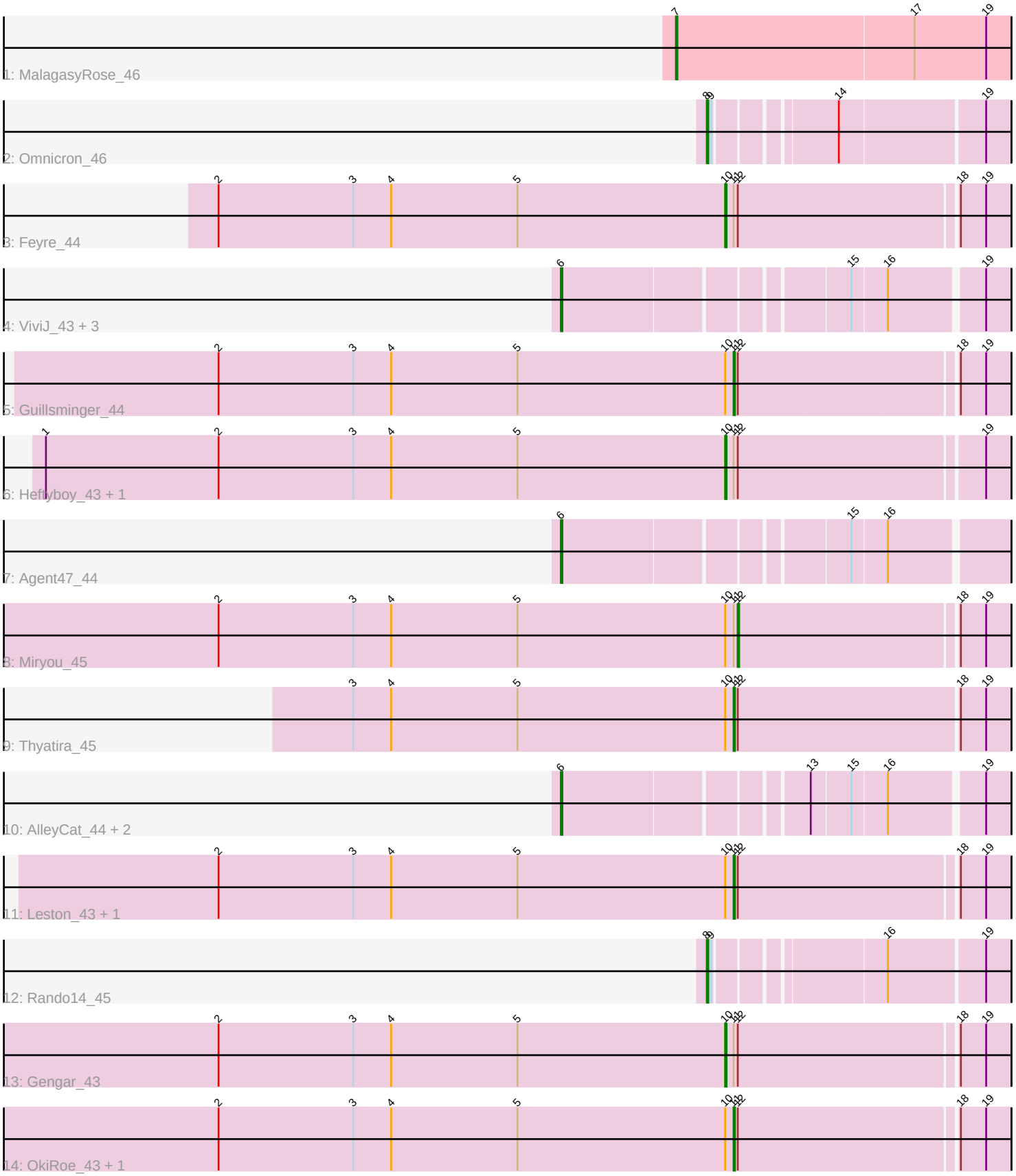
Pham 291522


1: MalagasyRose_46
2: Omnicron_46
3: Feyre_44
4: ViviJ_43 + 3
5: Guillsminger_44
6: Heffyboy_43 + 1
7: Agent47_44
8: Miryou_45
9: Thyatira_45
10: AlleyCat_44 + 2
11: Leston_43 + 1
12: Rando14_45
13: Gengar_43
14: OkiRoe_43 + 1

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 291522 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291522 has 22 members, 0 are drafts.

Phages represented in each track:
• Track 1 : MalagasyRose_46
• Track 2 : Omnicron_46
• Track 3 : Feyre_44
• Track 4 : ViviJ_43, Collard_43, Kratio_42, InvictusManeo_43
• Track 5 : Guillsminger_44
• Track 6 : Heftyboy_43, SoSeph_43
• Track 7 : Agent47_44
• Track 8 : Miryou_45
• Track 9 : Thyatira_45
• Track 10 : AlleyCat_44, Larva_44, Dadosky_44
• Track 11 : Leston_43, Waterfoul_44
• Track 12 : Rando14_45
• Track 13 : Gengar_43
• Track 14 : OkiRoe_43, Paola_43

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 8 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Agent47_44, AlleyCat_44, Collard_43, Dadosky_44, InvictusManeo_43, Kratio_42, Larva_44, ViviJ_43,

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

Genes that do not have the "Most Annotated" start:
• Feyre_44, Gengar_43, Guillsminger_44, Heftyboy_43, Leston_43, MalagasyRose_46, Miryou_45, OkiRoe_43, Omnicron_46, Paola_43, Rando14_45, SoSeph_43, Thyatira_45, Waterfoul_44,

Summary by start number:

Start 6:
• Found in 8 of 22 (36.4%) of genes in pham
• Manual Annotations of this start: 8 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Agent47_44 (K5), AlleyCat_44 (K5), Collard_43 (K5), Dadosky_44 (K5), InvictusManeo_43 (K5), Kratio_42 (K5), Larva_44 (K5), ViviJ_43 (K5),

Start 7:
• Found in 1 of 22 (4.5%) of genes in pham
• Manual Annotations of this start: 1 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MalagasyRose_46 (AG),

Start 8:
• Found in 2 of 22 (9.1%) of genes in pham
• Manual Annotations of this start: 2 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Omnicron_46 (K5), Rando14_45 (K5),

Start 10:
• Found in 11 of 22 (50.0%) of genes in pham
• Manual Annotations of this start: 4 of 22
• Called 36.4% of time when present
• Phage (with cluster) where this start called: Feyre_44 (K5), Gengar_43 (K5), Heftyboy_43 (K5), SoSeph_43 (K5),

Start 11:
• Found in 11 of 22 (50.0%) of genes in pham
• Manual Annotations of this start: 6 of 22
• Called 54.5% of time when present
• Phage (with cluster) where this start called: Guillsminger_44 (K5), Leston_43 (K5), OkiRoe_43 (K5), Paola_43 (K5), Thyatira_45 (K5), Waterfoul_44 (K5),

Start 12:
• Found in 11 of 22 (50.0%) of genes in pham
• Manual Annotations of this start: 1 of 22
• Called 9.1% of time when present
• Phage (with cluster) where this start called: Miryou_45 (K5),

Summary by clusters:

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

Info for manual annotations of cluster AG:
•Start number 7 was manually annotated 1 time for cluster AG.

Info for manual annotations of cluster K5:
•Start number 6 was manually annotated 8 times for cluster K5.
•Start number 8 was manually annotated 2 times for cluster K5.
•Start number 10 was manually annotated 4 times for cluster K5.
•Start number 11 was manually annotated 6 times for cluster K5.
•Start number 12 was manually annotated 1 time for cluster K5.

Gene Information:

Gene: Agent47_44 Start: 35017, Stop: 35307, Start Num: 6
Candidate Starts for Agent47_44:
(Start: 6 @35017 has 8 MA's), (15, 35203), (16, 35227),

Gene: AlleyCat_44 Start: 34871, Stop: 35161, Start Num: 6
Candidate Starts for AlleyCat_44:
(Start: 6 @34871 has 8 MA's), (13, 35030), (15, 35057), (16, 35081), (19, 35144),

Gene: Collard_43 Start: 34978, Stop: 35268, Start Num: 6
Candidate Starts for Collard_43:
(Start: 6 @34978 has 8 MA's), (15, 35164), (16, 35188), (19, 35251),

Gene: Dadosky_44 Start: 34873, Stop: 35163, Start Num: 6
Candidate Starts for Dadosky_44:
(Start: 6 @34873 has 8 MA's), (13, 35032), (15, 35059), (16, 35083), (19, 35146),

Gene: Feyre_44 Start: 36213, Stop: 36407, Start Num: 10
Candidate Starts for Feyre_44:
(2, 35853), (3, 35949), (4, 35976), (5, 36066), (Start: 10 @36213 has 4 MA's), (Start: 11 @36219 has 6 MA's), (Start: 12 @36222 has 1 MA's), (18, 36372), (19, 36390),

Gene: Gengar_43 Start: 34828, Stop: 35022, Start Num: 10
Candidate Starts for Gengar_43:
(2, 34468), (3, 34564), (4, 34591), (5, 34681), (Start: 10 @34828 has 4 MA's), (Start: 11 @34834 has 6 MA's), (Start: 12 @34837 has 1 MA's), (18, 34987), (19, 35005),

Gene: Guillsminger_44 Start: 34805, Stop: 34993, Start Num: 11
Candidate Starts for Guillsminger_44:
(2, 34439), (3, 34535), (4, 34562), (5, 34652), (Start: 10 @34799 has 4 MA's), (Start: 11 @34805 has 6 MA's), (Start: 12 @34808 has 1 MA's), (18, 34958), (19, 34976),

Gene: Heftyboy_43 Start: 34949, Stop: 35143, Start Num: 10
Candidate Starts for Heftyboy_43:
(1, 34466), (2, 34589), (3, 34685), (4, 34712), (5, 34802), (Start: 10 @34949 has 4 MA's), (Start: 11 @34955 has 6 MA's), (Start: 12 @34958 has 1 MA's), (19, 35126),

Gene: InvictusManeo_43 Start: 35021, Stop: 35311, Start Num: 6
Candidate Starts for InvictusManeo_43:
(Start: 6 @35021 has 8 MA's), (15, 35207), (16, 35231), (19, 35294),

Gene: Kratio_42 Start: 34572, Stop: 34862, Start Num: 6
Candidate Starts for Kratio_42:
(Start: 6 @34572 has 8 MA's), (15, 34758), (16, 34782), (19, 34845),

Gene: Larva_44 Start: 34740, Stop: 35030, Start Num: 6
Candidate Starts for Larva_44:
(Start: 6 @34740 has 8 MA's), (13, 34899), (15, 34926), (16, 34950), (19, 35013),

Gene: Leston_43 Start: 34934, Stop: 35122, Start Num: 11
Candidate Starts for Leston_43:
(2, 34568), (3, 34664), (4, 34691), (5, 34781), (Start: 10 @34928 has 4 MA's), (Start: 11 @34934 has 6 MA's), (Start: 12 @34937 has 1 MA's), (18, 35087), (19, 35105),

Gene: MalagasyRose_46 Start: 34216, Stop: 34452, Start Num: 7
Candidate Starts for MalagasyRose_46:
(Start: 7 @34216 has 1 MA's), (17, 34384), (19, 34435),

Gene: Miryou_45 Start: 37140, Stop: 37325, Start Num: 12
Candidate Starts for Miryou_45:
(2, 36771), (3, 36867), (4, 36894), (5, 36984), (Start: 10 @37131 has 4 MA's), (Start: 11 @37137 has 6 MA's), (Start: 12 @37140 has 1 MA's), (18, 37290), (19, 37308),

Gene: OkiRoe_43 Start: 34807, Stop: 34995, Start Num: 11
Candidate Starts for OkiRoe_43:
(2, 34441), (3, 34537), (4, 34564), (5, 34654), (Start: 10 @34801 has 4 MA's), (Start: 11 @34807 has 6 MA's), (Start: 12 @34810 has 1 MA's), (18, 34960), (19, 34978),

Gene: Omnicron_46 Start: 34418, Stop: 34609, Start Num: 8
Candidate Starts for Omnicron_46:
(Start: 8 @34418 has 2 MA's), (9, 34421), (14, 34493), (19, 34592),

Gene: Paola_43 Start: 34805, Stop: 34993, Start Num: 11
Candidate Starts for Paola_43:
(2, 34439), (3, 34535), (4, 34562), (5, 34652), (Start: 10 @34799 has 4 MA's), (Start: 11 @34805 has 6 MA's), (Start: 12 @34808 has 1 MA's), (18, 34958), (19, 34976),

Gene: Rando14_45 Start: 33988, Stop: 34179, Start Num: 8
Candidate Starts for Rando14_45:
(Start: 8 @33988 has 2 MA's), (9, 33991), (16, 34096), (19, 34162),

Gene: SoSeph_43 Start: 34949, Stop: 35143, Start Num: 10
Candidate Starts for SoSeph_43:
(1, 34466), (2, 34589), (3, 34685), (4, 34712), (5, 34802), (Start: 10 @34949 has 4 MA's), (Start: 11 @34955 has 6 MA's), (Start: 12 @34958 has 1 MA's), (19, 35126),

Gene: Thyatira_45 Start: 37154, Stop: 37345, Start Num: 11
Candidate Starts for Thyatira_45:
(3, 36884), (4, 36911), (5, 37001), (Start: 10 @37148 has 4 MA's), (Start: 11 @37154 has 6 MA's), (Start: 12 @37157 has 1 MA's), (18, 37310), (19, 37328),

Gene: ViviJ_43 Start: 34778, Stop: 35068, Start Num: 6
Candidate Starts for ViviJ_43:
(Start: 6 @34778 has 8 MA's), (15, 34964), (16, 34988), (19, 35051),

Gene: Waterfoul_44 Start: 35048, Stop: 35236, Start Num: 11
Candidate Starts for Waterfoul_44:
(2, 34682), (3, 34778), (4, 34805), (5, 34895), (Start: 10 @35042 has 4 MA's), (Start: 11 @35048 has 6 MA's), (Start: 12 @35051 has 1 MA's), (18, 35201), (19, 35219),