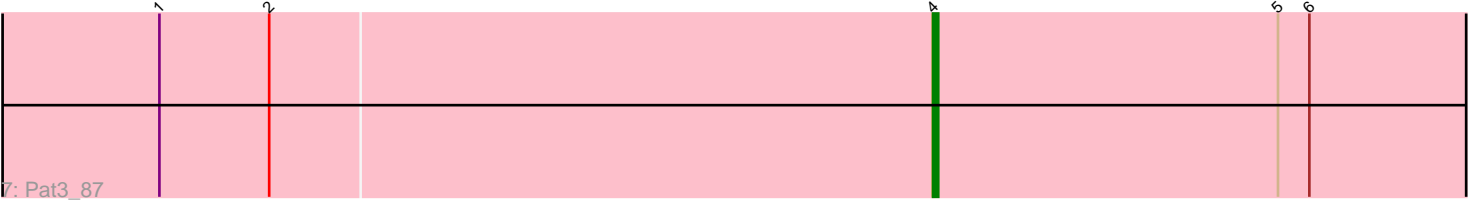
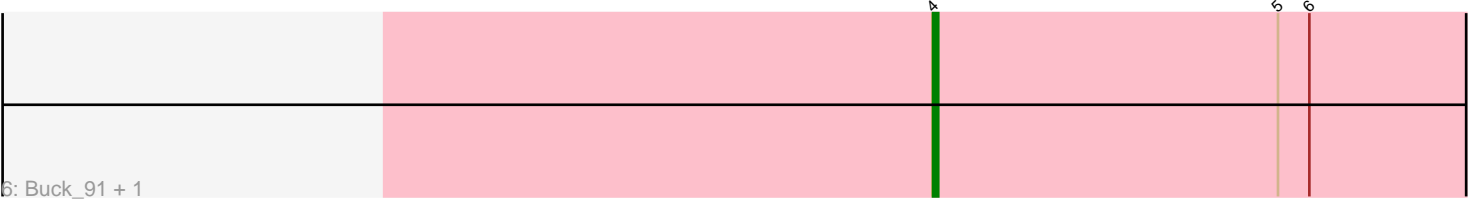
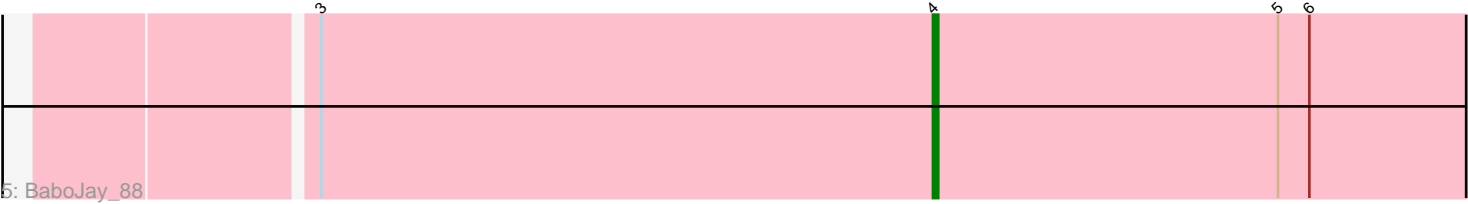
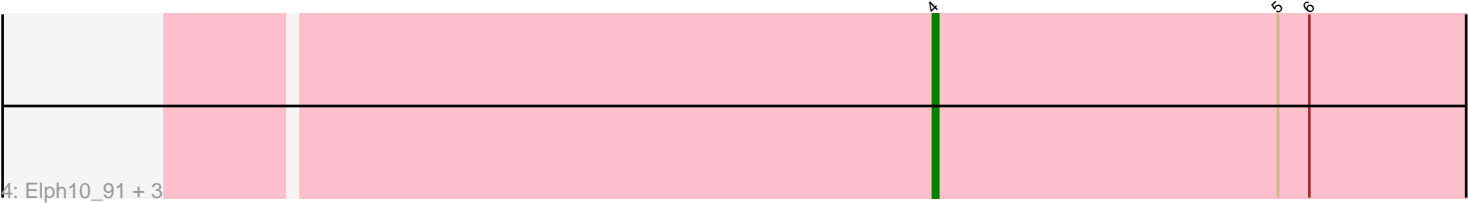
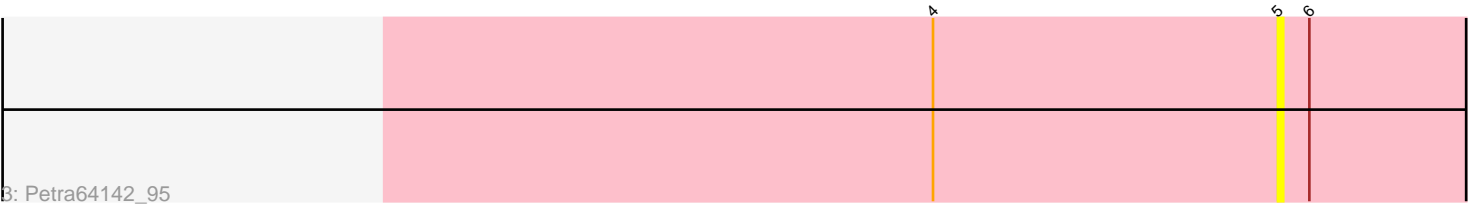


Pham 4035



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 4035 Report

This analysis was run 04/05/24 on database version 557.

Pham number 4035 has 18 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Hopey\_91, Pumpkin\_94, Filch\_92, RiverMonster\_91, Cjw1\_91, Stark\_92, Phaux\_93, Maxxinista\_93
- Track 2 : Lilac\_93
- Track 3 : Petra64142\_95
- Track 4 : Elph10\_91, Phrux\_88, HanKaySha\_91, Thresher\_93
- Track 5 : BaboJay\_88
- Track 6 : Buck\_91, JeTaime\_91
- Track 7 : Pat3\_87

### ***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 17 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BaboJay\_88, Buck\_91, Cjw1\_91, Elph10\_91, Filch\_92, HanKaySha\_91, Hopey\_91, JeTaime\_91, Lilac\_93, Maxxinista\_93, Pat3\_87, Phaux\_93, Phrux\_88, Pumpkin\_94, RiverMonster\_91, Stark\_92, Thresher\_93,

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

- Petra64142\_95,

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

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

Start 4:

- Found in 18 of 18 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 17 of 17
- Called 94.4% of time when present
- Phage (with cluster) where this start called: BaboJay\_88 (E), Buck\_91 (E), Cjw1\_91 (E), Elph10\_91 (E), Filch\_92 (E), HanKaySha\_91 (E), Hopey\_91 (E), JeTaime\_91 (E), Lilac\_93 (E), Maxxinista\_93 (E), Pat3\_87 (E), Phaux\_93 (E), Phrux\_88 (E),

Pumpkin\_94 (E), RiverMonster\_91 (E), Stark\_92 (E), Thresher\_93 (E),

Start 5:

- Found in 18 of 18 ( 100.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 5.6% of time when present
- Phage (with cluster) where this start called: Petra64142\_95 (E),

### **Summary by clusters:**

There is one cluster represented in this pham: E

Info for manual annotations of cluster E:

- Start number 4 was manually annotated 17 times for cluster E.

### **Gene Information:**

Gene: BaboJay\_88 Start: 54366, Stop: 54638, Start Num: 4

Candidate Starts for BaboJay\_88:

(3, 54249), (Start: 4 @54366 has 17 MA's), (5, 54432), (6, 54438),

Gene: Buck\_91 Start: 54900, Stop: 55172, Start Num: 4

Candidate Starts for Buck\_91:

(Start: 4 @54900 has 17 MA's), (5, 54966), (6, 54972),

Gene: Cjw1\_91 Start: 55667, Stop: 55939, Start Num: 4

Candidate Starts for Cjw1\_91:

(Start: 4 @55667 has 17 MA's), (5, 55733), (6, 55739),

Gene: Elph10\_91 Start: 53695, Stop: 53967, Start Num: 4

Candidate Starts for Elph10\_91:

(Start: 4 @53695 has 17 MA's), (5, 53761), (6, 53767),

Gene: Filch\_92 Start: 53900, Stop: 54172, Start Num: 4

Candidate Starts for Filch\_92:

(Start: 4 @53900 has 17 MA's), (5, 53966), (6, 53972),

Gene: HanKaySha\_91 Start: 53775, Stop: 54047, Start Num: 4

Candidate Starts for HanKaySha\_91:

(Start: 4 @53775 has 17 MA's), (5, 53841), (6, 53847),

Gene: Hopey\_91 Start: 54586, Stop: 54858, Start Num: 4

Candidate Starts for Hopey\_91:

(Start: 4 @54586 has 17 MA's), (5, 54652), (6, 54658),

Gene: JeTaime\_91 Start: 54938, Stop: 55210, Start Num: 4

Candidate Starts for JeTaime\_91:

(Start: 4 @54938 has 17 MA's), (5, 55004), (6, 55010),

Gene: Lilac\_93 Start: 54177, Stop: 54449, Start Num: 4

Candidate Starts for Lilac\_93:

(Start: 4 @54177 has 17 MA's), (5, 54243), (6, 54249),

Gene: Maxxinista\_93 Start: 54344, Stop: 54616, Start Num: 4

Candidate Starts for Maxxinista\_93:

(Start: 4 @54344 has 17 MA's), (5, 54410), (6, 54416),

Gene: Pat3\_87 Start: 52611, Stop: 52883, Start Num: 4

Candidate Starts for Pat3\_87:

(1, 52464), (2, 52485), (Start: 4 @52611 has 17 MA's), (5, 52677), (6, 52683),

Gene: Petra64142\_95 Start: 55682, Stop: 55888, Start Num: 5

Candidate Starts for Petra64142\_95:

(Start: 4 @55616 has 17 MA's), (5, 55682), (6, 55688),

Gene: Phaux\_93 Start: 55460, Stop: 55732, Start Num: 4

Candidate Starts for Phaux\_93:

(Start: 4 @55460 has 17 MA's), (5, 55526), (6, 55532),

Gene: Phrux\_88 Start: 53736, Stop: 54008, Start Num: 4

Candidate Starts for Phrux\_88:

(Start: 4 @53736 has 17 MA's), (5, 53802), (6, 53808),

Gene: Pumpkin\_94 Start: 55112, Stop: 55384, Start Num: 4

Candidate Starts for Pumpkin\_94:

(Start: 4 @55112 has 17 MA's), (5, 55178), (6, 55184),

Gene: RiverMonster\_91 Start: 54632, Stop: 54904, Start Num: 4

Candidate Starts for RiverMonster\_91:

(Start: 4 @54632 has 17 MA's), (5, 54698), (6, 54704),

Gene: Stark\_92 Start: 54515, Stop: 54787, Start Num: 4

Candidate Starts for Stark\_92:

(Start: 4 @54515 has 17 MA's), (5, 54581), (6, 54587),

Gene: Thresher\_93 Start: 55295, Stop: 55567, Start Num: 4

Candidate Starts for Thresher\_93:

(Start: 4 @55295 has 17 MA's), (5, 55361), (6, 55367),