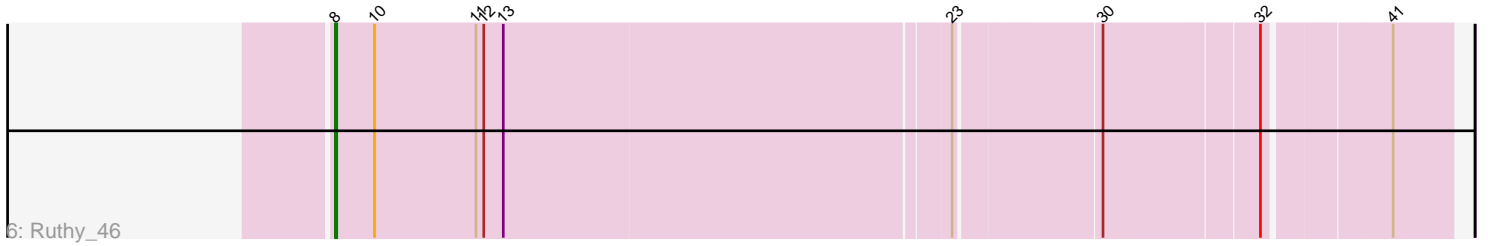
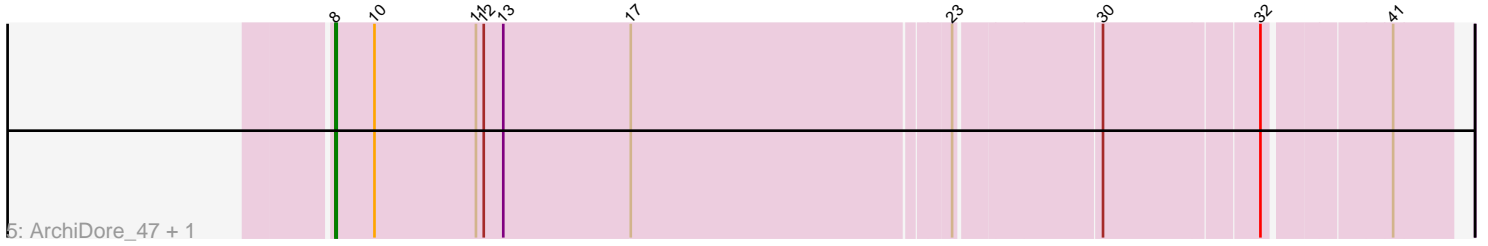
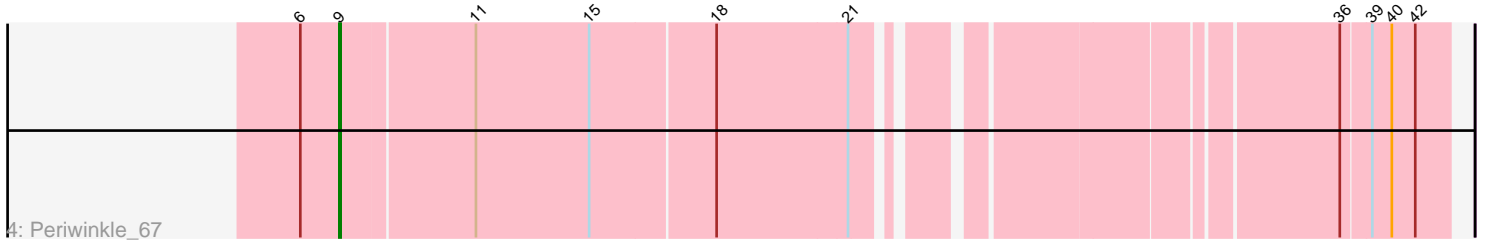
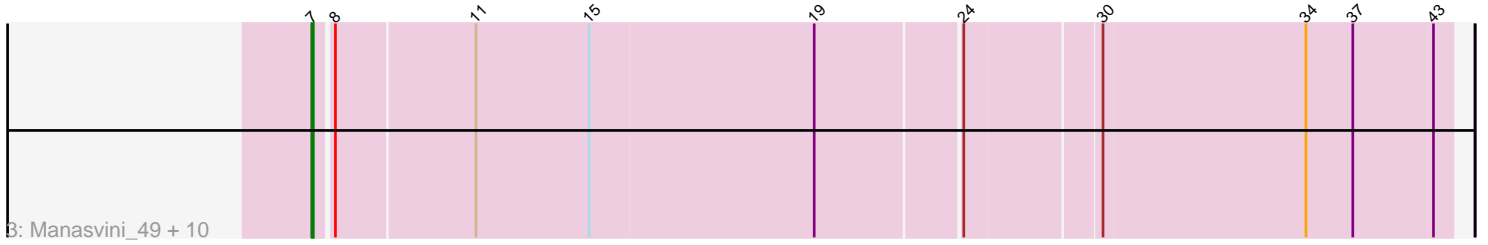
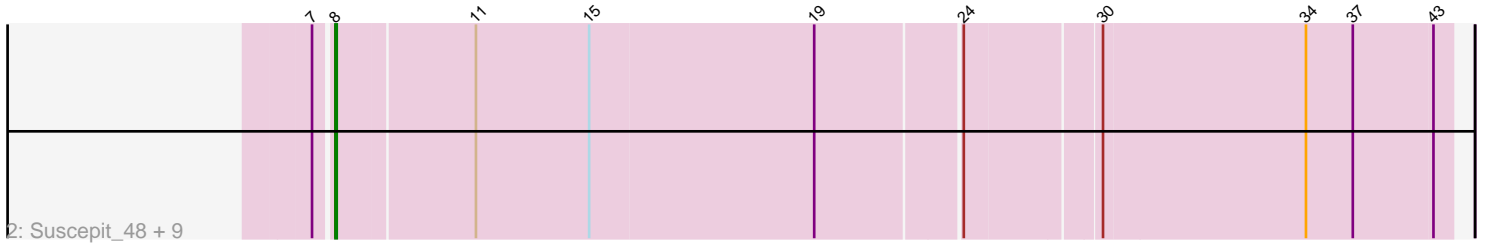
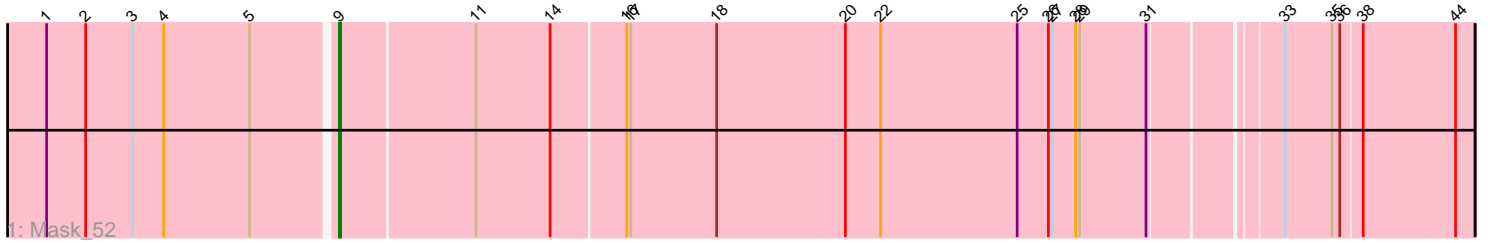


# Pham 224825



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 224825 Report

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

Pham number 224825 has 26 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Mask\_52
- Track 2 : Suscepit\_48, Eudoria\_48, AlumE\_48, Agueybana\_50, Trumpet\_48, Tayonia\_48, Polly\_45, BoyNamedSue\_48, Neobush\_48, Zameen\_48
- Track 3 : Manasvini\_49, Yeet412\_43, Attis\_43, LordFarquaad\_45, Zirinka\_45, EdnaMode\_42, Antonio\_48, Pickett\_41, SoilAssassin\_43, Kita\_49, Bialota\_46
- Track 4 : Periwinkle\_67
- Track 5 : ArchiDore\_47, DumpsterDude\_48
- Track 6 : Ruthy\_46

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

The start number called the most often in the published annotations is 8, it was called in 12 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Agueybana\_50, AlumE\_48, ArchiDore\_47, BoyNamedSue\_48, DumpsterDude\_48, Eudoria\_48, Neobush\_48, Polly\_45, Ruthy\_46, Suscepit\_48, Tayonia\_48, Trumpet\_48, Zameen\_48,

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

- Antonio\_48, Attis\_43, Bialota\_46, EdnaMode\_42, Kita\_49, LordFarquaad\_45, Manasvini\_49, Pickett\_41, SoilAssassin\_43, Yeet412\_43, Zirinka\_45,

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

- Mask\_52, Periwinkle\_67,

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

Start 7:

- Found in 21 of 26 ( 80.8% ) of genes in pham
- Manual Annotations of this start: 11 of 25
- Called 52.4% of time when present
- Phage (with cluster) where this start called: Antonio\_48 (CZ1), Attis\_43 (CZ2), Bialota\_46 (CZ1), EdnaMode\_42 (CZ2), Kita\_49 (CZ1), LordFarquaad\_45 (CZ2),

Manasvini\_49 (CZ1), Pickett\_41 (CZ2), SoilAssassin\_43 (CZ2), Yeet412\_43 (CZ2), Zirinka\_45 (CZ1),

Start 8:

- Found in 24 of 26 ( 92.3% ) of genes in pham
- Manual Annotations of this start: 12 of 25
- Called 54.2% of time when present
- Phage (with cluster) where this start called: Agueybana\_50 (CZ1), AlumE\_48 (CZ1), ArchiDore\_47 (DW), BoyNamedSue\_48 (CZ1), DumpsterDude\_48 (DW), Eudoria\_48 (CZ1), Neobush\_48 (CZ1), Polly\_45 (CZ1), Ruthy\_46 (DW), Susceptit\_48 (CZ1), Tayonia\_48 (CZ1), Trumpet\_48 (CZ1), Zameen\_48 (CZ1),

Start 9:

- Found in 2 of 26 ( 7.7% ) of genes in pham
- Manual Annotations of this start: 2 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mask\_52 (AD), Periwinkle\_67 (DN1),

### **Summary by clusters:**

There are 5 clusters represented in this pham: CZ2, DW, CZ1, DN1, AD,

Info for manual annotations of cluster AD:

- Start number 9 was manually annotated 1 time for cluster AD.

Info for manual annotations of cluster CZ1:

- Start number 7 was manually annotated 5 times for cluster CZ1.
- Start number 8 was manually annotated 10 times for cluster CZ1.

Info for manual annotations of cluster CZ2:

- Start number 7 was manually annotated 6 times for cluster CZ2.

Info for manual annotations of cluster DN1:

- Start number 9 was manually annotated 1 time for cluster DN1.

Info for manual annotations of cluster DW:

- Start number 8 was manually annotated 2 times for cluster DW.

### **Gene Information:**

Gene: Agueybana\_50 Start: 37589, Stop: 38413, Start Num: 8

Candidate Starts for Agueybana\_50:

(Start: 7 @37577 has 11 MA's), (Start: 8 @37589 has 12 MA's), (11, 37691), (15, 37778), (19, 37949), (24, 38054), (30, 38150), (34, 38303), (37, 38339), (43, 38399),

Gene: AlumE\_48 Start: 36089, Stop: 36913, Start Num: 8

Candidate Starts for AlumE\_48:

(Start: 7 @36077 has 11 MA's), (Start: 8 @36089 has 12 MA's), (11, 36191), (15, 36278), (19, 36449), (24, 36554), (30, 36650), (34, 36803), (37, 36839), (43, 36899),

Gene: Antonio\_48 Start: 35350, Stop: 36186, Start Num: 7

Candidate Starts for Antonio\_48:

(Start: 7 @35350 has 11 MA's), (Start: 8 @35362 has 12 MA's), (11, 35464), (15, 35551), (19, 35722), (24, 35827), (30, 35923), (34, 36076), (37, 36112), (43, 36172),

Gene: ArchiDore\_47 Start: 36606, Stop: 37415, Start Num: 8

Candidate Starts for ArchiDore\_47:

(Start: 8 @36606 has 12 MA's), (10, 36636), (11, 36714), (12, 36720), (13, 36735), (17, 36831), (23, 37068), (30, 37170), (32, 37284), (41, 37371),

Gene: Attis\_43 Start: 32483, Stop: 33319, Start Num: 7

Candidate Starts for Attis\_43:

(Start: 7 @32483 has 11 MA's), (Start: 8 @32495 has 12 MA's), (11, 32597), (15, 32684), (19, 32855), (24, 32960), (30, 33056), (34, 33209), (37, 33245), (43, 33305),

Gene: Bialota\_46 Start: 35982, Stop: 36818, Start Num: 7

Candidate Starts for Bialota\_46:

(Start: 7 @35982 has 11 MA's), (Start: 8 @35994 has 12 MA's), (11, 36096), (15, 36183), (19, 36354), (24, 36459), (30, 36555), (34, 36708), (37, 36744), (43, 36804),

Gene: BoyNamedSue\_48 Start: 36089, Stop: 36913, Start Num: 8

Candidate Starts for BoyNamedSue\_48:

(Start: 7 @36077 has 11 MA's), (Start: 8 @36089 has 12 MA's), (11, 36191), (15, 36278), (19, 36449), (24, 36554), (30, 36650), (34, 36803), (37, 36839), (43, 36899),

Gene: DumpsterDude\_48 Start: 38831, Stop: 39640, Start Num: 8

Candidate Starts for DumpsterDude\_48:

(Start: 8 @38831 has 12 MA's), (10, 38861), (11, 38939), (12, 38945), (13, 38960), (17, 39056), (23, 39293), (30, 39395), (32, 39509), (41, 39596),

Gene: EdnaMode\_42 Start: 31171, Stop: 32007, Start Num: 7

Candidate Starts for EdnaMode\_42:

(Start: 7 @31171 has 11 MA's), (Start: 8 @31183 has 12 MA's), (11, 31285), (15, 31372), (19, 31543), (24, 31648), (30, 31744), (34, 31897), (37, 31933), (43, 31993),

Gene: Eudoria\_48 Start: 35362, Stop: 36186, Start Num: 8

Candidate Starts for Eudoria\_48:

(Start: 7 @35350 has 11 MA's), (Start: 8 @35362 has 12 MA's), (11, 35464), (15, 35551), (19, 35722), (24, 35827), (30, 35923), (34, 36076), (37, 36112), (43, 36172),

Gene: Kita\_49 Start: 35359, Stop: 36195, Start Num: 7

Candidate Starts for Kita\_49:

(Start: 7 @35359 has 11 MA's), (Start: 8 @35371 has 12 MA's), (11, 35473), (15, 35560), (19, 35731), (24, 35836), (30, 35932), (34, 36085), (37, 36121), (43, 36181),

Gene: LordFarquaad\_45 Start: 32464, Stop: 33300, Start Num: 7

Candidate Starts for LordFarquaad\_45:

(Start: 7 @32464 has 11 MA's), (Start: 8 @32476 has 12 MA's), (11, 32578), (15, 32665), (19, 32836), (24, 32941), (30, 33037), (34, 33190), (37, 33226), (43, 33286),

Gene: Manasvini\_49 Start: 35374, Stop: 36210, Start Num: 7

Candidate Starts for Manasvini\_49:

(Start: 7 @35374 has 11 MA's), (Start: 8 @35386 has 12 MA's), (11, 35488), (15, 35575), (19, 35746), (24, 35851), (30, 35947), (34, 36100), (37, 36136), (43, 36196),

Gene: Mask\_52 Start: 46012, Stop: 46845, Start Num: 9

Candidate Starts for Mask\_52:

(1, 45796), (2, 45826), (3, 45862), (4, 45886), (5, 45952), (Start: 9 @46012 has 2 MA's), (11, 46111), (14, 46168), (16, 46222), (17, 46225), (18, 46291), (20, 46387), (22, 46414), (25, 46519), (26, 46543), (27, 46546), (28, 46564), (29, 46567), (31, 46618), (33, 46705), (35, 46741), (36, 46747), (38, 46762), (44, 46831),

Gene: Neobush\_48 Start: 35356, Stop: 36180, Start Num: 8

Candidate Starts for Neobush\_48:

(Start: 7 @35344 has 11 MA's), (Start: 8 @35356 has 12 MA's), (11, 35458), (15, 35545), (19, 35716), (24, 35821), (30, 35917), (34, 36070), (37, 36106), (43, 36166),

Gene: Periwinkle\_67 Start: 39705, Stop: 40481, Start Num: 9

Candidate Starts for Periwinkle\_67:

(6, 39675), (Start: 9 @39705 has 2 MA's), (11, 39804), (15, 39891), (18, 39984), (21, 40083), (36, 40401), (39, 40422), (40, 40437), (42, 40455),

Gene: Pickett\_41 Start: 29647, Stop: 30483, Start Num: 7

Candidate Starts for Pickett\_41:

(Start: 7 @29647 has 11 MA's), (Start: 8 @29659 has 12 MA's), (11, 29761), (15, 29848), (19, 30019), (24, 30124), (30, 30220), (34, 30373), (37, 30409), (43, 30469),

Gene: Polly\_45 Start: 34805, Stop: 35629, Start Num: 8

Candidate Starts for Polly\_45:

(Start: 7 @34793 has 11 MA's), (Start: 8 @34805 has 12 MA's), (11, 34907), (15, 34994), (19, 35165), (24, 35270), (30, 35366), (34, 35519), (37, 35555), (43, 35615),

Gene: Ruthy\_46 Start: 36193, Stop: 37002, Start Num: 8

Candidate Starts for Ruthy\_46:

(Start: 8 @36193 has 12 MA's), (10, 36223), (11, 36301), (12, 36307), (13, 36322), (23, 36655), (30, 36757), (32, 36871), (41, 36958),

Gene: SoilAssassin\_43 Start: 32482, Stop: 33318, Start Num: 7

Candidate Starts for SoilAssassin\_43:

(Start: 7 @32482 has 11 MA's), (Start: 8 @32494 has 12 MA's), (11, 32596), (15, 32683), (19, 32854), (24, 32959), (30, 33055), (34, 33208), (37, 33244), (43, 33304),

Gene: Suscepit\_48 Start: 35363, Stop: 36187, Start Num: 8

Candidate Starts for Suscepit\_48:

(Start: 7 @35351 has 11 MA's), (Start: 8 @35363 has 12 MA's), (11, 35465), (15, 35552), (19, 35723), (24, 35828), (30, 35924), (34, 36077), (37, 36113), (43, 36173),

Gene: Tayonia\_48 Start: 35362, Stop: 36186, Start Num: 8

Candidate Starts for Tayonia\_48:

(Start: 7 @35350 has 11 MA's), (Start: 8 @35362 has 12 MA's), (11, 35464), (15, 35551), (19, 35722), (24, 35827), (30, 35923), (34, 36076), (37, 36112), (43, 36172),

Gene: Trumpet\_48 Start: 35363, Stop: 36187, Start Num: 8

Candidate Starts for Trumpet\_48:

(Start: 7 @35351 has 11 MA's), (Start: 8 @35363 has 12 MA's), (11, 35465), (15, 35552), (19, 35723), (24, 35828), (30, 35924), (34, 36077), (37, 36113), (43, 36173),

Gene: Yeet412\_43 Start: 32483, Stop: 33319, Start Num: 7

Candidate Starts for Yeet412\_43:

(Start: 7 @32483 has 11 MA's), (Start: 8 @32495 has 12 MA's), (11, 32597), (15, 32684), (19, 32855), (24, 32960), (30, 33056), (34, 33209), (37, 33245), (43, 33305),

Gene: Zameen\_48 Start: 35362, Stop: 36186, Start Num: 8

Candidate Starts for Zameen\_48:

(Start: 7 @35350 has 11 MA's), (Start: 8 @35362 has 12 MA's), (11, 35464), (15, 35551), (19, 35722), (24, 35827), (30, 35923), (34, 36076), (37, 36112), (43, 36172),

Gene: Zirinka\_45 Start: 35970, Stop: 36806, Start Num: 7

Candidate Starts for Zirinka\_45:

(Start: 7 @35970 has 11 MA's), (Start: 8 @35982 has 12 MA's), (11, 36084), (15, 36171), (19, 36342), (24, 36447), (30, 36543), (34, 36696), (37, 36732), (43, 36792),