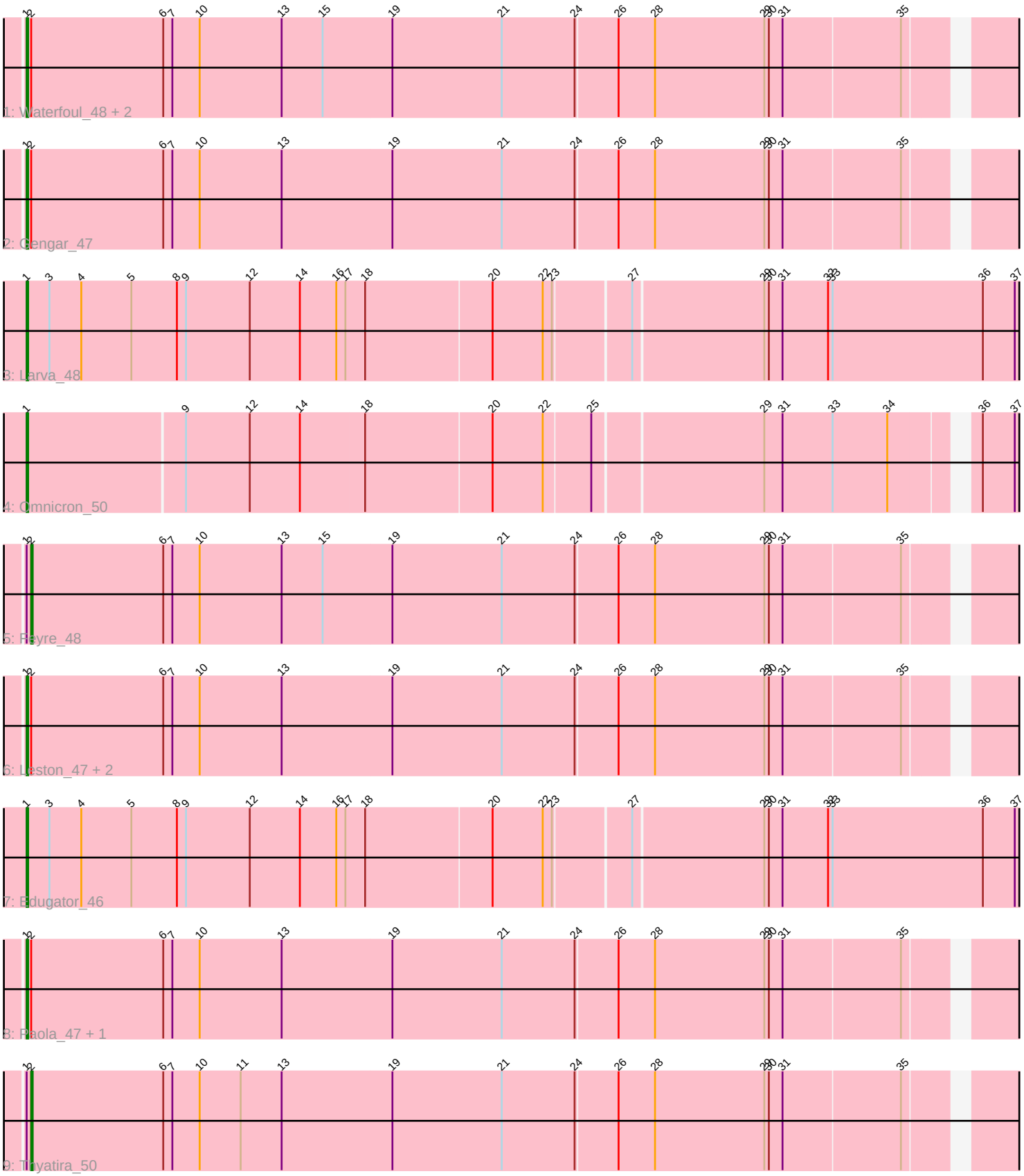
# Zoomed Pham 158267



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 158267 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158267 has 14 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Waterfoul_48, SoSeph_47, Heftyboy_47
• Track 2 : Gengar_47
• Track 3 : Larva_48
• Track 4 : Omnicron_50
• Track 5 : Feyre_48
• Track 6 : Leston_47, OkiRoe_47, Miryou_51
• Track 7 : Edugator_46
• Track 8 : Paola_47, Guillsminger_48
• Track 9 : Thyatira_50

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

The start number called the most often in the published annotations is 1, it was called in 11 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Edugator_46, Gengar_47, Guillsminger_48, Heftyboy_47, Larva_48, Leston_47, Miryou_51, OkiRoe_47, Omnicron_50, Paola_47, SoSeph_47, Waterfoul_48,

Genes that have the "Most Annotated" start but do not call it:
• Feyre_48, Thyatira_50,

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

**Summary by start number:**

Start 1:
• Found in 14 of 14 ( 100.0% ) of genes in pham
• Manual Annotations of this start: 11 of 13
• Called 85.7% of time when present
• Phage (with cluster) where this start called: Edugator_46 (K5), Gengar_47 (K5), Guillsminger_48 (K5), Heftyboy_47 (K5), Larva_48 (K5), Leston_47 (K5), Miryou_51 (K5), OkiRoe_47 (K5), Omnicron_50 (K5), Paola_47 (K5), SoSeph_47 (K5),

Waterfoul_48 (K5),

Start 2:
• Found in 11 of 14 ( 78.6% ) of genes in pham
• Manual Annotations of this start: 2 of 13
• Called 18.2% of time when present
• Phage (with cluster) where this start called: Feyre_48 (K5), Thyatira_50 (K5),

**Summary by clusters:**

There is one cluster represented in this pham: K5

Info for manual annotations of cluster K5:
•Start number 1 was manually annotated 11 times for cluster K5.
•Start number 2 was manually annotated 2 times for cluster K5.

***Gene Information:***

Gene: Edugator_46 Start: 37339, Stop: 38523, Start Num: 1
Candidate Starts for Edugator_46:
(Start: 1 @37339 has 11 MA's), (3, 37354), (4, 37375), (5, 37408), (8, 37438), (9, 37444), (12, 37486), (14, 37519), (16, 37543), (17, 37549), (18, 37561), (20, 37642), (22, 37675), (23, 37681), (27, 37729), (29, 37813), (30, 37816), (31, 37825), (32, 37855), (33, 37858), (36, 37957), (37, 37978), (38, 38017), (39, 38068), (40, 38071), (45, 38164), (46, 38215), (47, 38236), (48, 38263), (50, 38281), (55, 38353), (56, 38356), (58, 38392), (59, 38401), (61, 38425), (63, 38455), (64, 38473), (66, 38482), (67, 38488),

Gene: Feyre_48 Start: 38212, Stop: 39339, Start Num: 2
Candidate Starts for Feyre_48:
(Start: 1 @38209 has 11 MA's), (Start: 2 @38212 has 2 MA's), (6, 38299), (7, 38305), (10, 38323), (13, 38377), (15, 38404), (19, 38449), (21, 38521), (24, 38569), (26, 38596), (28, 38620), (29, 38692), (30, 38695), (31, 38704), (35, 38779), (38, 38875), (40, 38905), (41, 38908), (44, 38944), (47, 39067), (48, 39094), (49, 39097), (52, 39124), (53, 39136), (54, 39151), (55, 39169), (56, 39172), (57, 39196), (60, 39229), (62, 39247), (65, 39295), (67, 39304),

Gene: Gengar_47 Start: 36820, Stop: 37950, Start Num: 1
Candidate Starts for Gengar_47:
(Start: 1 @36820 has 11 MA's), (Start: 2 @36823 has 2 MA's), (6, 36910), (7, 36916), (10, 36934), (13, 36988), (19, 37060), (21, 37132), (24, 37180), (26, 37207), (28, 37231), (29, 37303), (30, 37306), (31, 37315), (35, 37390), (38, 37486), (40, 37516), (41, 37519), (44, 37555), (47, 37678), (48, 37705), (49, 37708), (51, 37714), (52, 37735), (53, 37747), (54, 37762), (60, 37840), (62, 37858), (65, 37906), (67, 37915),

Gene: Guillsminger_48 Start: 36791, Stop: 37921, Start Num: 1
Candidate Starts for Guillsminger_48:
(Start: 1 @36791 has 11 MA's), (Start: 2 @36794 has 2 MA's), (6, 36881), (7, 36887), (10, 36905), (13, 36959), (19, 37031), (21, 37103), (24, 37151), (26, 37178), (28, 37202), (29, 37274), (30, 37277), (31, 37286), (35, 37361), (38, 37457), (40, 37487), (41, 37490), (44, 37526), (47, 37649), (48, 37676), (49, 37679), (51, 37685), (52, 37706), (53, 37718), (54, 37733), (56, 37754), (57, 37778), (60, 37811), (62, 37829), (65, 37877), (67, 37886),

Gene: Heftyboy_47 Start: 36966, Stop: 38096, Start Num: 1

Candidate Starts for Heftyboy_47:
(Start: 1 @36966 has 11 MA's), (Start: 2 @36969 has 2 MA's), (6, 37056), (7, 37062), (10, 37080), (13, 37134), (15, 37161), (19, 37206), (21, 37278), (24, 37326), (26, 37353), (28, 37377), (29, 37449), (30, 37452), (31, 37461), (35, 37536), (38, 37632), (40, 37662), (41, 37665), (44, 37701), (47, 37824), (48, 37851), (49, 37854), (52, 37881), (53, 37893), (54, 37908), (55, 37926), (56, 37929), (57, 37953), (60, 37986), (62, 38004), (65, 38052), (67, 38061),

Gene: Larva_48 Start: 36790, Stop: 37974, Start Num: 1
Candidate Starts for Larva_48:
(Start: 1 @36790 has 11 MA's), (3, 36805), (4, 36826), (5, 36859), (8, 36889), (9, 36895), (12, 36937), (14, 36970), (16, 36994), (17, 37000), (18, 37012), (20, 37093), (22, 37126), (23, 37132), (27, 37180), (29, 37264), (30, 37267), (31, 37276), (32, 37306), (33, 37309), (36, 37408), (37, 37429), (38, 37468), (39, 37519), (40, 37522), (45, 37615), (46, 37666), (47, 37687), (48, 37714), (50, 37732), (55, 37804), (56, 37807), (58, 37843), (61, 37876), (63, 37906), (64, 37924), (66, 37933), (67, 37939),

Gene: Leston_47 Start: 36920, Stop: 38050, Start Num: 1
Candidate Starts for Leston_47:
(Start: 1 @36920 has 11 MA's), (Start: 2 @36923 has 2 MA's), (6, 37010), (7, 37016), (10, 37034), (13, 37088), (19, 37160), (21, 37232), (24, 37280), (26, 37307), (28, 37331), (29, 37403), (30, 37406), (31, 37415), (35, 37490), (38, 37586), (40, 37616), (41, 37619), (44, 37655), (47, 37778), (48, 37805), (49, 37808), (51, 37814), (52, 37835), (53, 37847), (54, 37862), (56, 37883), (57, 37907), (60, 37940), (62, 37958), (65, 38006), (67, 38015), (68, 38021),

Gene: Miryou_51 Start: 39122, Stop: 40252, Start Num: 1
Candidate Starts for Miryou_51:
(Start: 1 @39122 has 11 MA's), (Start: 2 @39125 has 2 MA's), (6, 39212), (7, 39218), (10, 39236), (13, 39290), (19, 39362), (21, 39434), (24, 39482), (26, 39509), (28, 39533), (29, 39605), (30, 39608), (31, 39617), (35, 39692), (38, 39788), (40, 39818), (41, 39821), (44, 39857), (47, 39980), (48, 40007), (49, 40010), (51, 40016), (52, 40037), (53, 40049), (54, 40064), (56, 40085), (57, 40109), (60, 40142), (62, 40160), (65, 40208), (67, 40217), (68, 40223),

Gene: OkiRoe_47 Start: 36793, Stop: 37923, Start Num: 1
Candidate Starts for OkiRoe_47:
(Start: 1 @36793 has 11 MA's), (Start: 2 @36796 has 2 MA's), (6, 36883), (7, 36889), (10, 36907), (13, 36961), (19, 37033), (21, 37105), (24, 37153), (26, 37180), (28, 37204), (29, 37276), (30, 37279), (31, 37288), (35, 37363), (38, 37459), (40, 37489), (41, 37492), (44, 37528), (47, 37651), (48, 37678), (49, 37681), (51, 37687), (52, 37708), (53, 37720), (54, 37735), (56, 37756), (57, 37780), (60, 37813), (62, 37831), (65, 37879), (67, 37888), (68, 37894),

Gene: Omnicron_50 Start: 36355, Stop: 37521, Start Num: 1
Candidate Starts for Omnicron_50:
(Start: 1 @36355 has 11 MA's), (9, 36457), (12, 36499), (14, 36532), (18, 36574), (20, 36655), (22, 36688), (25, 36718), (29, 36826), (31, 36838), (33, 36871), (34, 36907), (36, 36952), (37, 36973), (39, 37066), (40, 37069), (42, 37093), (43, 37105), (45, 37162), (46, 37213), (47, 37234), (48, 37261), (50, 37279), (55, 37351), (56, 37354), (57, 37378), (58, 37390), (61, 37423), (63, 37453), (64, 37471), (66, 37480), (67, 37486),

Gene: Paola_47 Start: 36791, Stop: 37921, Start Num: 1
Candidate Starts for Paola_47:
(Start: 1 @36791 has 11 MA's), (Start: 2 @36794 has 2 MA's), (6, 36881), (7, 36887), (10, 36905), (13, 36959), (19, 37031), (21, 37103), (24, 37151), (26, 37178), (28, 37202), (29, 37274), (30, 37277), (31, 37286), (35, 37361), (38, 37457), (40, 37487), (41, 37490), (44, 37526), (47, 37649), (48, 37676), (49, 37679), (51, 37685), (52, 37706), (53, 37718), (54, 37733), (56, 37754), (57, 37778), (60, 37811),

(62, 37829), (65, 37877), (67, 37886),

Gene: SoSeph_47 Start: 36966, Stop: 38096, Start Num: 1
Candidate Starts for SoSeph_47:
(Start: 1 @36966 has 11 MA's), (Start: 2 @36969 has 2 MA's), (6, 37056), (7, 37062), (10, 37080), (13, 37134), (15, 37161), (19, 37206), (21, 37278), (24, 37326), (26, 37353), (28, 37377), (29, 37449), (30, 37452), (31, 37461), (35, 37536), (38, 37632), (40, 37662), (41, 37665), (44, 37701), (47, 37824), (48, 37851), (49, 37854), (52, 37881), (53, 37893), (54, 37908), (55, 37926), (56, 37929), (57, 37953), (60, 37986), (62, 38004), (65, 38052), (67, 38061),

Gene: Thyatira_50 Start: 39131, Stop: 40258, Start Num: 2
Candidate Starts for Thyatira_50:
(Start: 1 @39128 has 11 MA's), (Start: 2 @39131 has 2 MA's), (6, 39218), (7, 39224), (10, 39242), (11, 39269), (13, 39296), (19, 39368), (21, 39440), (24, 39488), (26, 39515), (28, 39539), (29, 39611), (30, 39614), (31, 39623), (35, 39698), (38, 39794), (40, 39824), (41, 39827), (44, 39863), (47, 39986), (48, 40013), (49, 40016), (52, 40043), (53, 40055), (54, 40070), (55, 40088), (56, 40091), (57, 40115), (60, 40148), (62, 40166), (65, 40214), (67, 40223),

Gene: Waterfoul_48 Start: 37028, Stop: 38158, Start Num: 1
Candidate Starts for Waterfoul_48:
(Start: 1 @37028 has 11 MA's), (Start: 2 @37031 has 2 MA's), (6, 37118), (7, 37124), (10, 37142), (13, 37196), (15, 37223), (19, 37268), (21, 37340), (24, 37388), (26, 37415), (28, 37439), (29, 37511), (30, 37514), (31, 37523), (35, 37598), (38, 37694), (40, 37724), (41, 37727), (44, 37763), (47, 37886), (48, 37913), (49, 37916), (52, 37943), (53, 37955), (54, 37970), (55, 37988), (56, 37991), (57, 38015), (60, 38048), (62, 38066), (65, 38114), (67, 38123),