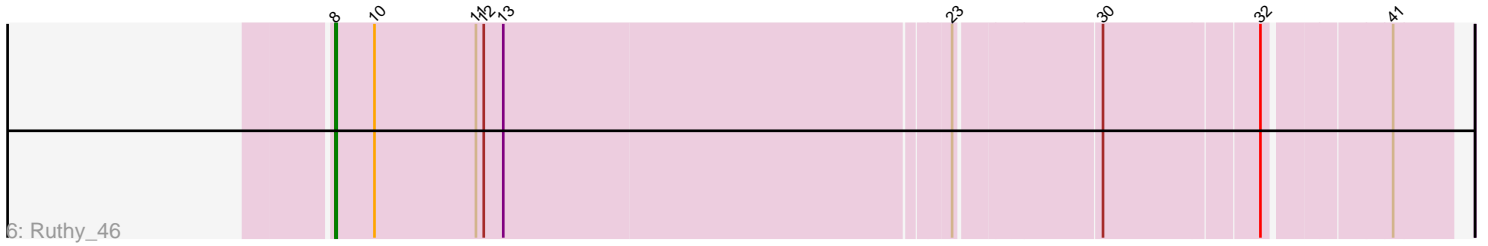
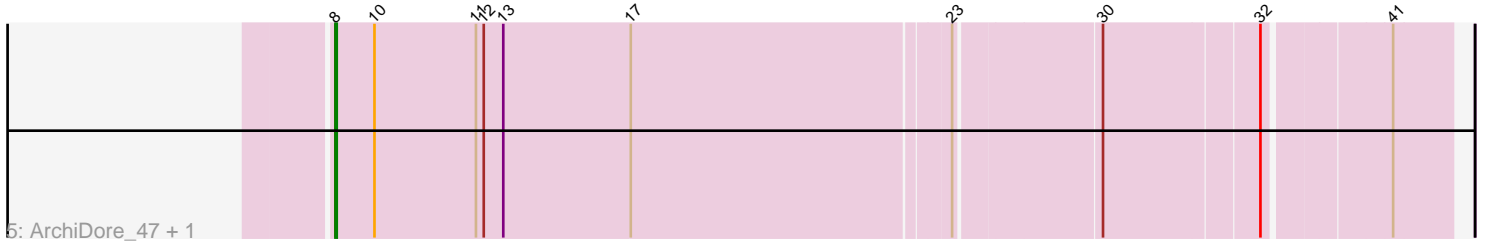
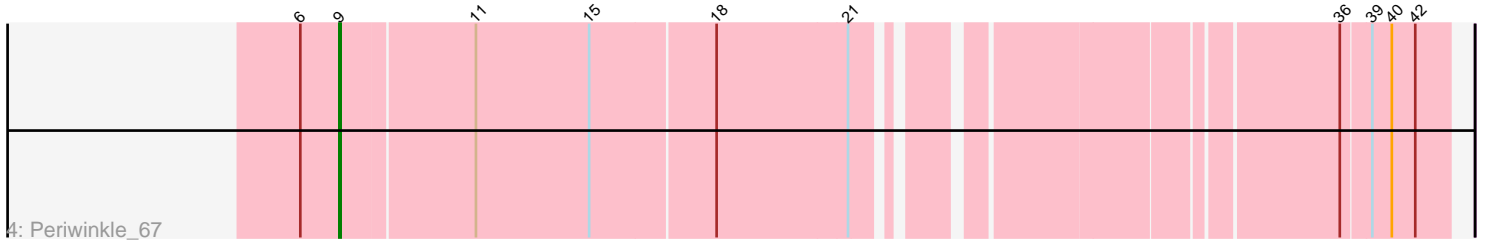
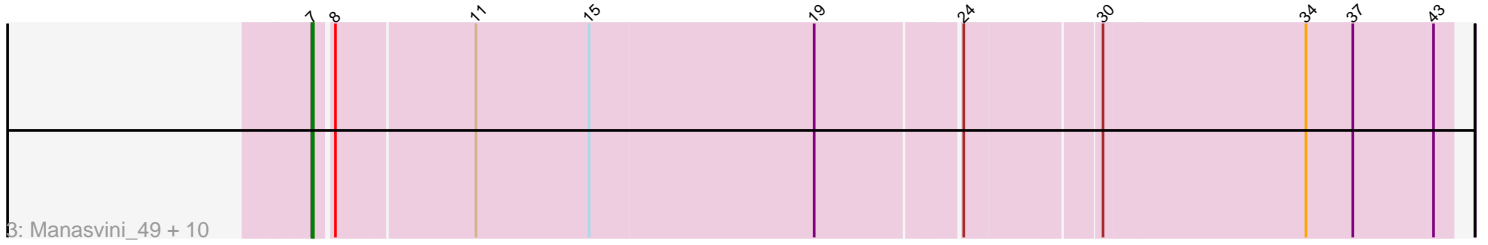
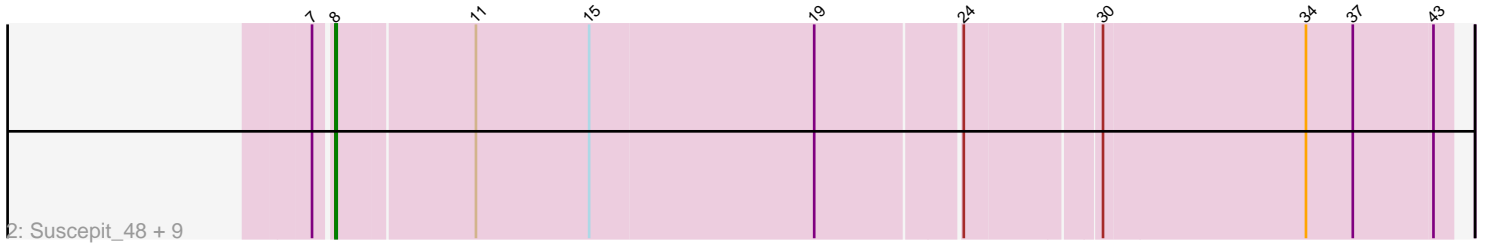
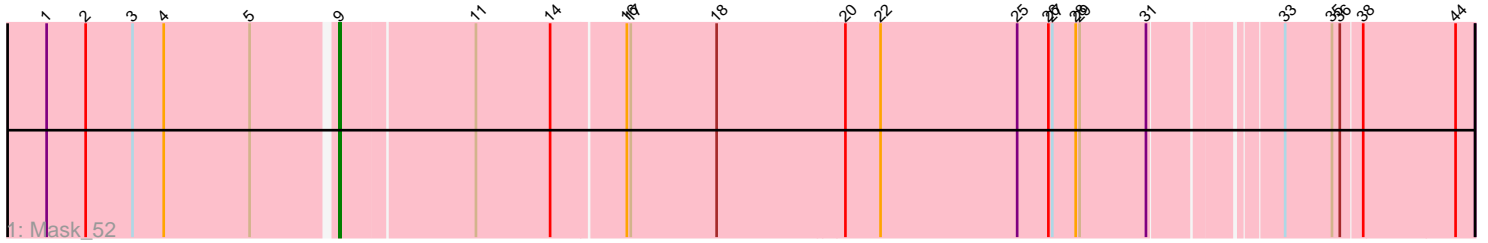


Pham 216476



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 216476 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216476 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),