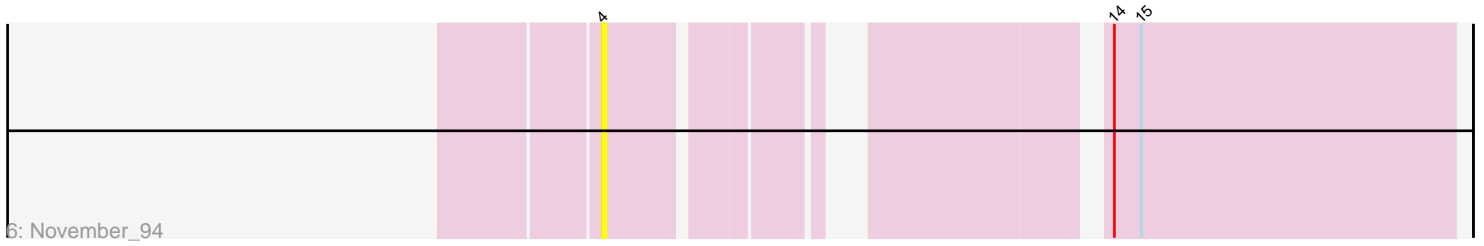
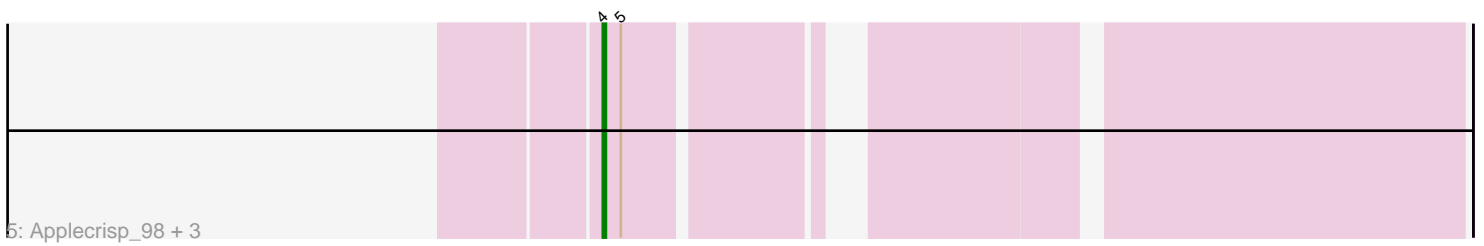
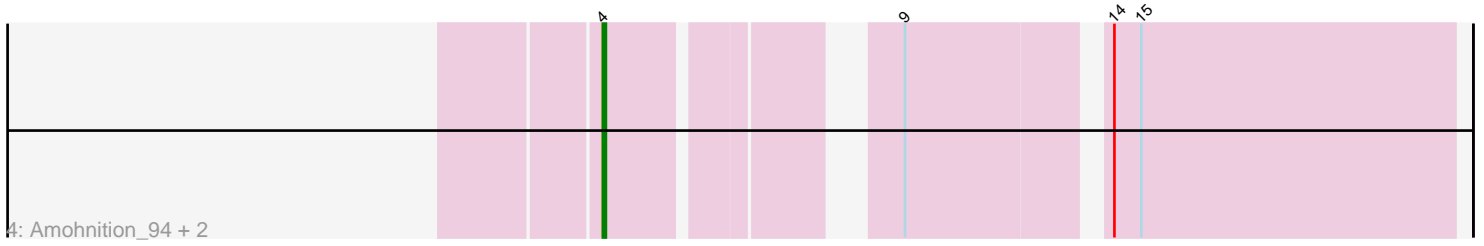
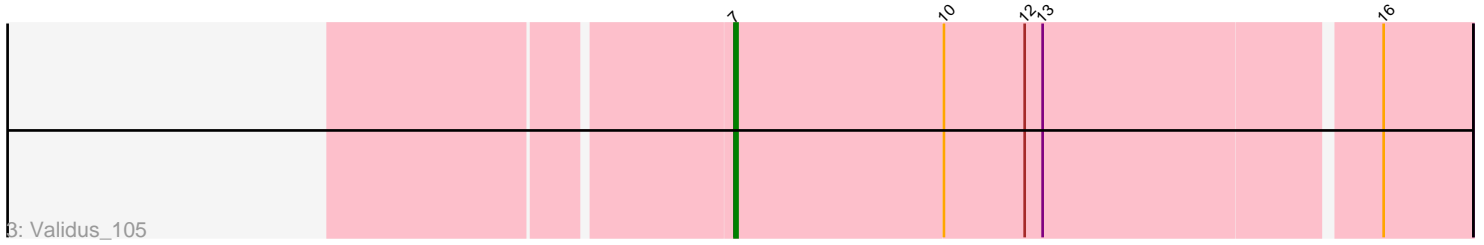
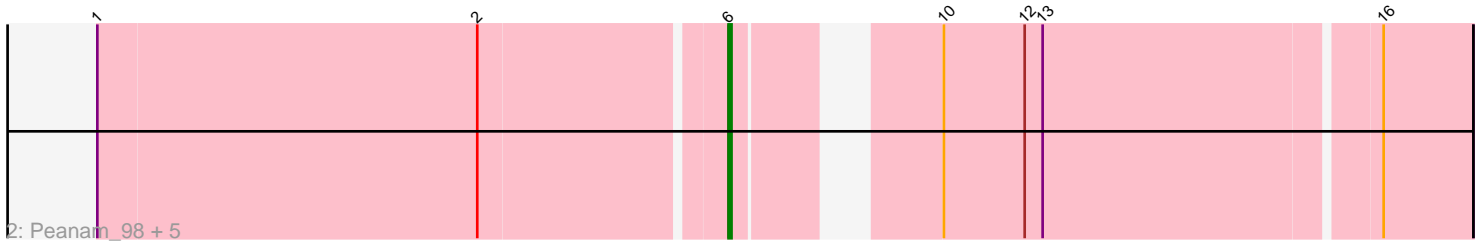
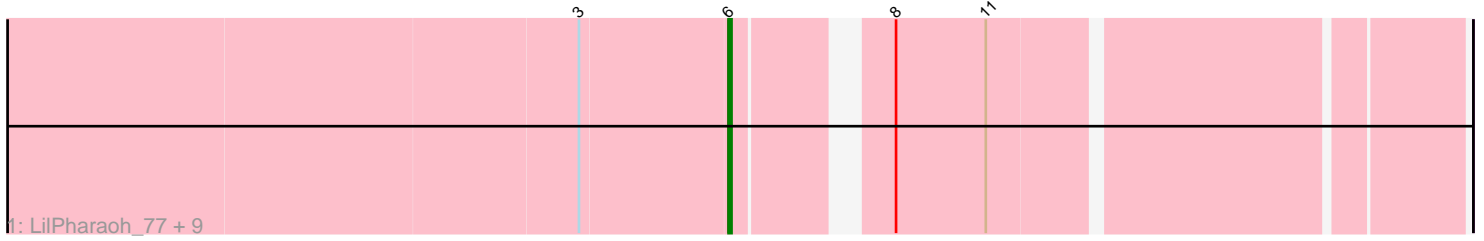


# Pham 224842



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 224842 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224842 has 25 members, 7 are drafts.

Phages represented in each track:

- Track 1 : LilPharaoh\_77, Nutello\_76, SgtBeansprout\_77, Enkosi\_78, Mdavu\_77, Amelie\_76, Biglebops\_76, Nikao\_79, Teejan\_78, Torres\_78
- Track 2 : Peanam\_98, Dartin\_97, Niklas\_97, Shaobing\_95, Richo\_97, McMater\_97
- Track 3 : Validus\_105
- Track 4 : Amohnition\_94, DarthP\_94, Hammy\_94
- Track 5 : Applecrisp\_98, Ellie\_95, Amgine\_96, Fefferhead\_97
- Track 6 : November\_94

### ***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 11 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amelie\_76, Biglebops\_76, Dartin\_97, Enkosi\_78, LilPharaoh\_77, McMater\_97, Mdavu\_77, Nikao\_79, Niklas\_97, Nutello\_76, Peanam\_98, Richo\_97, SgtBeansprout\_77, Shaobing\_95, Teejan\_78, Torres\_78,

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

- 

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

- Amgine\_96, Amohnition\_94, Applecrisp\_98, DarthP\_94, Ellie\_95, Fefferhead\_97, Hammy\_94, November\_94, Validus\_105,

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

Start 4:

- Found in 8 of 25 ( 32.0% ) of genes in pham
- Manual Annotations of this start: 6 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amgine\_96 (K6), Amohnition\_94 (K6), Applecrisp\_98 (K6), DarthP\_94 (K6), Ellie\_95 (K6), Fefferhead\_97 (K6), Hammy\_94 (K6), November\_94 (K6),

Start 6:

- Found in 16 of 25 ( 64.0% ) of genes in pham
- Manual Annotations of this start: 11 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amelie\_76 (K1), Binglebops\_76 (K1), Dartin\_97 (K1), Enkosi\_78 (K1), LilPharaoh\_77 (K1), McMater\_97 (K1), Mdavu\_77 (K1), Nikao\_79 (K1), Niklas\_97 (K1), Nutello\_76 (K1), Peanam\_98 (K1), Richo\_97 (K1), SgtBeansprout\_77 (K1), Shaobing\_95 (K1), Teejan\_78 (K1), Torres\_78 (K1),

Start 7:

- Found in 1 of 25 ( 4.0% ) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Validus\_105 (K1),

**Summary by clusters:**

There are 2 clusters represented in this pham: K1, K6,

Info for manual annotations of cluster K1:

- Start number 6 was manually annotated 11 times for cluster K1.
- Start number 7 was manually annotated 1 time for cluster K1.

Info for manual annotations of cluster K6:

- Start number 4 was manually annotated 6 times for cluster K6.

**Gene Information:**

Gene: Amelie\_76 Start: 55854, Stop: 56072, Start Num: 6

Candidate Starts for Amelie\_76:

(3, 55806), (Start: 6 @55854 has 11 MA's), (8, 55896), (11, 55926),

Gene: Amgine\_96 Start: 61635, Stop: 61889, Start Num: 4

Candidate Starts for Amgine\_96:

(Start: 4 @61635 has 6 MA's), (5, 61641),

Gene: Amohnition\_94 Start: 61150, Stop: 61401, Start Num: 4

Candidate Starts for Amohnition\_94:

(Start: 4 @61150 has 6 MA's), (9, 61228), (14, 61288), (15, 61297),

Gene: Applecrisp\_98 Start: 61353, Stop: 61607, Start Num: 4

Candidate Starts for Applecrisp\_98:

(Start: 4 @61353 has 6 MA's), (5, 61359),

Gene: Binglebops\_76 Start: 55869, Stop: 56087, Start Num: 6

Candidate Starts for Binglebops\_76:

(3, 55821), (Start: 6 @55869 has 11 MA's), (8, 55911), (11, 55941),

Gene: DarthP\_94 Start: 60983, Stop: 61234, Start Num: 4

Candidate Starts for DarthP\_94:

(Start: 4 @60983 has 6 MA's), (9, 61061), (14, 61121), (15, 61130),

Gene: Dartin\_97 Start: 60821, Stop: 61057, Start Num: 6

Candidate Starts for Dartin\_97:

(1, 60617), (2, 60743), (Start: 6 @60821 has 11 MA's), (10, 60887), (12, 60914), (13, 60920), (16, 61028),

Gene: Ellie\_95 Start: 61344, Stop: 61598, Start Num: 4

Candidate Starts for Ellie\_95:

(Start: 4 @61344 has 6 MA's), (5, 61350),

Gene: Enkosi\_78 Start: 58467, Stop: 58685, Start Num: 6

Candidate Starts for Enkosi\_78:

(3, 58419), (Start: 6 @58467 has 11 MA's), (8, 58509), (11, 58539),

Gene: Fefferhead\_97 Start: 60765, Stop: 61019, Start Num: 4

Candidate Starts for Fefferhead\_97:

(Start: 4 @60765 has 6 MA's), (5, 60771),

Gene: Hammy\_94 Start: 61201, Stop: 61452, Start Num: 4

Candidate Starts for Hammy\_94:

(Start: 4 @61201 has 6 MA's), (9, 61279), (14, 61339), (15, 61348),

Gene: LilPharaoh\_77 Start: 55582, Stop: 55800, Start Num: 6

Candidate Starts for LilPharaoh\_77:

(3, 55534), (Start: 6 @55582 has 11 MA's), (8, 55624), (11, 55654),

Gene: McMater\_97 Start: 60821, Stop: 61057, Start Num: 6

Candidate Starts for McMater\_97:

(1, 60617), (2, 60743), (Start: 6 @60821 has 11 MA's), (10, 60887), (12, 60914), (13, 60920), (16, 61028),

Gene: Mdavu\_77 Start: 55858, Stop: 56076, Start Num: 6

Candidate Starts for Mdavu\_77:

(3, 55810), (Start: 6 @55858 has 11 MA's), (8, 55900), (11, 55930),

Gene: Nikao\_79 Start: 58467, Stop: 58685, Start Num: 6

Candidate Starts for Nikao\_79:

(3, 58419), (Start: 6 @58467 has 11 MA's), (8, 58509), (11, 58539),

Gene: Niklas\_97 Start: 60422, Stop: 60658, Start Num: 6

Candidate Starts for Niklas\_97:

(1, 60218), (2, 60344), (Start: 6 @60422 has 11 MA's), (10, 60488), (12, 60515), (13, 60521), (16, 60629),

Gene: November\_94 Start: 60907, Stop: 61155, Start Num: 4

Candidate Starts for November\_94:

(Start: 4 @60907 has 6 MA's), (14, 61042), (15, 61051),

Gene: Nutello\_76 Start: 55854, Stop: 56072, Start Num: 6

Candidate Starts for Nutello\_76:

(3, 55806), (Start: 6 @55854 has 11 MA's), (8, 55896), (11, 55926),

Gene: Peanam\_98 Start: 60489, Stop: 60710, Start Num: 6

Candidate Starts for Peanam\_98:

(1, 60285), (2, 60411), (Start: 6 @60489 has 11 MA's), (10, 60540), (12, 60567), (13, 60573), (16, 60681),

Gene: Richo\_97 Start: 60821, Stop: 61057, Start Num: 6

Candidate Starts for Richo\_97:

(1, 60617), (2, 60743), (Start: 6 @60821 has 11 MA's), (10, 60887), (12, 60914), (13, 60920), (16, 61028),

Gene: SgtBeansprout\_77 Start: 55854, Stop: 56072, Start Num: 6

Candidate Starts for SgtBeansprout\_77:

(3, 55806), (Start: 6 @55854 has 11 MA's), (8, 55896), (11, 55926),

Gene: Shaobing\_95 Start: 60463, Stop: 60699, Start Num: 6

Candidate Starts for Shaobing\_95:

(1, 60259), (2, 60385), (Start: 6 @60463 has 11 MA's), (10, 60529), (12, 60556), (13, 60562), (16, 60670),

Gene: Teejan\_78 Start: 58467, Stop: 58685, Start Num: 6

Candidate Starts for Teejan\_78:

(3, 58419), (Start: 6 @58467 has 11 MA's), (8, 58509), (11, 58539),

Gene: Torres\_78 Start: 58468, Stop: 58686, Start Num: 6

Candidate Starts for Torres\_78:

(3, 58420), (Start: 6 @58468 has 11 MA's), (8, 58510), (11, 58540),

Gene: Validus\_105 Start: 61894, Stop: 62133, Start Num: 7

Candidate Starts for Validus\_105:

(Start: 7 @61894 has 1 MA's), (10, 61963), (12, 61990), (13, 61996), (16, 62104),