA's), (5, 29324), (9, 29276), (10, 29267),

Gene: StarStuff_46 Start: 29322, Stop: 29182, Start Num: 4

Candidate Starts for StarStuff_46:

(2, 29376), (Start: 4 @29322 has 10 MA's), (5, 29286), (7, 29268), (9, 29238), (10, 29229),

Gene: Superchunk_43 Start: 28181, Stop: 28002, Start Num: 4

Candidate Starts for Superchunk_43:

(Start: 4 @28181 has 10 MA's), (8, 28103), (9, 28097), (10, 28088), (11, 28061),

Gene: SwirlSquare_47 Start: 28448, Stop: 28272, Start Num: 4

Candidate Starts for SwirlSquare_47:

(2, 28502), (Start: 4 @28448 has 10 MA's), (6, 28400), (10, 28352), (11, 28325), (12, 28322), (13, 28316), (16, 28280),

Gene: Tomathan_46 Start: 29346, Stop: 29179, Start Num: 3

Candidate Starts for Tomathan_46:

(2, 29373), (Start: 3 @29346 has 3 MA's), (Start: 4 @29319 has 10 MA's), (5, 29283), (9, 29235), (10, 29226),