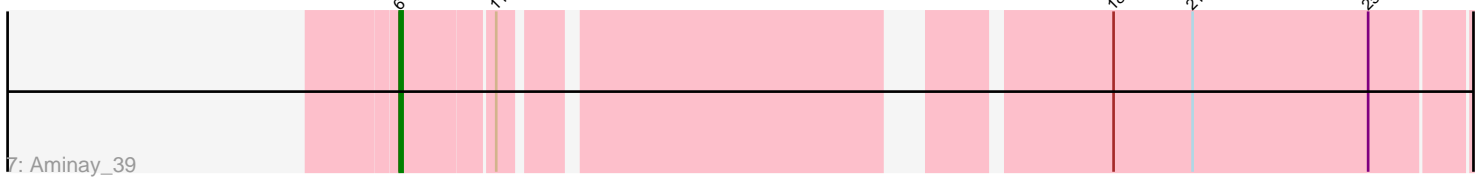
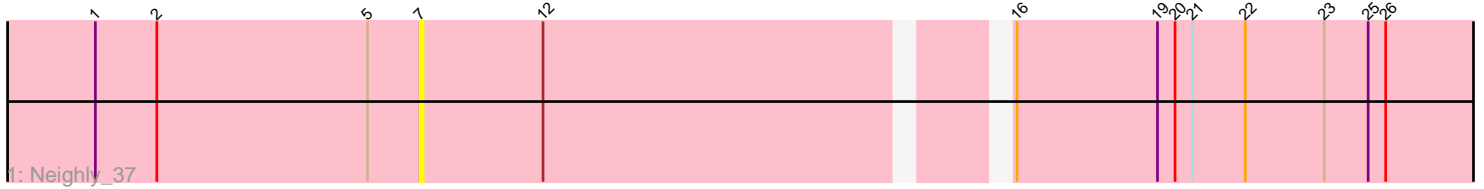


Pham 220042



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 220042 Report

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

Pham number 220042 has 25 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Neighly\_37
- Track 2 : Slarp\_39, Malthus\_40, Cheetobro\_39, Taquito\_39, Mitti\_39, Eponine\_41, Lebo14\_40, Kraw\_40, Chancellor\_39, OmniCritical\_38, SamScheppers\_38
- Track 3 : Wintermute\_39
- Track 4 : Y10\_38, Y2\_38, Juliette\_41, JF1\_39, Ruthiejr\_40
- Track 5 : Bobquesha\_41, Patt\_38, Reptar3000\_39, MissDaisy\_38
- Track 6 : Fionnbharth\_39
- Track 7 : Aminay\_39
- Track 8 : Boilgate\_34

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

The start number called the most often in the published annotations is 9, it was called in 19 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bobquesha\_41, Chancellor\_39, Cheetobro\_39, Eponine\_41, Fionnbharth\_39, JF1\_39, Juliette\_41, Kraw\_40, Lebo14\_40, Malthus\_40, MissDaisy\_38, Mitti\_39, OmniCritical\_38, Patt\_38, Reptar3000\_39, Ruthiejr\_40, SamScheppers\_38, Slarp\_39, Taquito\_39, Wintermute\_39, Y10\_38, Y2\_38,

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

- 

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

- Aminay\_39, Boilgate\_34, Neighly\_37,

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

Start 6:

- Found in 1 of 25 ( 4.0% ) of genes in pham
- Manual Annotations of this start: 1 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aminay\_39 (K7),

Start 7:

- Found in 1 of 25 ( 4.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Neighly\_37 (K3),

Start 8:

- Found in 1 of 25 ( 4.0% ) of genes in pham
- Manual Annotations of this start: 1 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Boilgate\_34 (K8),

Start 9:

- Found in 22 of 25 ( 88.0% ) of genes in pham
- Manual Annotations of this start: 19 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bobquesha\_41 (K4), Chancellor\_39 (K4), Cheetobro\_39 (K4), Eponine\_41 (K4), Fionnbharth\_39 (K4), JF1\_39 (K4), Juliette\_41 (K4), Kraw\_40 (K4), Lebo14\_40 (K4), Malthus\_40 (K4), MissDaisy\_38 (K4), Mitti\_39 (K4), OmniCritical\_38 (K4), Patt\_38 (K4), Reptar3000\_39 (K4), Ruthiejr\_40 (K4), SamScheppers\_38 (K4), Slarp\_39 (K4), Taquito\_39 (K4), Wintermute\_39 (K4), Y10\_38 (K4), Y2\_38 (K4),

**Summary by clusters:**

There are 4 clusters represented in this pham: K3, K8, K7, K4,

Info for manual annotations of cluster K4:

- Start number 9 was manually annotated 19 times for cluster K4.

Info for manual annotations of cluster K7:

- Start number 6 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster K8:

- Start number 8 was manually annotated 1 time for cluster K8.

**Gene Information:**

Gene: Aminay\_39 Start: 31728, Stop: 32063, Start Num: 6

Candidate Starts for Aminay\_39:

(Start: 6 @31728 has 1 MA's), (11, 31758), (18, 31938), (21, 31965), (25, 32025),

Gene: Bobquesha\_41 Start: 30808, Stop: 31131, Start Num: 9

Candidate Starts for Bobquesha\_41:

(Start: 9 @30808 has 19 MA's), (17, 30994), (25, 31087),

Gene: Boilgate\_34 Start: 31799, Stop: 32149, Start Num: 8

Candidate Starts for Boilgate\_34:

(3, 31769), (4, 31772), (Start: 8 @31799 has 1 MA's), (10, 31814), (13, 31850), (15, 31940), (17, 32018), (18, 32024), (24, 32102), (25, 32111),

Gene: Chancellor\_39 Start: 31069, Stop: 31395, Start Num: 9  
Candidate Starts for Chancellor\_39:  
(Start: 9 @31069 has 19 MA's), (17, 31255), (18, 31261), (25, 31348),

Gene: Cheetobro\_39 Start: 31066, Stop: 31392, Start Num: 9  
Candidate Starts for Cheetobro\_39:  
(Start: 9 @31066 has 19 MA's), (17, 31252), (18, 31258), (25, 31345),

Gene: Eponine\_41 Start: 31822, Stop: 32148, Start Num: 9  
Candidate Starts for Eponine\_41:  
(Start: 9 @31822 has 19 MA's), (17, 32008), (18, 32014), (25, 32101),

Gene: Fionnbharth\_39 Start: 31057, Stop: 31383, Start Num: 9  
Candidate Starts for Fionnbharth\_39:  
(Start: 9 @31057 has 19 MA's), (13, 31096), (14, 31102), (17, 31243), (18, 31249), (25, 31336),

Gene: JF1\_39 Start: 31056, Stop: 31379, Start Num: 9  
Candidate Starts for JF1\_39:  
(Start: 9 @31056 has 19 MA's), (13, 31095), (17, 31242), (18, 31248), (25, 31335),

Gene: Juliette\_41 Start: 31215, Stop: 31538, Start Num: 9  
Candidate Starts for Juliette\_41:  
(Start: 9 @31215 has 19 MA's), (13, 31254), (17, 31401), (18, 31407), (25, 31494),

Gene: Kraw\_40 Start: 30981, Stop: 31307, Start Num: 9  
Candidate Starts for Kraw\_40:  
(Start: 9 @30981 has 19 MA's), (17, 31167), (18, 31173), (25, 31260),

Gene: Lebo14\_40 Start: 31070, Stop: 31396, Start Num: 9  
Candidate Starts for Lebo14\_40:  
(Start: 9 @31070 has 19 MA's), (17, 31256), (18, 31262), (25, 31349),

Gene: Malthus\_40 Start: 30981, Stop: 31307, Start Num: 9  
Candidate Starts for Malthus\_40:  
(Start: 9 @30981 has 19 MA's), (17, 31167), (18, 31173), (25, 31260),

Gene: MissDaisy\_38 Start: 30823, Stop: 31146, Start Num: 9  
Candidate Starts for MissDaisy\_38:  
(Start: 9 @30823 has 19 MA's), (17, 31009), (25, 31102),

Gene: Mitti\_39 Start: 30982, Stop: 31308, Start Num: 9  
Candidate Starts for Mitti\_39:  
(Start: 9 @30982 has 19 MA's), (17, 31168), (18, 31174), (25, 31261),

Gene: Neighly\_37 Start: 30468, Stop: 30821, Start Num: 7  
Candidate Starts for Neighly\_37:  
(1, 30357), (2, 30378), (5, 30450), (7, 30468), (12, 30510), (16, 30654), (19, 30702), (20, 30708), (21, 30714), (22, 30732), (23, 30759), (25, 30774), (26, 30780),

Gene: OmniCritical\_38 Start: 30966, Stop: 31292, Start Num: 9

Candidate Starts for OmniCritical\_38:  
(Start: 9 @30966 has 19 MA's), (17, 31152), (18, 31158), (25, 31245),

Gene: Patt\_38 Start: 30799, Stop: 31122, Start Num: 9  
Candidate Starts for Patt\_38:  
(Start: 9 @30799 has 19 MA's), (17, 30985), (25, 31078),

Gene: Reptar3000\_39 Start: 30790, Stop: 31113, Start Num: 9  
Candidate Starts for Reptar3000\_39:  
(Start: 9 @30790 has 19 MA's), (17, 30976), (25, 31069),

Gene: Ruthiejr\_40 Start: 30947, Stop: 31270, Start Num: 9  
Candidate Starts for Ruthiejr\_40:  
(Start: 9 @30947 has 19 MA's), (13, 30986), (17, 31133), (18, 31139), (25, 31226),

Gene: SamScheppers\_38 Start: 31460, Stop: 31786, Start Num: 9  
Candidate Starts for SamScheppers\_38:  
(Start: 9 @31460 has 19 MA's), (17, 31646), (18, 31652), (25, 31739),

Gene: Slarp\_39 Start: 31069, Stop: 31395, Start Num: 9  
Candidate Starts for Slarp\_39:  
(Start: 9 @31069 has 19 MA's), (17, 31255), (18, 31261), (25, 31348),

Gene: Taquito\_39 Start: 31455, Stop: 31781, Start Num: 9  
Candidate Starts for Taquito\_39:  
(Start: 9 @31455 has 19 MA's), (17, 31641), (18, 31647), (25, 31734),

Gene: Wintermute\_39 Start: 31055, Stop: 31381, Start Num: 9  
Candidate Starts for Wintermute\_39:  
(Start: 9 @31055 has 19 MA's), (14, 31100), (17, 31241), (18, 31247), (25, 31334),

Gene: Y10\_38 Start: 31056, Stop: 31379, Start Num: 9  
Candidate Starts for Y10\_38:  
(Start: 9 @31056 has 19 MA's), (13, 31095), (17, 31242), (18, 31248), (25, 31335),

Gene: Y2\_38 Start: 31056, Stop: 31379, Start Num: 9  
Candidate Starts for Y2\_38:  
(Start: 9 @31056 has 19 MA's), (13, 31095), (17, 31242), (18, 31248), (25, 31335),