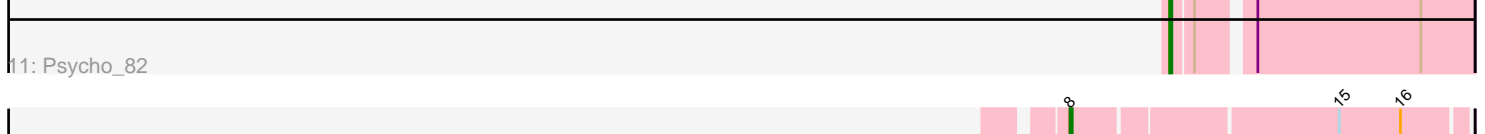
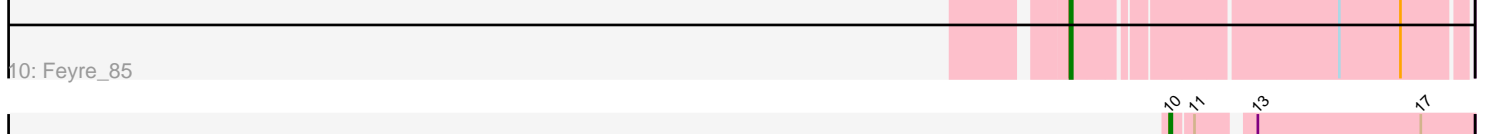
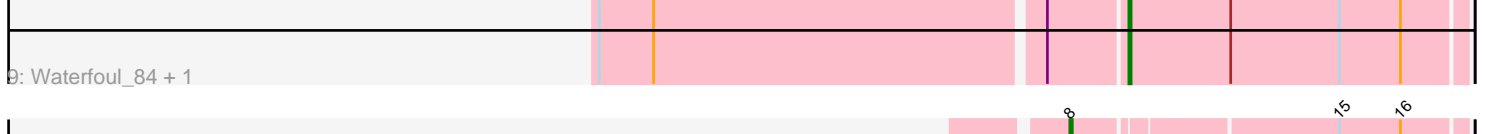
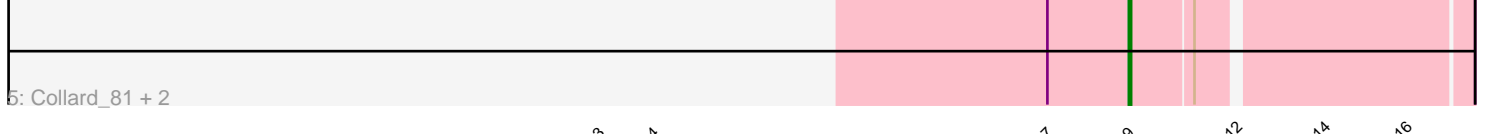
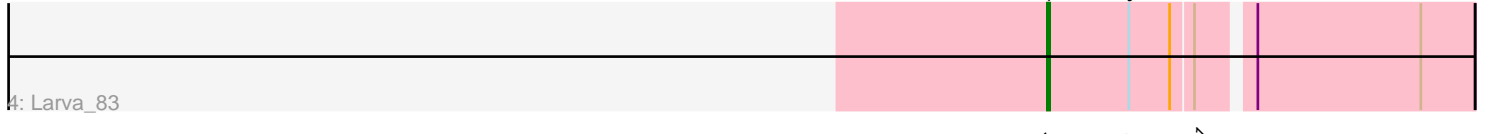
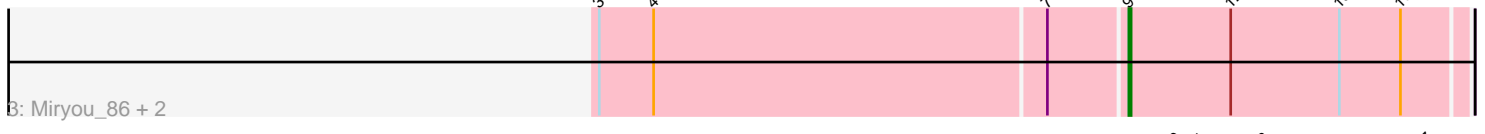
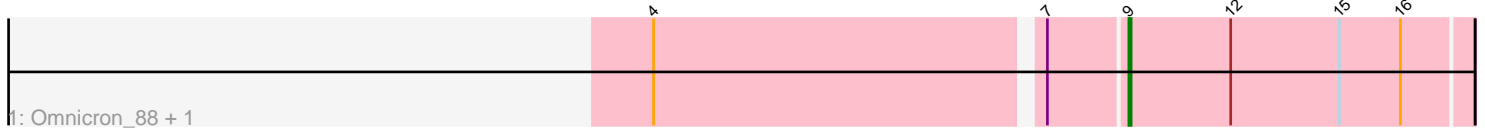


Pham 191532



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 191532 Report

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

Pham number 191532 has 21 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Omnicron\_88, Rando14\_85
- Track 2 : Dadosky\_84, AlleyCat\_84, Kratio\_84
- Track 3 : Miryou\_86, Paola\_84, Guillsminger\_85
- Track 4 : Larva\_83
- Track 5 : Collard\_81, Heftyboy\_83, SoSeph\_83
- Track 6 : Leston\_84
- Track 7 : OkiRoe\_85
- Track 8 : InvictusManeo\_80, Agent47\_82
- Track 9 : Waterfoul\_84, Thyatira\_85
- Track 10 : Feyre\_85
- Track 11 : Psycho\_82
- Track 12 : Gengar\_84

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

Genes that call this "Most Annotated" start:

- Agent47\_82, AlleyCat\_84, Collard\_81, Dadosky\_84, Guillsminger\_85, Heftyboy\_83, InvictusManeo\_80, Kratio\_84, Leston\_84, Miryou\_86, Omnicron\_88, Paola\_84, Rando14\_85, SoSeph\_83, Thyatira\_85, Waterfoul\_84,

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

- Larva\_83,

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

- Feyre\_85, Gengar\_84, OkiRoe\_85, Psycho\_82,

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

Start 7:

- Found in 17 of 21 ( 81.0% ) of genes in pham
- Manual Annotations of this start: 1 of 21

- Called 5.9% of time when present
- Phage (with cluster) where this start called: Larva\_83 (K5),

Start 8:

- Found in 3 of 21 ( 14.3% ) of genes in pham
- Manual Annotations of this start: 3 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Feyre\_85 (K5), Gengar\_84 (K5), OkiRoe\_85 (K5),

Start 9:

- Found in 17 of 21 ( 81.0% ) of genes in pham
- Manual Annotations of this start: 16 of 21
- Called 94.1% of time when present
- Phage (with cluster) where this start called: Agent47\_82 (K5), AlleyCat\_84 (K5), Collard\_81 (K5), Dadosky\_84 (K5), Guillsminger\_85 (K5), Heftyboy\_83 (K5), InvictusManeo\_80 (K5), Kratio\_84 (K5), Leston\_84 (K5), Miryou\_86 (K5), Omnicron\_88 (K5), Paola\_84 (K5), Rando14\_85 (K5), SoSeph\_83 (K5), Thyatira\_85 (K5), Waterfoul\_84 (K5),

Start 10:

- Found in 5 of 21 ( 23.8% ) of genes in pham
- Manual Annotations of this start: 1 of 21
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Psycho\_82 (K5),

### **Summary by clusters:**

There is one cluster represented in this pham: K5

Info for manual annotations of cluster K5:

- Start number 7 was manually annotated 1 time for cluster K5.
- Start number 8 was manually annotated 3 times for cluster K5.
- Start number 9 was manually annotated 16 times for cluster K5.
- Start number 10 was manually annotated 1 time for cluster K5.

### **Gene Information:**

Gene: Agent47\_82 Start: 53328, Stop: 53468, Start Num: 9

Candidate Starts for Agent47\_82:

(1, 52857), (2, 53010), (5, 53124), (Start: 7 @53292 has 1 MA's), (Start: 9 @53328 has 16 MA's), (11, 53355),

Gene: AlleyCat\_84 Start: 54468, Stop: 54611, Start Num: 9

Candidate Starts for AlleyCat\_84:

(Start: 7 @54432 has 1 MA's), (Start: 9 @54468 has 16 MA's), (Start: 10 @54486 has 1 MA's), (11, 54495), (13, 54516), (17, 54588),

Gene: Collard\_81 Start: 53578, Stop: 53718, Start Num: 9

Candidate Starts for Collard\_81:

(Start: 7 @53542 has 1 MA's), (Start: 9 @53578 has 16 MA's), (11, 53605),

Gene: Dadosky\_84 Start: 54469, Stop: 54612, Start Num: 9  
Candidate Starts for Dadosky\_84:  
(Start: 7 @54433 has 1 MA's), (Start: 9 @54469 has 16 MA's), (Start: 10 @54487 has 1 MA's), (11, 54496), (13, 54517), (17, 54589),

Gene: Feyre\_85 Start: 56970, Stop: 57128, Start Num: 8  
Candidate Starts for Feyre\_85:  
(Start: 8 @56970 has 3 MA's), (15, 57075), (16, 57102),

Gene: Gengar\_84 Start: 55837, Stop: 55998, Start Num: 8  
Candidate Starts for Gengar\_84:  
(Start: 8 @55837 has 3 MA's), (15, 55945), (16, 55972),

Gene: Guillsminger\_85 Start: 55691, Stop: 55837, Start Num: 9  
Candidate Starts for Guillsminger\_85:  
(3, 55463), (4, 55487), (Start: 7 @55658 has 1 MA's), (Start: 9 @55691 has 16 MA's), (12, 55736), (15, 55784), (16, 55811),

Gene: Heftyboy\_83 Start: 55305, Stop: 55445, Start Num: 9  
Candidate Starts for Heftyboy\_83:  
(Start: 7 @55269 has 1 MA's), (Start: 9 @55305 has 16 MA's), (11, 55332),

Gene: InvictusManeo\_80 Start: 53332, Stop: 53472, Start Num: 9  
Candidate Starts for InvictusManeo\_80:  
(1, 52861), (2, 53014), (5, 53128), (Start: 7 @53296 has 1 MA's), (Start: 9 @53332 has 16 MA's), (11, 53359),

Gene: Kratio\_84 Start: 54363, Stop: 54506, Start Num: 9  
Candidate Starts for Kratio\_84:  
(Start: 7 @54327 has 1 MA's), (Start: 9 @54363 has 16 MA's), (Start: 10 @54381 has 1 MA's), (11, 54390), (13, 54411), (17, 54483),

Gene: Larva\_83 Start: 55305, Stop: 55484, Start Num: 7  
Candidate Starts for Larva\_83:  
(Start: 7 @55305 has 1 MA's), (Start: 9 @55341 has 16 MA's), (Start: 10 @55359 has 1 MA's), (11, 55368), (13, 55389), (17, 55461),

Gene: Leston\_84 Start: 55808, Stop: 55954, Start Num: 9  
Candidate Starts for Leston\_84:  
(3, 55580), (4, 55604), (Start: 7 @55775 has 1 MA's), (Start: 9 @55808 has 16 MA's), (12, 55853), (14, 55892), (16, 55928),

Gene: Miryou\_86 Start: 57666, Stop: 57812, Start Num: 9  
Candidate Starts for Miryou\_86:  
(3, 57438), (4, 57462), (Start: 7 @57633 has 1 MA's), (Start: 9 @57666 has 16 MA's), (12, 57711), (15, 57759), (16, 57786),

Gene: OkiRoe\_85 Start: 56800, Stop: 56961, Start Num: 8  
Candidate Starts for OkiRoe\_85:  
(6, 56782), (Start: 8 @56800 has 3 MA's), (15, 56908), (16, 56935),

Gene: Omnicron\_88 Start: 57883, Stop: 58032, Start Num: 9

Candidate Starts for Omnicron\_88:

(4, 57685), (Start: 7 @57850 has 1 MA's), (Start: 9 @57883 has 16 MA's), (12, 57928), (15, 57976), (16, 58003),

Gene: Paola\_84 Start: 55691, Stop: 55837, Start Num: 9

Candidate Starts for Paola\_84:

(3, 55463), (4, 55487), (Start: 7 @55658 has 1 MA's), (Start: 9 @55691 has 16 MA's), (12, 55736), (15, 55784), (16, 55811),

Gene: Psycho\_82 Start: 54484, Stop: 54609, Start Num: 10

Candidate Starts for Psycho\_82:

(Start: 10 @54484 has 1 MA's), (11, 54493), (13, 54514), (17, 54586),

Gene: Rando14\_85 Start: 56294, Stop: 56443, Start Num: 9

Candidate Starts for Rando14\_85:

(4, 56096), (Start: 7 @56261 has 1 MA's), (Start: 9 @56294 has 16 MA's), (12, 56339), (15, 56387), (16, 56414),

Gene: SoSeph\_83 Start: 55305, Stop: 55445, Start Num: 9

Candidate Starts for SoSeph\_83:

(Start: 7 @55269 has 1 MA's), (Start: 9 @55305 has 16 MA's), (11, 55332),

Gene: Thyatira\_85 Start: 57400, Stop: 57546, Start Num: 9

Candidate Starts for Thyatira\_85:

(3, 57175), (4, 57199), (Start: 7 @57367 has 1 MA's), (Start: 9 @57400 has 16 MA's), (12, 57445), (15, 57493), (16, 57520),

Gene: Waterfoul\_84 Start: 55470, Stop: 55616, Start Num: 9

Candidate Starts for Waterfoul\_84:

(3, 55245), (4, 55269), (Start: 7 @55437 has 1 MA's), (Start: 9 @55470 has 16 MA's), (12, 55515), (15, 55563), (16, 55590),