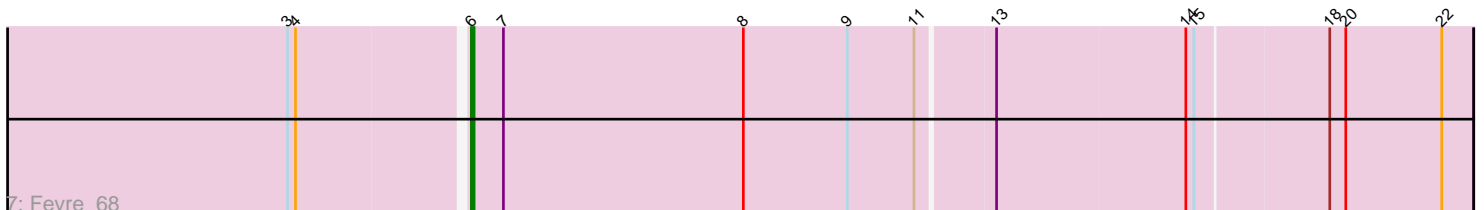
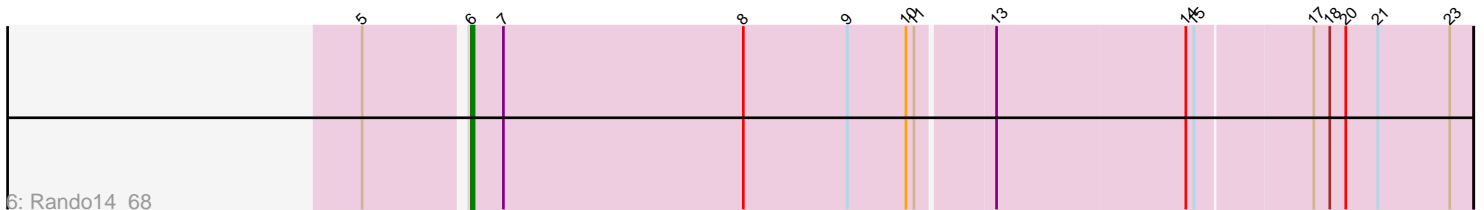
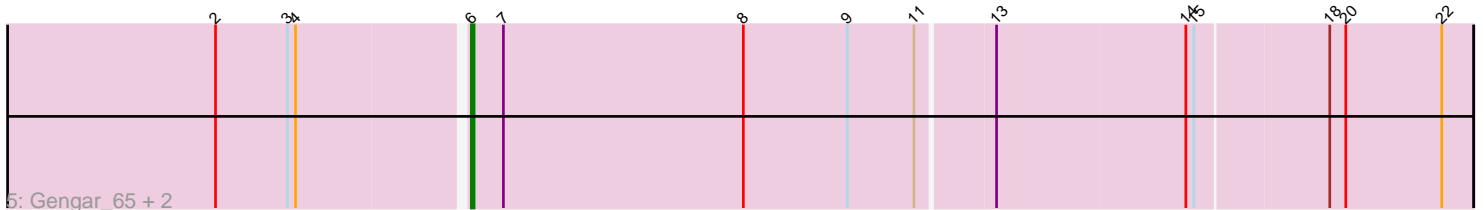
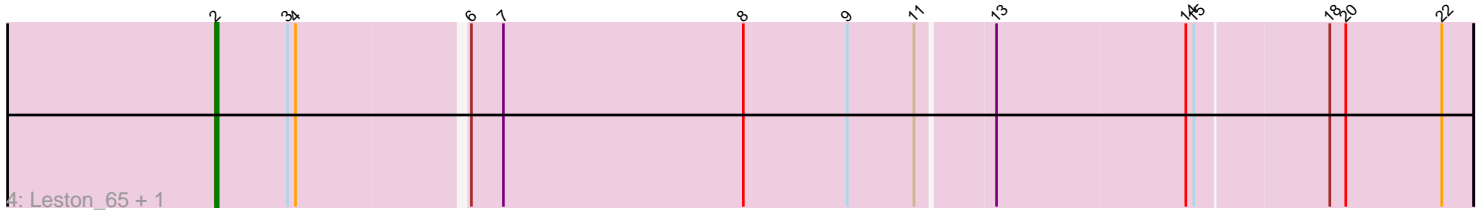
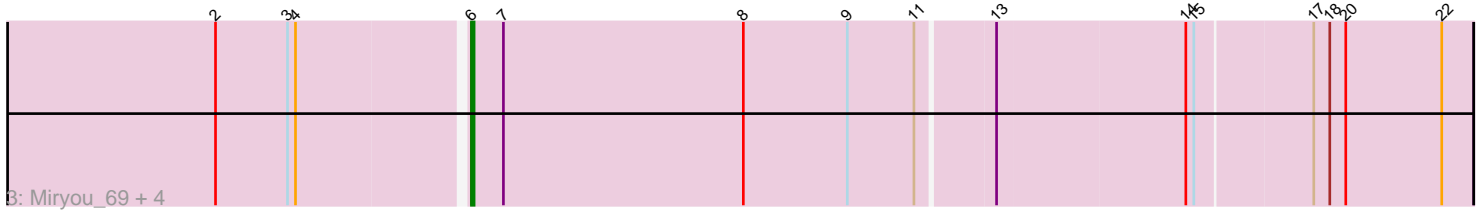
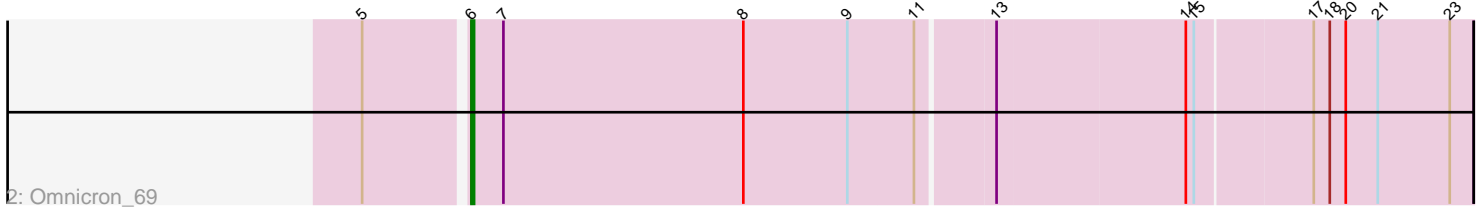
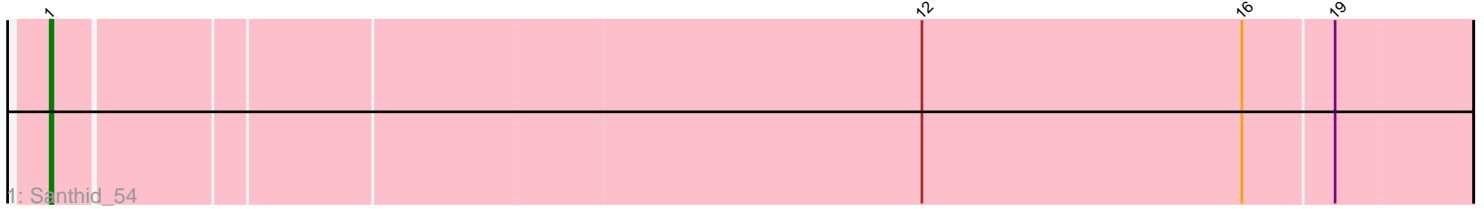


# Pham 194455



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 194455 Report

This analysis was run 11/02/24 on database version 579.

Pham number 194455 has 14 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Santhid\_54
- Track 2 : Omnicron\_69
- Track 3 : Miryou\_69, Heftyboy\_66, Thyatira\_68, SoSeph\_66, Waterfoul\_67
- Track 4 : Leston\_65, Guillsminger\_66
- Track 5 : Gengar\_65, Paola\_65, OkiRoe\_66
- Track 6 : Rando14\_68
- Track 7 : Feyre\_68

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

Genes that call this "Most Annotated" start:

- Feyre\_68, Gengar\_65, Heftyboy\_66, Miryou\_69, OkiRoe\_66, Omnicron\_69, Paola\_65, Rando14\_68, SoSeph\_66, Thyatira\_68, Waterfoul\_67,

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

- Guillsminger\_66, Leston\_65,

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

- Santhid\_54,

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

Start 1:

- Found in 1 of 14 ( 7.1% ) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Santhid\_54 (DY),

Start 2:

- Found in 10 of 14 ( 71.4% ) of genes in pham
- Manual Annotations of this start: 2 of 14

- Called 20.0% of time when present
- Phage (with cluster) where this start called: Guillsminger\_66 (K5), Leston\_65 (K5),

Start 6:

- Found in 13 of 14 ( 92.9% ) of genes in pham
- Manual Annotations of this start: 11 of 14
- Called 84.6% of time when present
- Phage (with cluster) where this start called: Feyre\_68 (K5), Gengar\_65 (K5), Heftyboy\_66 (K5), Miryou\_69 (K5), OkiRoe\_66 (K5), Omnicron\_69 (K5), Paola\_65 (K5), Rando14\_68 (K5), SoSeph\_66 (K5), Thyatira\_68 (K5), Waterfoul\_67 (K5),

### Summary by clusters:

There are 2 clusters represented in this pham: K5, DY,

Info for manual annotations of cluster DY:

- Start number 1 was manually annotated 1 time for cluster DY.

Info for manual annotations of cluster K5:

- Start number 2 was manually annotated 2 times for cluster K5.
- Start number 6 was manually annotated 11 times for cluster K5.

### Gene Information:

Gene: Feyre\_68 Start: 49578, Stop: 49943, Start Num: 6

Candidate Starts for Feyre\_68:

(3, 49515), (4, 49518), (Start: 6 @49578 has 11 MA's), (7, 49590), (8, 49680), (9, 49719), (11, 49743), (13, 49770), (14, 49839), (15, 49842), (18, 49890), (20, 49896), (22, 49932),

Gene: Gengar\_65 Start: 47565, Stop: 47930, Start Num: 6

Candidate Starts for Gengar\_65:

(Start: 2 @47475 has 2 MA's), (3, 47502), (4, 47505), (Start: 6 @47565 has 11 MA's), (7, 47577), (8, 47667), (9, 47706), (11, 47730), (13, 47757), (14, 47826), (15, 47829), (18, 47877), (20, 47883), (22, 47919),

Gene: Guillsminger\_66 Start: 47417, Stop: 47872, Start Num: 2

Candidate Starts for Guillsminger\_66:

(Start: 2 @47417 has 2 MA's), (3, 47444), (4, 47447), (Start: 6 @47507 has 11 MA's), (7, 47519), (8, 47609), (9, 47648), (11, 47672), (13, 47699), (14, 47768), (15, 47771), (18, 47819), (20, 47825), (22, 47861),

Gene: Heftyboy\_66 Start: 47886, Stop: 48251, Start Num: 6

Candidate Starts for Heftyboy\_66:

(Start: 2 @47796 has 2 MA's), (3, 47823), (4, 47826), (Start: 6 @47886 has 11 MA's), (7, 47898), (8, 47988), (9, 48027), (11, 48051), (13, 48078), (14, 48147), (15, 48150), (17, 48192), (18, 48198), (20, 48204), (22, 48240),

Gene: Leston\_65 Start: 47546, Stop: 48001, Start Num: 2

Candidate Starts for Leston\_65:

(Start: 2 @47546 has 2 MA's), (3, 47573), (4, 47576), (Start: 6 @47636 has 11 MA's), (7, 47648), (8, 47738), (9, 47777), (11, 47801), (13, 47828), (14, 47897), (15, 47900), (18, 47948), (20, 47954), (22,

47990),

Gene: Miryou\_69 Start: 50262, Stop: 50627, Start Num: 6

Candidate Starts for Miryou\_69:

(Start: 2 @50172 has 2 MA's), (3, 50199), (4, 50202), (Start: 6 @50262 has 11 MA's), (7, 50274), (8, 50364), (9, 50403), (11, 50427), (13, 50454), (14, 50523), (15, 50526), (17, 50568), (18, 50574), (20, 50580), (22, 50616),

Gene: OkiRoe\_66 Start: 47934, Stop: 48299, Start Num: 6

Candidate Starts for OkiRoe\_66:

(Start: 2 @47844 has 2 MA's), (3, 47871), (4, 47874), (Start: 6 @47934 has 11 MA's), (7, 47946), (8, 48036), (9, 48075), (11, 48099), (13, 48126), (14, 48195), (15, 48198), (18, 48246), (20, 48252), (22, 48288),

Gene: Omnicron\_69 Start: 48055, Stop: 48420, Start Num: 6

Candidate Starts for Omnicron\_69:

(5, 48019), (Start: 6 @48055 has 11 MA's), (7, 48067), (8, 48157), (9, 48196), (11, 48220), (13, 48247), (14, 48316), (15, 48319), (17, 48361), (18, 48367), (20, 48373), (21, 48385), (23, 48412),

Gene: Paola\_65 Start: 47507, Stop: 47872, Start Num: 6

Candidate Starts for Paola\_65:

(Start: 2 @47417 has 2 MA's), (3, 47444), (4, 47447), (Start: 6 @47507 has 11 MA's), (7, 47519), (8, 47609), (9, 47648), (11, 47672), (13, 47699), (14, 47768), (15, 47771), (18, 47819), (20, 47825), (22, 47861),

Gene: Rando14\_68 Start: 46839, Stop: 47204, Start Num: 6

Candidate Starts for Rando14\_68:

(5, 46803), (Start: 6 @46839 has 11 MA's), (7, 46851), (8, 46941), (9, 46980), (10, 47001), (11, 47004), (13, 47031), (14, 47100), (15, 47103), (17, 47145), (18, 47151), (20, 47157), (21, 47169), (23, 47196),

Gene: Santhid\_54 Start: 36000, Stop: 36518, Start Num: 1

Candidate Starts for Santhid\_54:

(Start: 1 @36000 has 1 MA's), (12, 36315), (16, 36435), (19, 36468),

Gene: SoSeph\_66 Start: 47886, Stop: 48251, Start Num: 6

Candidate Starts for SoSeph\_66:

(Start: 2 @47796 has 2 MA's), (3, 47823), (4, 47826), (Start: 6 @47886 has 11 MA's), (7, 47898), (8, 47988), (9, 48027), (11, 48051), (13, 48078), (14, 48147), (15, 48150), (17, 48192), (18, 48198), (20, 48204), (22, 48240),

Gene: Thyatira\_68 Start: 49878, Stop: 50243, Start Num: 6

Candidate Starts for Thyatira\_68:

(Start: 2 @49788 has 2 MA's), (3, 49815), (4, 49818), (Start: 6 @49878 has 11 MA's), (7, 49890), (8, 49980), (9, 50019), (11, 50043), (13, 50070), (14, 50139), (15, 50142), (17, 50184), (18, 50190), (20, 50196), (22, 50232),

Gene: Waterfoul\_67 Start: 47948, Stop: 48313, Start Num: 6

Candidate Starts for Waterfoul\_67:

(Start: 2 @47858 has 2 MA's), (3, 47885), (4, 47888), (Start: 6 @47948 has 11 MA's), (7, 47960), (8, 48050), (9, 48089), (11, 48113), (13, 48140), (14, 48209), (15, 48212), (17, 48254), (18, 48260), (20, 48266), (22, 48302),