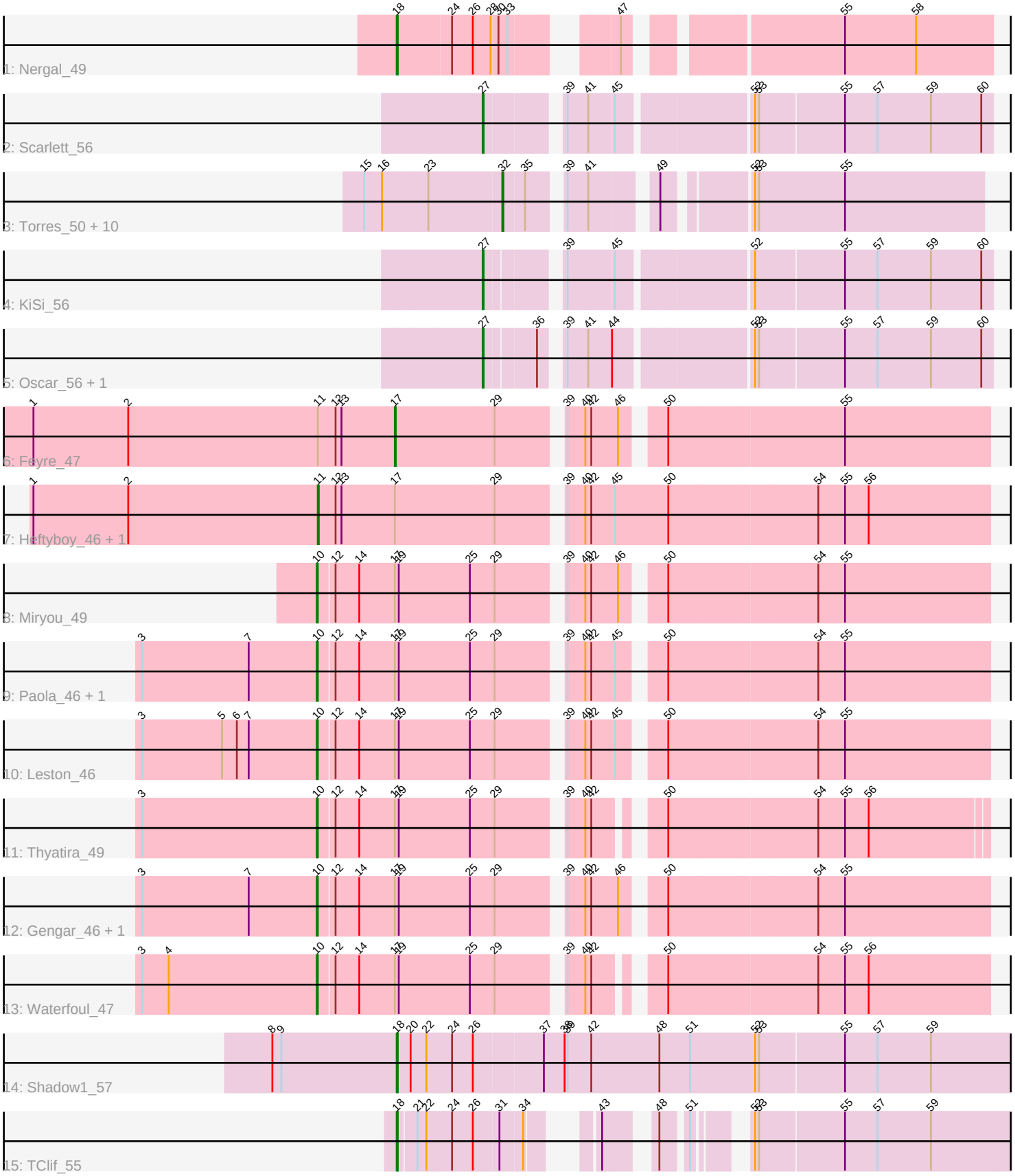
Pham 347912


1: Nergal_49
2: Scarlett_56
3: Torres_50 + 10
4: KiSi_56
5: Oscar_56 + 1
6: Feyre_47
7: Heftyboy_46 + 1
8: Miryou_49
9: Paola_46 + 1
10: Leston_46
11: Thyatira_49
12: Gengar_46 + 1
13: Waterfoul_47
14: Shadow1_57
15: TClif_55

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 347912 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347912 has 29 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Nergal_49
• Track 2 : Scarlett_56
• Track 3 : Torres_50, Teejan_49, Biglebops_47, LilPharaoh_47, Nikao_50, Trice_47, Nutello_47, Enkosi_49, SgtBeansprout_47, Mdavu_48, Amelie_47
• Track 4 : KiSi_56
• Track 5 : Oscar_56, LeMond_56
• Track 6 : Feyre_47
• Track 7 : Heftyboy_46, SoSeph_46
• Track 8 : Miryou_49
• Track 9 : Paola_46, Guillsminger_47
• Track 10 : Leston_46
• Track 11 : Thyatira_49
• Track 12 : Gengar_46, OkiRoe_46
• Track 13 : Waterfoul_47
• Track 14 : Shadow1_57
• Track 15 : TClif_55

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

The start number called the most often in the published annotations is 32, it was called in 9 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Amelie_47, Biglebops_47, Enkosi_49, LilPharaoh_47, Mdavu_48, Nikao_50, Nutello_47, SgtBeansprout_47, Teejan_49, Torres_50, Trice_47,

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

Genes that do not have the "Most Annotated" start:
• Feyre_47, Gengar_46, Guillsminger_47, Heftyboy_46, KiSi_56, LeMond_56, Leston_46, Miryou_49, Nergal_49, OkiRoe_46, Oscar_56, Paola_46, Scarlett_56, Shadow1_57, SoSeph_46, TClif_55, Thyatira_49, Waterfoul_47,

Summary by start number:

Start 10:
• Found in 8 of 29 (27.6%) of genes in pham
• Manual Annotations of this start: 8 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gengar_46 (K5), Guillsminger_47 (K5), Leston_46 (K5), Miryou_49 (K5), OkiRoe_46 (K5), Paola_46 (K5), Thyatira_49 (K5), Waterfoul_47 (K5),

Start 11:
• Found in 3 of 29 (10.3%) of genes in pham
• Manual Annotations of this start: 2 of 27
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Heftyboy_46 (K5), SoSeph_46 (K5),

Start 17:
• Found in 11 of 29 (37.9%) of genes in pham
• Manual Annotations of this start: 1 of 27
• Called 9.1% of time when present
• Phage (with cluster) where this start called: Feyre_47 (K5),

Start 18:
• Found in 3 of 29 (10.3%) of genes in pham
• Manual Annotations of this start: 3 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Nergal_49 (AG), Shadow1_57 (K6), TClif_55 (K6),

Start 27:
• Found in 4 of 29 (13.8%) of genes in pham
• Manual Annotations of this start: 4 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: KiSi_56 (K1), LeMond_56 (K1), Oscar_56 (K1), Scarlett_56 (K1),

Start 32:
• Found in 11 of 29 (37.9%) of genes in pham
• Manual Annotations of this start: 9 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amelie_47 (K1), Biglebops_47 (K1), Enkosi_49 (K1), LilPharaoh_47 (K1), Mdavu_48 (K1), Nikao_50 (K1), Nutello_47 (K1), SgtBeansprout_47 (K1), Teejan_49 (K1), Torres_50 (K1), Trice_47 (K1),

Summary by clusters:

There are 4 clusters represented in this pham: AG, K1, K6, K5,

Info for manual annotations of cluster AG:
•Start number 18 was manually annotated 1 time for cluster AG.

Info for manual annotations of cluster K1:
•Start number 27 was manually annotated 4 times for cluster K1.

•Start number 32 was manually annotated 9 times for cluster K1.

Info for manual annotations of cluster K5:
•Start number 10 was manually annotated 8 times for cluster K5.
•Start number 11 was manually annotated 2 times for cluster K5.
•Start number 17 was manually annotated 1 time for cluster K5.

Info for manual annotations of cluster K6:
•Start number 18 was manually annotated 2 times for cluster K6.

Gene Information:

Gene: Amelie_47 Start: 37306, Stop: 37731, Start Num: 32
Candidate Starts for Amelie_47:
(15, 37171), (16, 37189), (23, 37234), (Start: 32 @37306 has 9 MA's), (35, 37327), (39, 37354), (41, 37375), (49, 37429), (52, 37501), (53, 37504), (55, 37591),

Gene: Biglebops_47 Start: 37306, Stop: 37731, Start Num: 32
Candidate Starts for Biglebops_47:
(15, 37171), (16, 37189), (23, 37234), (Start: 32 @37306 has 9 MA's), (35, 37327), (39, 37354), (41, 37375), (49, 37429), (52, 37501), (53, 37504), (55, 37591),

Gene: Enkosi_49 Start: 39919, Stop: 40344, Start Num: 32
Candidate Starts for Enkosi_49:
(15, 39784), (16, 39802), (23, 39847), (Start: 32 @39919 has 9 MA's), (35, 39940), (39, 39967), (41, 39988), (49, 40042), (52, 40114), (53, 40117), (55, 40204),

Gene: Feyre_47 Start: 37611, Stop: 38171, Start Num: 17
Candidate Starts for Feyre_47:
(1, 37245), (2, 37341), (Start: 11 @37533 has 2 MA's), (12, 37551), (13, 37557), (Start: 17 @37611 has 1 MA's), (29, 37710), (39, 37767), (40, 37785), (42, 37791), (46, 37818), (50, 37851), (55, 38025),

Gene: Gengar_46 Start: 36147, Stop: 36782, Start Num: 10
Candidate Starts for Gengar_46:
(3, 35970), (7, 36078), (Start: 10 @36147 has 8 MA's), (12, 36162), (14, 36186), (Start: 17 @36222 has 1 MA's), (19, 36225), (25, 36297), (29, 36321), (39, 36378), (40, 36396), (42, 36402), (46, 36429), (50, 36462), (54, 36609), (55, 36636),

Gene: Guillsminger_47 Start: 36118, Stop: 36753, Start Num: 10
Candidate Starts for Guillsminger_47:
(3, 35941), (7, 36049), (Start: 10 @36118 has 8 MA's), (12, 36133), (14, 36157), (Start: 17 @36193 has 1 MA's), (19, 36196), (25, 36268), (29, 36292), (39, 36349), (40, 36367), (42, 36373), (45, 36397), (50, 36433), (54, 36580), (55, 36607),

Gene: Heftyboy_46 Start: 36269, Stop: 36925, Start Num: 11
Candidate Starts for Heftyboy_46:
(1, 35981), (2, 36077), (Start: 11 @36269 has 2 MA's), (12, 36287), (13, 36293), (Start: 17 @36347 has 1 MA's), (29, 36446), (39, 36503), (40, 36521), (42, 36527), (45, 36551), (50, 36605), (54, 36752), (55, 36779), (56, 36803),

Gene: KiSi_56 Start: 38953, Stop: 39420, Start Num: 27

Candidate Starts for KiSi_56:
(Start: 27 @38953 has 4 MA's), (39, 39016), (45, 39061), (52, 39184), (55, 39271), (57, 39304), (59, 39358), (60, 39409),

Gene: LeMond_56 Start: 38937, Stop: 39401, Start Num: 27
Candidate Starts for LeMond_56:
(Start: 27 @38937 has 4 MA's), (36, 38982), (39, 38997), (41, 39018), (44, 39039), (52, 39165), (53, 39168), (55, 39252), (57, 39285), (59, 39339), (60, 39390),

Gene: Leston_46 Start: 36247, Stop: 36882, Start Num: 10
Candidate Starts for Leston_46:
(3, 36070), (5, 36151), (6, 36166), (7, 36178), (Start: 10 @36247 has 8 MA's), (12, 36262), (14, 36286), (Start: 17 @36322 has 1 MA's), (19, 36325), (25, 36397), (29, 36421), (39, 36478), (40, 36496), (42, 36502), (45, 36526), (50, 36562), (54, 36709), (55, 36736),

Gene: LilPharaoh_47 Start: 37034, Stop: 37459, Start Num: 32
Candidate Starts for LilPharaoh_47:
(15, 36899), (16, 36917), (23, 36962), (Start: 32 @37034 has 9 MA's), (35, 37055), (39, 37082), (41, 37103), (49, 37157), (52, 37229), (53, 37232), (55, 37319),

Gene: Mdavu_48 Start: 37295, Stop: 37720, Start Num: 32
Candidate Starts for Mdavu_48:
(15, 37160), (16, 37178), (23, 37223), (Start: 32 @37295 has 9 MA's), (35, 37316), (39, 37343), (41, 37364), (49, 37418), (52, 37490), (53, 37493), (55, 37580),

Gene: Miryou_49 Start: 38449, Stop: 39084, Start Num: 10
Candidate Starts for Miryou_49:
(Start: 10 @38449 has 8 MA's), (12, 38464), (14, 38488), (Start: 17 @38524 has 1 MA's), (19, 38527), (25, 38599), (29, 38623), (39, 38680), (40, 38698), (42, 38704), (46, 38731), (50, 38764), (54, 38911), (55, 38938),

Gene: Nergal_49 Start: 36269, Stop: 36790, Start Num: 18
Candidate Starts for Nergal_49:
(Start: 18 @36269 has 3 MA's), (24, 36323), (26, 36344), (28, 36362), (30, 36368), (33, 36377), (47, 36455), (55, 36641), (58, 36713),

Gene: Nikao_50 Start: 39919, Stop: 40344, Start Num: 32
Candidate Starts for Nikao_50:
(15, 39784), (16, 39802), (23, 39847), (Start: 32 @39919 has 9 MA's), (35, 39940), (39, 39967), (41, 39988), (49, 40042), (52, 40114), (53, 40117), (55, 40204),

Gene: Nutello_47 Start: 37306, Stop: 37731, Start Num: 32
Candidate Starts for Nutello_47:
(15, 37171), (16, 37189), (23, 37234), (Start: 32 @37306 has 9 MA's), (35, 37327), (39, 37354), (41, 37375), (49, 37429), (52, 37501), (53, 37504), (55, 37591),

Gene: OkiRoe_46 Start: 36120, Stop: 36755, Start Num: 10
Candidate Starts for OkiRoe_46:
(3, 35943), (7, 36051), (Start: 10 @36120 has 8 MA's), (12, 36135), (14, 36159), (Start: 17 @36195 has 1 MA's), (19, 36198), (25, 36270), (29, 36294), (39, 36351), (40, 36369), (42, 36375), (46, 36402), (50, 36435), (54, 36582), (55, 36609),

Gene: Oscar_56 Start: 38839, Stop: 39306, Start Num: 27

Candidate Starts for Oscar_56:
(Start: 27 @38839 has 4 MA's), (36, 38887), (39, 38902), (41, 38923), (44, 38944), (52, 39070), (53, 39073), (55, 39157), (57, 39190), (59, 39244), (60, 39295),

Gene: Paola_46 Start: 36118, Stop: 36753, Start Num: 10
Candidate Starts for Paola_46:
(3, 35941), (7, 36049), (Start: 10 @36118 has 8 MA's), (12, 36133), (14, 36157), (Start: 17 @36193 has 1 MA's), (19, 36196), (25, 36268), (29, 36292), (39, 36349), (40, 36367), (42, 36373), (45, 36397), (50, 36433), (54, 36580), (55, 36607),

Gene: Scarlett_56 Start: 38831, Stop: 39301, Start Num: 27
Candidate Starts for Scarlett_56:
(Start: 27 @38831 has 4 MA's), (39, 38897), (41, 38918), (45, 38942), (52, 39065), (53, 39068), (55, 39152), (57, 39185), (59, 39239), (60, 39290),

Gene: SgtBeansprout_47 Start: 37306, Stop: 37731, Start Num: 32
Candidate Starts for SgtBeansprout_47:
(15, 37171), (16, 37189), (23, 37234), (Start: 32 @37306 has 9 MA's), (35, 37327), (39, 37354), (41, 37375), (49, 37429), (52, 37501), (53, 37504), (55, 37591),

Gene: Shadow1_57 Start: 38538, Stop: 39143, Start Num: 18
Candidate Starts for Shadow1_57:
(8, 38412), (9, 38421), (Start: 18 @38538 has 3 MA's), (20, 38550), (22, 38565), (24, 38589), (26, 38610), (37, 38676), (38, 38697), (39, 38700), (42, 38724), (48, 38793), (51, 38823), (52, 38889), (53, 38892), (55, 38976), (57, 39009), (59, 39063),

Gene: SoSeph_46 Start: 36269, Stop: 36925, Start Num: 11
Candidate Starts for SoSeph_46:
(1, 35981), (2, 36077), (Start: 11 @36269 has 2 MA's), (12, 36287), (13, 36293), (Start: 17 @36347 has 1 MA's), (29, 36446), (39, 36503), (40, 36521), (42, 36527), (45, 36551), (50, 36605), (54, 36752), (55, 36779), (56, 36803),

Gene: TClif_55 Start: 38682, Stop: 39194, Start Num: 18
Candidate Starts for TClif_55:
(Start: 18 @38682 has 3 MA's), (21, 38697), (22, 38706), (24, 38730), (26, 38751), (31, 38775), (34, 38796), (43, 38832), (48, 38868), (51, 38889), (52, 38925), (53, 38928), (55, 39012), (57, 39045), (59, 39099),

Gene: Teejan_49 Start: 39919, Stop: 40344, Start Num: 32
Candidate Starts for Teejan_49:
(15, 39784), (16, 39802), (23, 39847), (Start: 32 @39919 has 9 MA's), (35, 39940), (39, 39967), (41, 39988), (49, 40042), (52, 40114), (53, 40117), (55, 40204),

Gene: Thyatira_49 Start: 38470, Stop: 39090, Start Num: 10
Candidate Starts for Thyatira_49:
(3, 38293), (Start: 10 @38470 has 8 MA's), (12, 38485), (14, 38509), (Start: 17 @38545 has 1 MA's), (19, 38548), (25, 38620), (29, 38644), (39, 38701), (40, 38719), (42, 38725), (50, 38776), (54, 38923), (55, 38950), (56, 38974),

Gene: Torres_50 Start: 39920, Stop: 40345, Start Num: 32
Candidate Starts for Torres_50:
(15, 39785), (16, 39803), (23, 39848), (Start: 32 @39920 has 9 MA's), (35, 39941), (39, 39968), (41, 39989), (49, 40043), (52, 40115), (53, 40118), (55, 40205),

Gene: Trice_47 Start: 37307, Stop: 37732, Start Num: 32
Candidate Starts for Trice_47:
(15, 37172), (16, 37190), (23, 37235), (Start: 32 @37307 has 9 MA's), (35, 37328), (39, 37355), (41, 37376), (49, 37430), (52, 37502), (53, 37505), (55, 37592),

Gene: Waterfoul_47 Start: 36361, Stop: 36987, Start Num: 10
Candidate Starts for Waterfoul_47:
(3, 36184), (4, 36211), (Start: 10 @36361 has 8 MA's), (12, 36376), (14, 36400), (Start: 17 @36436 has 1 MA's), (19, 36439), (25, 36511), (29, 36535), (39, 36592), (40, 36610), (42, 36616), (50, 36667), (54, 36814), (55, 36841), (56, 36865),