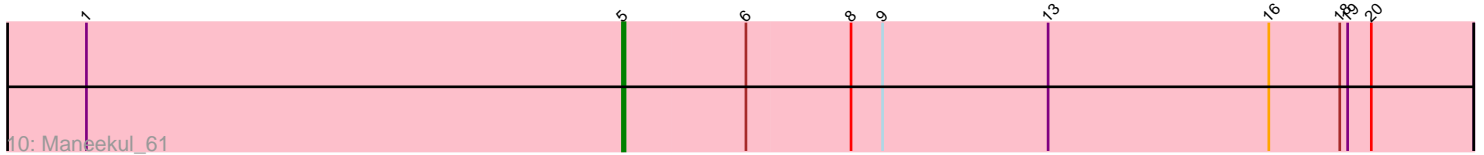
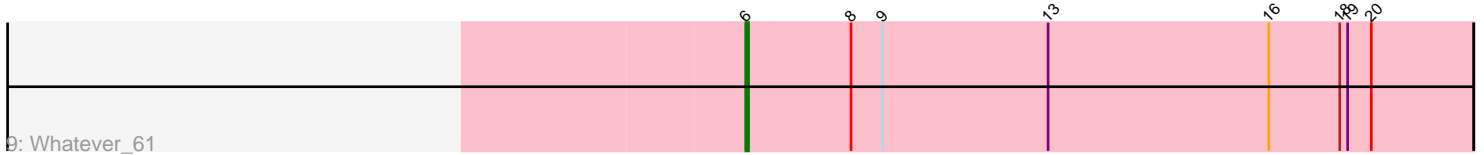
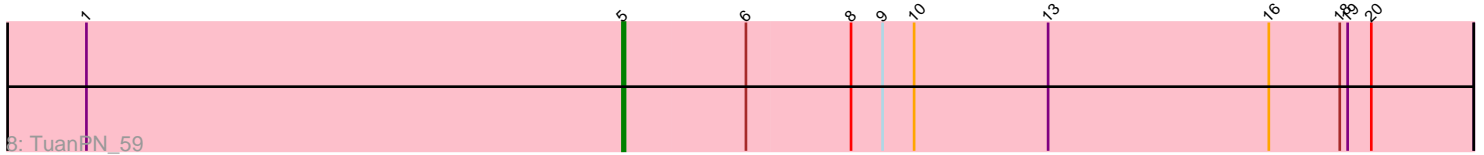
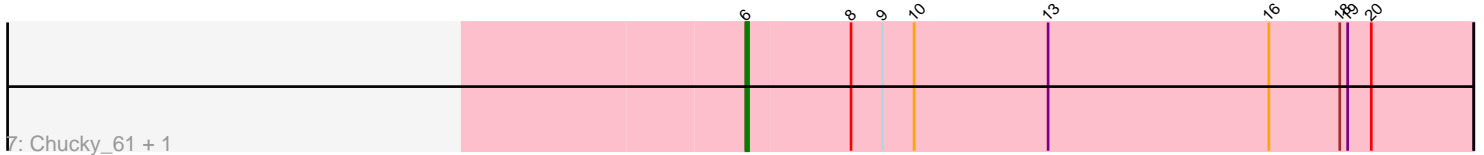
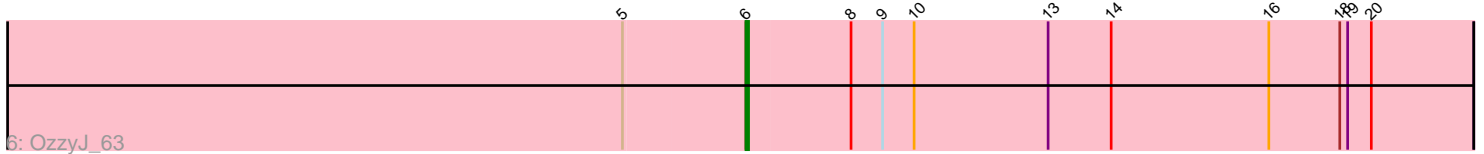
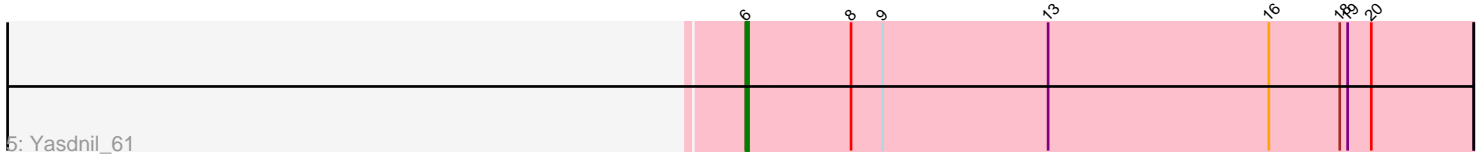
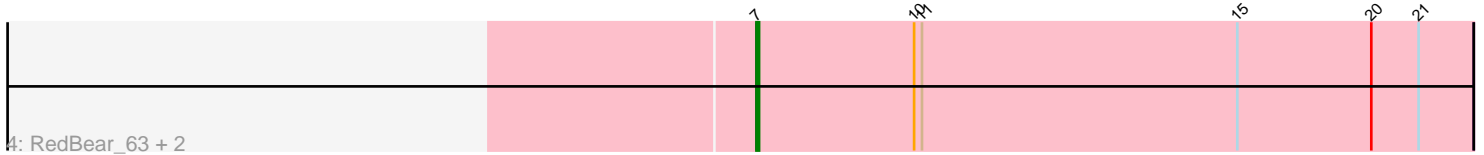
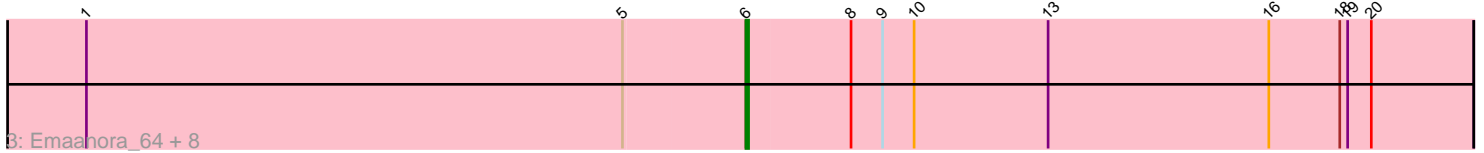
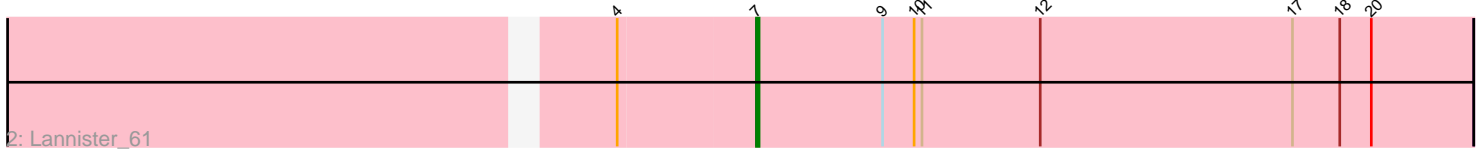
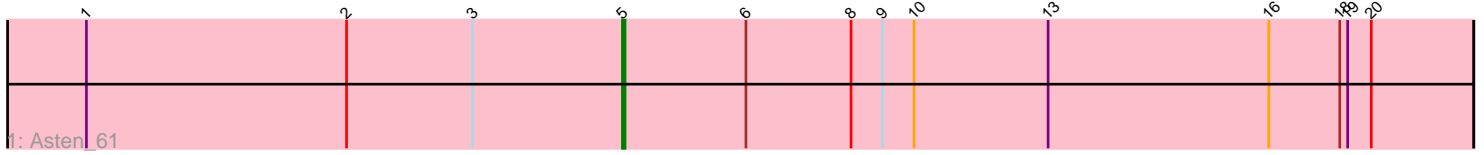


# Pham 4080



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 4080 Report

This analysis was run 07/09/24 on database version 566.

Pham number 4080 has 21 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Asten\_61
- Track 2 : Lannister\_61
- Track 3 : Emaanora\_64, Hippo\_61, SarahRose\_61, Ejemplo\_59, Werner\_61, Triste\_62, BarryBee\_64, Snorlax\_61, TagePhighter\_63
- Track 4 : RedBear\_63, Katalie\_62, South40\_62
- Track 5 : Yasdnil\_61
- Track 6 : OzzyJ\_63
- Track 7 : Chucky\_61, Dwayne\_61
- Track 8 : TuanPN\_59
- Track 9 : Whatever\_61
- Track 10 : Maneekul\_61

### ***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 14 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BarryBee\_64, Chucky\_61, Dwayne\_61, Ejemplo\_59, Emaanora\_64, Hippo\_61, OzzyJ\_63, SarahRose\_61, Snorlax\_61, TagePhighter\_63, Triste\_62, Werner\_61, Whatever\_61, Yasdnil\_61,

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

- Asten\_61, Maneekul\_61, TuanPN\_59,

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

- Katalie\_62, Lannister\_61, RedBear\_63, South40\_62,

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

Start 5:

- Found in 13 of 21 ( 61.9% ) of genes in pham
- Manual Annotations of this start: 3 of 21
- Called 23.1% of time when present

- Phage (with cluster) where this start called: Asten\_61 (BD1), Maneekul\_61 (BD1), TuanPN\_59 (BD1),

#### Start 6:

- Found in 17 of 21 ( 81.0% ) of genes in pham
- Manual Annotations of this start: 14 of 21
- Called 82.4% of time when present
- Phage (with cluster) where this start called: BarryBee\_64 (BD1), Chucky\_61 (BD1), Dwayne\_61 (BD1), Ejemplo\_59 (BD1), Emaanora\_64 (BD1), Hippo\_61 (BD1), OzzyJ\_63 (BD1), SarahRose\_61 (BD1), Snorlax\_61 (BD1), TagePhighter\_63 (BD1), Triste\_62 (BD1), Werner\_61 (BD1), Whatever\_61 (BD1), Yasdnil\_61 (BD1),

#### Start 7:

- Found in 4 of 21 ( 19.0% ) of genes in pham
- Manual Annotations of this start: 4 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Katalie\_62 (BD1), Lannister\_61 (BD1), RedBear\_63 (BD1), South40\_62 (BD1),

### Summary by clusters:

There is one cluster represented in this pham: BD1

Info for manual annotations of cluster BD1:

- Start number 5 was manually annotated 3 times for cluster BD1.
- Start number 6 was manually annotated 14 times for cluster BD1.
- Start number 7 was manually annotated 4 times for cluster BD1.

### **Gene Information:**

Gene: Asten\_61 Start: 45247, Stop: 44927, Start Num: 5

Candidate Starts for Asten\_61:

(1, 45451), (2, 45352), (3, 45304), (Start: 5 @45247 has 3 MA's), (Start: 6 @45202 has 14 MA's), (8, 45163), (9, 45151), (10, 45139), (13, 45088), (16, 45004), (18, 44977), (19, 44974), (20, 44965),

Gene: BarryBee\_64 Start: 45179, Stop: 44904, Start Num: 6

Candidate Starts for BarryBee\_64:

(1, 45428), (Start: 5 @45224 has 3 MA's), (Start: 6 @45179 has 14 MA's), (8, 45140), (9, 45128), (10, 45116), (13, 45065), (16, 44981), (18, 44954), (19, 44951), (20, 44942),

Gene: Chucky\_61 Start: 45241, Stop: 44966, Start Num: 6

Candidate Starts for Chucky\_61:

(Start: 6 @45241 has 14 MA's), (8, 45202), (9, 45190), (10, 45178), (13, 45127), (16, 45043), (18, 45016), (19, 45013), (20, 45004),

Gene: Dwayne\_61 Start: 45229, Stop: 44954, Start Num: 6

Candidate Starts for Dwayne\_61:

(Start: 6 @45229 has 14 MA's), (8, 45190), (9, 45178), (10, 45166), (13, 45115), (16, 45031), (18, 45004), (19, 45001), (20, 44992),

Gene: Ejemplo\_59 Start: 45167, Stop: 44892, Start Num: 6

Candidate Starts for Ejemplo\_59:

(1, 45416), (Start: 5 @45212 has 3 MA's), (Start: 6 @45167 has 14 MA's), (8, 45128), (9, 45116), (10, 45104), (13, 45053), (16, 44969), (18, 44942), (19, 44939), (20, 44930),

Gene: Emaanora\_64 Start: 45152, Stop: 44877, Start Num: 6

Candidate Starts for Emaanora\_64:

(1, 45401), (Start: 5 @45197 has 3 MA's), (Start: 6 @45152 has 14 MA's), (8, 45113), (9, 45101), (10, 45089), (13, 45038), (16, 44954), (18, 44927), (19, 44924), (20, 44915),

Gene: Hippo\_61 Start: 45215, Stop: 44940, Start Num: 6

Candidate Starts for Hippo\_61:

(1, 45464), (Start: 5 @45260 has 3 MA's), (Start: 6 @45215 has 14 MA's), (8, 45176), (9, 45164), (10, 45152), (13, 45101), (16, 45017), (18, 44990), (19, 44987), (20, 44978),

Gene: Katalie\_62 Start: 45720, Stop: 45448, Start Num: 7

Candidate Starts for Katalie\_62:

(Start: 7 @45720 has 4 MA's), (10, 45660), (11, 45657), (15, 45537), (20, 45486), (21, 45468),

Gene: Lannister\_61 Start: 44098, Stop: 43826, Start Num: 7

Candidate Starts for Lannister\_61:

(4, 44149), (Start: 7 @44098 has 4 MA's), (9, 44050), (10, 44038), (11, 44035), (12, 43990), (17, 43894), (18, 43876), (20, 43864),

Gene: Maneekul\_61 Start: 45290, Stop: 44970, Start Num: 5

Candidate Starts for Maneekul\_61:

(1, 45494), (Start: 5 @45290 has 3 MA's), (Start: 6 @45245 has 14 MA's), (8, 45206), (9, 45194), (13, 45131), (16, 45047), (18, 45020), (19, 45017), (20, 45008),

Gene: OzzyJ\_63 Start: 45142, Stop: 44867, Start Num: 6

Candidate Starts for OzzyJ\_63:

(Start: 5 @45187 has 3 MA's), (Start: 6 @45142 has 14 MA's), (8, 45103), (9, 45091), (10, 45079), (13, 45028), (14, 45004), (16, 44944), (18, 44917), (19, 44914), (20, 44905),

Gene: RedBear\_63 Start: 45720, Stop: 45448, Start Num: 7

Candidate Starts for RedBear\_63:

(Start: 7 @45720 has 4 MA's), (10, 45660), (11, 45657), (15, 45537), (20, 45486), (21, 45468),

Gene: SarahRose\_61 Start: 45214, Stop: 44939, Start Num: 6

Candidate Starts for SarahRose\_61:

(1, 45463), (Start: 5 @45259 has 3 MA's), (Start: 6 @45214 has 14 MA's), (8, 45175), (9, 45163), (10, 45151), (13, 45100), (16, 45016), (18, 44989), (19, 44986), (20, 44977),

Gene: Snorlax\_61 Start: 45239, Stop: 44964, Start Num: 6

Candidate Starts for Snorlax\_61:

(1, 45488), (Start: 5 @45284 has 3 MA's), (Start: 6 @45239 has 14 MA's), (8, 45200), (9, 45188), (10, 45176), (13, 45125), (16, 45041), (18, 45014), (19, 45011), (20, 45002),

Gene: South40\_62 Start: 45720, Stop: 45448, Start Num: 7

Candidate Starts for South40\_62:

(Start: 7 @45720 has 4 MA's), (10, 45660), (11, 45657), (15, 45537), (20, 45486), (21, 45468),

Gene: TagePighther\_63 Start: 45215, Stop: 44940, Start Num: 6

Candidate Starts for TagePighther\_63:

(1, 45464), (Start: 5 @45260 has 3 MA's), (Start: 6 @45215 has 14 MA's), (8, 45176), (9, 45164), (10, 45152), (13, 45101), (16, 45017), (18, 44990), (19, 44987), (20, 44978),

Gene: Triste\_62 Start: 45214, Stop: 44939, Start Num: 6

Candidate Starts for Triste\_62:

(1, 45463), (Start: 5 @45259 has 3 MA's), (Start: 6 @45214 has 14 MA's), (8, 45175), (9, 45163), (10, 45151), (13, 45100), (16, 45016), (18, 44989), (19, 44986), (20, 44977),

Gene: TuanPN\_59 Start: 45212, Stop: 44892, Start Num: 5

Candidate Starts for TuanPN\_59:

(1, 45416), (Start: 5 @45212 has 3 MA's), (Start: 6 @45167 has 14 MA's), (8, 45128), (9, 45116), (10, 45104), (13, 45053), (16, 44969), (18, 44942), (19, 44939), (20, 44930),

Gene: Werner\_61 Start: 45212, Stop: 44937, Start Num: 6

Candidate Starts for Werner\_61:

(1, 45461), (Start: 5 @45257 has 3 MA's), (Start: 6 @45212 has 14 MA's), (8, 45173), (9, 45161), (10, 45149), (13, 45098), (16, 45014), (18, 44987), (19, 44984), (20, 44975),

Gene: Whatever\_61 Start: 45238, Stop: 44963, Start Num: 6

Candidate Starts for Whatever\_61:

(Start: 6 @45238 has 14 MA's), (8, 45199), (9, 45187), (13, 45124), (16, 45040), (18, 45013), (19, 45010), (20, 45001),

Gene: Yasdnii\_61 Start: 45264, Stop: 44989, Start Num: 6

Candidate Starts for Yasdnii\_61:

(Start: 6 @45264 has 14 MA's), (8, 45225), (9, 45213), (13, 45150), (16, 45066), (18, 45039), (19, 45036), (20, 45027),