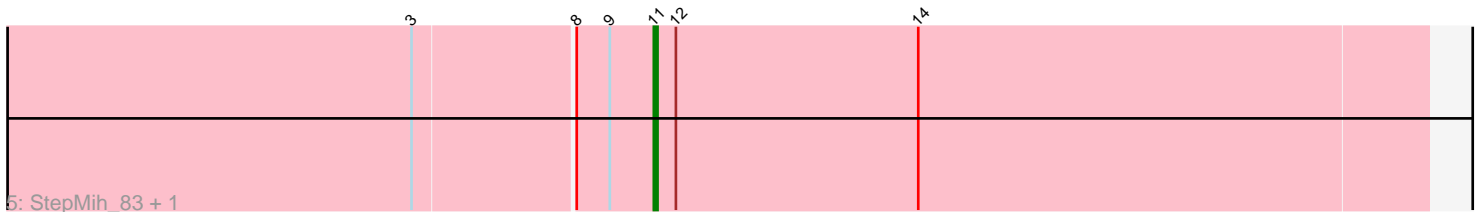
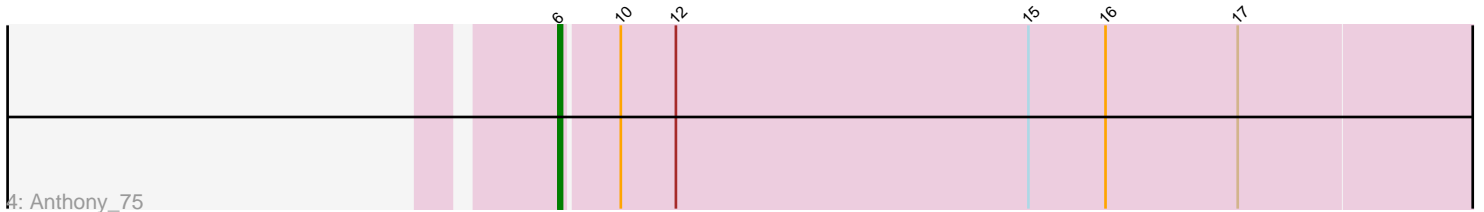
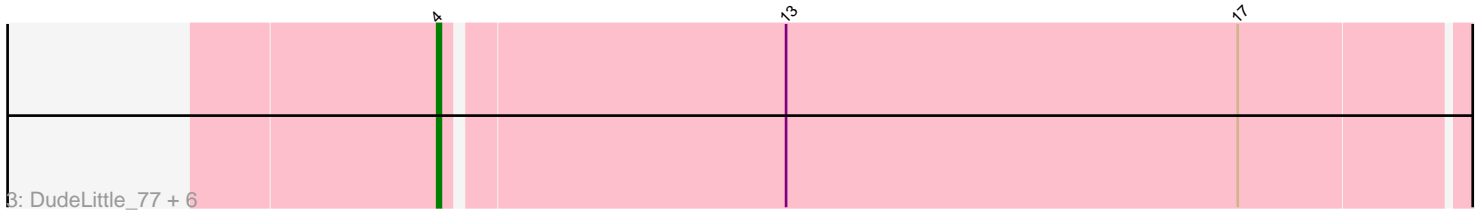
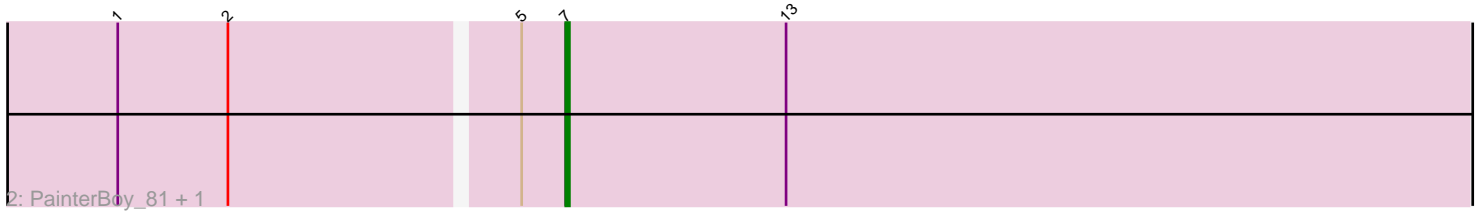
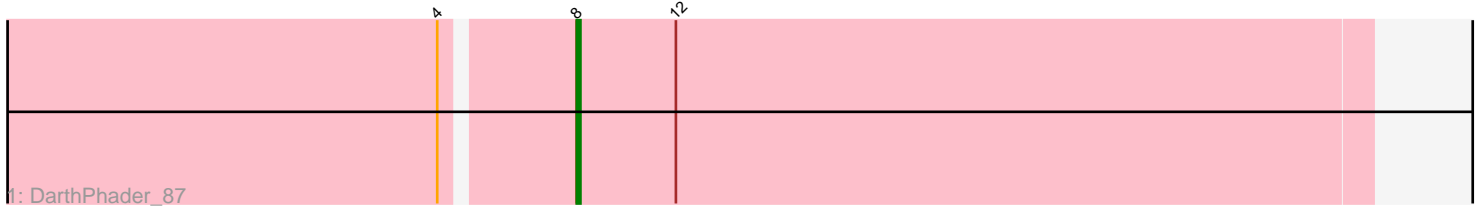


Pham 163953



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 163953 Report

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

Pham number 163953 has 19 members, 0 are drafts.

Phages represented in each track:

- Track 1 : DarthPhader\_87
- Track 2 : PainterBoy\_81, Lucyedi\_81
- Track 3 : DudeLittle\_77, Fameo\_77, Dalmatian\_79, Anselm\_80, QueenB2\_76, Retro23\_79, Heffalump\_76
- Track 4 : Anthony\_75
- Track 5 : StepMih\_83, Soshari\_85
- Track 6 : Rifter\_81
- Track 7 : Gladiator\_77, Gruunaga\_80, Hammer\_81, Hexamo\_80, CloudWang3\_81

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

The start number called the most often in the published annotations is 7, it was called in 8 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- CloudWang3\_81, Gladiator\_77, Gruunaga\_80, Hammer\_81, Hexamo\_80, Lucyedi\_81, PainterBoy\_81, Rifter\_81,

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

- 

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

- Anselm\_80, Anthony\_75, Dalmatian\_79, DarthPhader\_87, DudeLittle\_77, Fameo\_77, Heffalump\_76, QueenB2\_76, Retro23\_79, Soshari\_85, StepMih\_83,

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

Start 4:

- Found in 8 of 19 ( 42.1% ) of genes in pham
- Manual Annotations of this start: 7 of 19
- Called 87.5% of time when present
- Phage (with cluster) where this start called: Anselm\_80 (A2), Dalmatian\_79 (A2), DudeLittle\_77 (A2), Fameo\_77 (A2), Heffalump\_76 (A2), QueenB2\_76 (A2), Retro23\_79 (A2),

Start 6:

- 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: Anthony\_75 (A20),

Start 7:

- Found in 8 of 19 ( 42.1% ) of genes in pham
- Manual Annotations of this start: 8 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CloudWang3\_81 (A6), Gladiator\_77 (A6), Gruunaga\_80 (A6), Hammer\_81 (A6), Hexamo\_80 (A6), Lucyedi\_81 (A16), PainterBoy\_81 (A16), Rifter\_81 (A6),

Start 8:

- Found in 3 of 19 ( 15.8% ) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 33.3% of time when present
- Phage (with cluster) where this start called: DARTHPhader\_87 (A12),

Start 11:

- Found in 2 of 19 ( 10.5% ) of genes in pham
- Manual Annotations of this start: 2 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Soshari\_85 (A3), StepMih\_83 (A3),

**Summary by clusters:**

There are 6 clusters represented in this pham: A20, A16, A12, A3, A2, A6,

Info for manual annotations of cluster A12:

- Start number 8 was manually annotated 1 time for cluster A12.

Info for manual annotations of cluster A16:

- Start number 7 was manually annotated 2 times for cluster A16.

Info for manual annotations of cluster A2:

- Start number 4 was manually annotated 7 times for cluster A2.

Info for manual annotations of cluster A20:

- Start number 6 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A3:

- Start number 11 was manually annotated 2 times for cluster A3.

Info for manual annotations of cluster A6:

- Start number 7 was manually annotated 6 times for cluster A6.

**Gene Information:**

Gene: Anselm\_80 Start: 46936, Stop: 46634, Start Num: 4

Candidate Starts for Anselm\_80:

(Start: 4 @46936 has 7 MA's), (13, 46846), (17, 46723),

Gene: Anthony\_75 Start: 45522, Stop: 45256, Start Num: 6

Candidate Starts for Anthony\_75:

(Start: 6 @45522 has 1 MA's), (10, 45507), (12, 45492), (15, 45396), (16, 45375), (17, 45339),

Gene: CloudWang3\_81 Start: 45345, Stop: 45124, Start Num: 7

Candidate Starts for CloudWang3\_81:

(Start: 7 @45345 has 8 MA's), (9, 45333), (18, 45129),

Gene: Dalmatian\_79 Start: 46667, Stop: 46365, Start Num: 4

Candidate Starts for Dalmatian\_79:

(Start: 4 @46667 has 7 MA's), (13, 46577), (17, 46454),

Gene: DarthPhader\_87 Start: 50218, Stop: 50003, Start Num: 8

Candidate Starts for DarthPhader\_87:

(Start: 4 @50251 has 7 MA's), (Start: 8 @50218 has 1 MA's), (12, 50191),

Gene: DudeLittle\_77 Start: 46433, Stop: 46131, Start Num: 4

Candidate Starts for DudeLittle\_77:

(Start: 4 @46433 has 7 MA's), (13, 46343), (17, 46220),

Gene: Fameo\_77 Start: 46475, Stop: 46173, Start Num: 4

Candidate Starts for Fameo\_77:

(Start: 4 @46475 has 7 MA's), (13, 46385), (17, 46262),

Gene: Gladiator\_77 Start: 45001, Stop: 44780, Start Num: 7

Candidate Starts for Gladiator\_77:

(Start: 7 @45001 has 8 MA's), (9, 44989), (18, 44785),

Gene: Gruunaga\_80 Start: 44956, Stop: 44735, Start Num: 7

Candidate Starts for Gruunaga\_80:

(Start: 7 @44956 has 8 MA's), (9, 44944), (18, 44740),

Gene: Hammer\_81 Start: 44663, Stop: 44442, Start Num: 7

Candidate Starts for Hammer\_81:

(Start: 7 @44663 has 8 MA's), (9, 44651), (18, 44447),

Gene: Heffalump\_76 Start: 46943, Stop: 46641, Start Num: 4

Candidate Starts for Heffalump\_76:

(Start: 4 @46943 has 7 MA's), (13, 46853), (17, 46730),

Gene: Hexamo\_80 Start: 44831, Stop: 44610, Start Num: 7

Candidate Starts for Hexamo\_80:

(Start: 7 @44831 has 8 MA's), (9, 44819), (18, 44615),

Gene: Lucyedi\_81 Start: 46771, Stop: 46526, Start Num: 7

Candidate Starts for Lucyedi\_81:

(1, 46888), (2, 46858), (5, 46783), (Start: 7 @46771 has 8 MA's), (13, 46711),

Gene: PainterBoy\_81 Start: 46481, Stop: 46236, Start Num: 7

Candidate Starts for PainterBoy\_81:

(1, 46598), (2, 46568), (5, 46493), (Start: 7 @46481 has 8 MA's), (13, 46421),

Gene: QueenB2\_76 Start: 46156, Stop: 45854, Start Num: 4

Candidate Starts for QueenB2\_76:

(Start: 4 @46156 has 7 MA's), (13, 46066), (17, 45943),

Gene: Retro23\_79 Start: 46560, Stop: 46258, Start Num: 4

Candidate Starts for Retro23\_79:

(Start: 4 @46560 has 7 MA's), (13, 46470), (17, 46347),

Gene: Rifter\_81 Start: 44458, Stop: 44243, Start Num: 7

Candidate Starts for Rifter\_81:

(Start: 7 @44458 has 8 MA's), (9, 44446),

Gene: Soshari\_85 Start: 46274, Stop: 46065, Start Num: 11

Candidate Starts for Soshari\_85:

(3, 46337), (Start: 8 @46295 has 1 MA's), (9, 46286), (Start: 11 @46274 has 2 MA's), (12, 46268), (14, 46202),

Gene: StepMih\_83 Start: 46244, Stop: 46035, Start Num: 11

Candidate Starts for StepMih\_83:

(3, 46307), (Start: 8 @46265 has 1 MA's), (9, 46256), (Start: 11 @46244 has 2 MA's), (12, 46238), (14, 46172),