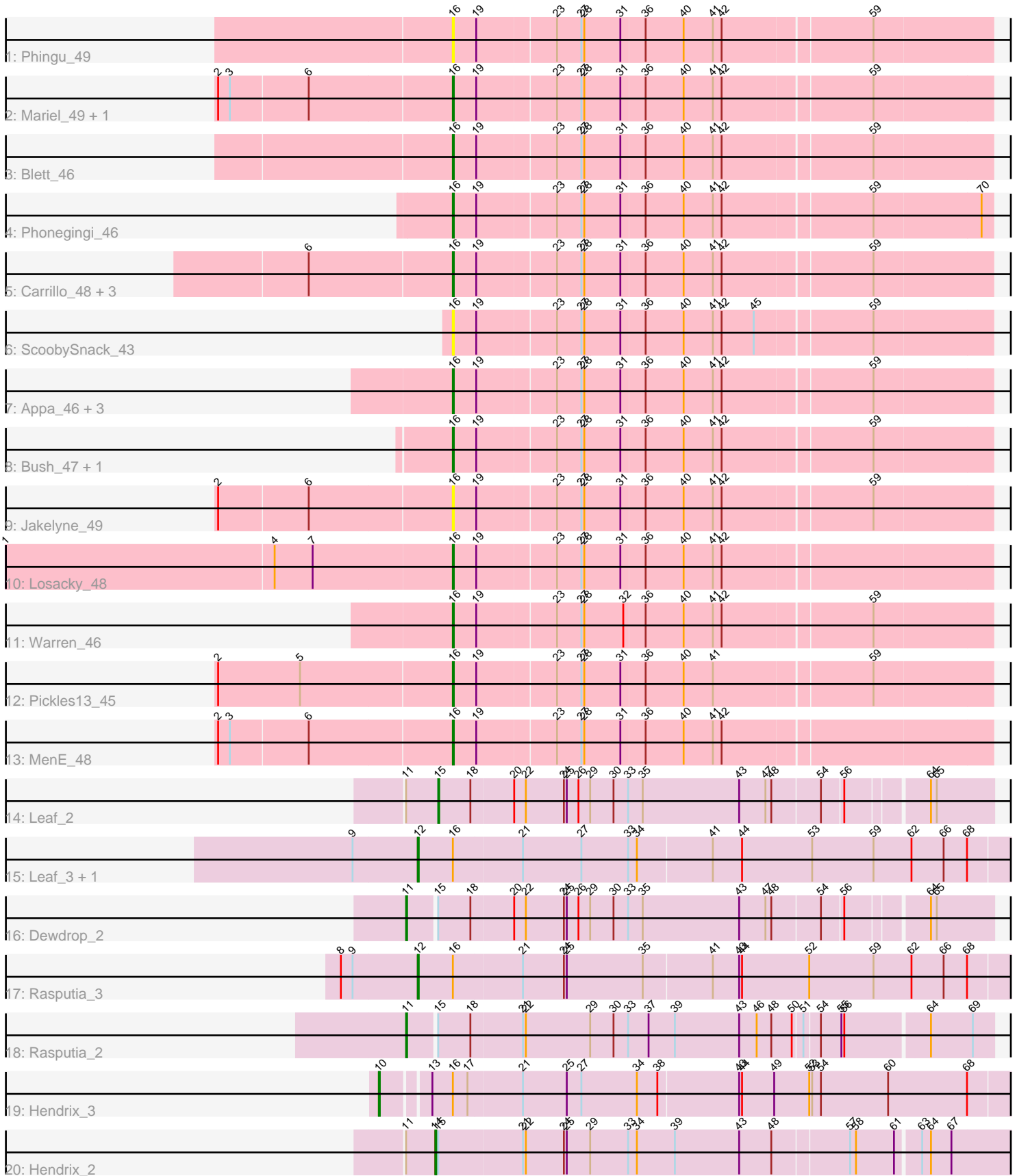


Pham 311891



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 311891 Report

This analysis was run 06/27/26 on database version 652.

Pham number 311891 has 29 members, 10 are drafts.

Phages represented in each track:

- Track 1 : Phingu_49
- Track 2 : Mariel_49, Antuna_48
- Track 3 : Blett_46
- Track 4 : Phonegingi_46
- Track 5 : Carrillo_48, Guzman_46, CookieDog_46, Violeta_48
- Track 6 : ScoobySnack_43
- Track 7 : Appa_46, Winchester007_62, PhillyJawn_47, Dropshot_46
- Track 8 : Bush_47, NCRodriguez_48
- Track 9 : Jakelyne_49
- Track 10 : Losacky_48
- Track 11 : Warren_46
- Track 12 : Pickles13_45
- Track 13 : MenE_48
- Track 14 : Leaf_2
- Track 15 : Leaf_3, Dewdrop_3
- Track 16 : Dewdrop_2
- Track 17 : Rasputia_3
- Track 18 : Rasputia_2
- Track 19 : Hendrix_3
- Track 20 : Hendrix_2

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

The start number called the most often in the published annotations is 16, it was called in 11 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Antuna_48, Appa_46, Blett_46, Bush_47, Carrillo_48, CookieDog_46, Dropshot_46, Guzman_46, Jakelyne_49, Losacky_48, Mariel_49, MenE_48, NCRodriguez_48, PhillyJawn_47, Phingu_49, Phonegingi_46, Pickles13_45, ScoobySnack_43, Violeta_48, Warren_46, Winchester007_62,

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

- Dewdrop_3, Hendrix_3, Leaf_3, Rasputia_3,

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

- Dewdrop_2, Hendrix_2, Leaf_2, Rasputia_2,

Summary by start number:

Start 10:

- Found in 1 of 29 (3.4%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hendrix_3 (GC),

Start 11:

- Found in 4 of 29 (13.8%) of genes in pham
- Manual Annotations of this start: 2 of 19
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Dewdrop_2 (GC), Rasputia_2 (GC),

Start 12:

- Found in 3 of 29 (10.3%) of genes in pham
- Manual Annotations of this start: 3 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dewdrop_3 (GC), Leaf_3 (GC), Rasputia_3 (GC),

Start 14:

- Found in 1 of 29 (3.4%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hendrix_2 (GC),

Start 15:

- Found in 4 of 29 (13.8%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Leaf_2 (GC),

Start 16:

- Found in 25 of 29 (86.2%) of genes in pham
- Manual Annotations of this start: 11 of 19
- Called 84.0% of time when present
- Phage (with cluster) where this start called: Antuna_48 (GA), Appa_46 (GA), Blett_46 (GA), Bush_47 (GA), Carrillo_48 (GA), CookieDog_46 (GA), Dropshot_46 (GA), Guzman_46 (GA), Jakelyne_49 (GA), Losacky_48 (GA), Mariel_49 (GA), MenE_48 (GA), NCRodriguez_48 (GA), PhillyJawn_47 (GA), Phingu_49 (GA), Phonegingi_46 (GA), Pickles13_45 (GA), ScoobySnack_43 (GA), Violeta_48 (GA), Warren_46 (GA), Winchester007_62 (GA),

Summary by clusters:

There are 2 clusters represented in this pham: GC, GA,

Info for manual annotations of cluster GA:

- Start number 16 was manually annotated 11 times for cluster GA.

Info for manual annotations of cluster GC:

- Start number 10 was manually annotated 1 time for cluster GC.
- Start number 11 was manually annotated 2 times for cluster GC.
- Start number 12 was manually annotated 3 times for cluster GC.
- Start number 14 was manually annotated 1 time for cluster GC.
- Start number 15 was manually annotated 1 time for cluster GC.

Gene Information:

Gene: Antuna_48 Start: 29370, Stop: 29903, Start Num: 16

Candidate Starts for Antuna_48:

(2, 29136), (3, 29148), (6, 29226), (Start: 16 @29370 has 11 MA's), (19, 29394), (23, 29472), (27, 29496), (28, 29499), (31, 29535), (36, 29559), (40, 29598), (41, 29628), (42, 29637), (59, 29784),

Gene: Appa_46 Start: 29135, Stop: 29668, Start Num: 16

Candidate Starts for Appa_46:

(Start: 16 @29135 has 11 MA's), (19, 29159), (23, 29237), (27, 29261), (28, 29264), (31, 29300), (36, 29324), (40, 29363), (41, 29393), (42, 29402), (59, 29549),

Gene: Blett_46 Start: 29321, Stop: 29854, Start Num: 16

Candidate Starts for Blett_46:

(Start: 16 @29321 has 11 MA's), (19, 29345), (23, 29423), (27, 29447), (28, 29450), (31, 29486), (36, 29510), (40, 29549), (41, 29579), (42, 29588), (59, 29735),

Gene: Bush_47 Start: 29269, Stop: 29802, Start Num: 16

Candidate Starts for Bush_47:

(Start: 16 @29269 has 11 MA's), (19, 29293), (23, 29371), (27, 29395), (28, 29398), (31, 29434), (36, 29458), (40, 29497), (41, 29527), (42, 29536), (59, 29683),

Gene: Carrillo_48 Start: 29243, Stop: 29776, Start Num: 16

Candidate Starts for Carrillo_48:

(6, 29099), (Start: 16 @29243 has 11 MA's), (19, 29267), (23, 29345), (27, 29369), (28, 29372), (31, 29408), (36, 29432), (40, 29471), (41, 29501), (42, 29510), (59, 29657),

Gene: CookieDog_46 Start: 29243, Stop: 29776, Start Num: 16

Candidate Starts for CookieDog_46:

(6, 29099), (Start: 16 @29243 has 11 MA's), (19, 29267), (23, 29345), (27, 29369), (28, 29372), (31, 29408), (36, 29432), (40, 29471), (41, 29501), (42, 29510), (59, 29657),

Gene: Dewdrop_2 Start: 713, Stop: 1285, Start Num: 11

Candidate Starts for Dewdrop_2:

(Start: 11 @713 has 2 MA's), (Start: 15 @740 has 1 MA's), (18, 773), (20, 815), (22, 827), (24, 866), (25, 869), (26, 881), (29, 893), (30, 917), (33, 932), (35, 947), (43, 1046), (47, 1073), (48, 1079), (54, 1127), (56, 1148), (64, 1223), (65, 1229),

Gene: Dewdrop_3 Start: 1282, Stop: 1884, Start Num: 12

Candidate Starts for Dewdrop_3:

(9, 1216), (Start: 12 @1282 has 3 MA's), (Start: 16 @1318 has 11 MA's), (21, 1387), (27, 1447), (33, 1495), (34, 1504), (41, 1579), (44, 1609), (53, 1681), (59, 1744), (62, 1783), (66, 1816), (68, 1840),

Gene: Dropshot_46 Start: 28970, Stop: 29503, Start Num: 16

Candidate Starts for Dropshot_46:

(Start: 16 @28970 has 11 MA's), (19, 28994), (23, 29072), (27, 29096), (28, 29099), (31, 29135), (36, 29159), (40, 29198), (41, 29228), (42, 29237), (59, 29384),

Gene: Guzman_46 Start: 29226, Stop: 29759, Start Num: 16

Candidate Starts for Guzman_46:

(6, 29082), (Start: 16 @29226 has 11 MA's), (19, 29250), (23, 29328), (27, 29352), (28, 29355), (31, 29391), (36, 29415), (40, 29454), (41, 29484), (42, 29493), (59, 29640),

Gene: Hendrix_3 Start: 1375, Stop: 2007, Start Num: 10

Candidate Starts for Hendrix_3:

(Start: 10 @1375 has 1 MA's), (13, 1420), (Start: 16 @1441 has 11 MA's), (17, 1456), (21, 1510), (25, 1555), (27, 1570), (34, 1627), (38, 1648), (43, 1729), (44, 1732), (49, 1765), (52, 1801), (53, 1804), (54, 1813), (60, 1882), (68, 1963),

Gene: Hendrix_2 Start: 803, Stop: 1378, Start Num: 14

Candidate Starts for Hendrix_2:

(Start: 11 @773 has 2 MA's), (Start: 14 @803 has 1 MA's), (Start: 15 @806 has 1 MA's), (21, 890), (22, 893), (24, 932), (25, 935), (29, 959), (33, 998), (34, 1007), (39, 1046), (43, 1112), (48, 1145), (57, 1220), (58, 1226), (61, 1265), (63, 1286), (64, 1295), (67, 1316),

Gene: Jakelyne_49 Start: 29336, Stop: 29869, Start Num: 16

Candidate Starts for Jakelyne_49:

(2, 29102), (6, 29192), (Start: 16 @29336 has 11 MA's), (19, 29360), (23, 29438), (27, 29462), (28, 29465), (31, 29501), (36, 29525), (40, 29564), (41, 29594), (42, 29603), (59, 29750),

Gene: Leaf_2 Start: 740, Stop: 1285, Start Num: 15

Candidate Starts for Leaf_2:

(Start: 11 @713 has 2 MA's), (Start: 15 @740 has 1 MA's), (18, 773), (20, 815), (22, 827), (24, 866), (25, 869), (26, 881), (29, 893), (30, 917), (33, 932), (35, 947), (43, 1046), (47, 1073), (48, 1079), (54, 1127), (56, 1148), (64, 1223), (65, 1229),

Gene: Leaf_3 Start: 1282, Stop: 1884, Start Num: 12

Candidate Starts for Leaf_3:

(9, 1216), (Start: 12 @1282 has 3 MA's), (Start: 16 @1318 has 11 MA's), (21, 1387), (27, 1447), (33, 1495), (34, 1504), (41, 1579), (44, 1609), (53, 1681), (59, 1744), (62, 1783), (66, 1816), (68, 1840),

Gene: Losacky_48 Start: 29501, Stop: 30034, Start Num: 16

Candidate Starts for Losacky_48:

(1, 29048), (4, 29321), (7, 29360), (Start: 16 @29501 has 11 MA's), (19, 29525), (23, 29603), (27, 29627), (28, 29630), (31, 29666), (36, 29690), (40, 29729), (41, 29759), (42, 29768),

Gene: Mariel_49 Start: 29708, Stop: 30241, Start Num: 16

Candidate Starts for Mariel_49:

(2, 29474), (3, 29486), (6, 29564), (Start: 16 @29708 has 11 MA's), (19, 29732), (23, 29810), (27, 29834), (28, 29837), (31, 29873), (36, 29897), (40, 29936), (41, 29966), (42, 29975), (59, 30122),

Gene: MenE_48 Start: 29392, Stop: 29925, Start Num: 16

Candidate Starts for MenE_48:

(2, 29158), (3, 29170), (6, 29248), (Start: 16 @29392 has 11 MA's), (19, 29416), (23, 29494), (27, 29518), (28, 29521), (31, 29557), (36, 29581), (40, 29620), (41, 29650), (42, 29659),

Gene: NCRodriguez_48 Start: 29462, Stop: 29995, Start Num: 16

Candidate Starts for NCRodriguez_48:

(Start: 16 @29462 has 11 MA's), (19, 29486), (23, 29564), (27, 29588), (28, 29591), (31, 29627), (36, 29651), (40, 29690), (41, 29720), (42, 29729), (59, 29876),

Gene: PhillyJawn_47 Start: 29132, Stop: 29665, Start Num: 16

Candidate Starts for PhillyJawn_47:

(Start: 16 @29132 has 11 MA's), (19, 29156), (23, 29234), (27, 29258), (28, 29261), (31, 29297), (36, 29321), (40, 29360), (41, 29390), (42, 29399), (59, 29546),

Gene: Phingu_49 Start: 29357, Stop: 29890, Start Num: 16

Candidate Starts for Phingu_49:

(Start: 16 @29357 has 11 MA's), (19, 29381), (23, 29459), (27, 29483), (28, 29486), (31, 29522), (36, 29546), (40, 29585), (41, 29615), (42, 29624), (59, 29771),

Gene: Phonegingi_46 Start: 29171, Stop: 29704, Start Num: 16

Candidate Starts for Phonegingi_46:

(Start: 16 @29171 has 11 MA's), (19, 29195), (23, 29273), (27, 29297), (28, 29300), (31, 29336), (36, 29360), (40, 29399), (41, 29429), (42, 29438), (59, 29585), (70, 29693),

Gene: Pickles13_45 Start: 29439, Stop: 29972, Start Num: 16

Candidate Starts for Pickles13_45:

(2, 29202), (5, 29286), (Start: 16 @29439 has 11 MA's), (19, 29463), (23, 29541), (27, 29565), (28, 29568), (31, 29604), (36, 29628), (40, 29667), (41, 29697), (59, 29853),

Gene: Rasputia_3 Start: 1288, Stop: 1890, Start Num: 12

Candidate Starts for Rasputia_3:

(8, 1210), (9, 1222), (Start: 12 @1288 has 3 MA's), (Start: 16 @1324 has 11 MA's), (21, 1393), (24, 1435), (25, 1438), (35, 1516), (41, 1585), (43, 1612), (44, 1615), (52, 1684), (59, 1750), (62, 1789), (66, 1822), (68, 1846),

Gene: Rasputia_2 Start: 713, Stop: 1291, Start Num: 11

Candidate Starts for Rasputia_2:

(Start: 11 @713 has 2 MA's), (Start: 15 @740 has 1 MA's), (18, 773), (21, 824), (22, 827), (29, 893), (30, 917), (33, 932), (37, 953), (39, 980), (43, 1046), (46, 1064), (48, 1079), (50, 1100), (51, 1109), (54, 1124), (55, 1145), (56, 1148), (64, 1229), (69, 1271),

Gene: ScoobySnack_43 Start: 28932, Stop: 29465, Start Num: 16

Candidate Starts for ScoobySnack_43:

(Start: 16 @28932 has 11 MA's), (19, 28956), (23, 29034), (27, 29058), (28, 29061), (31, 29097), (36, 29121), (40, 29160), (41, 29190), (42, 29199), (45, 29232), (59, 29346),

Gene: Violeta_48 Start: 29234, Stop: 29767, Start Num: 16

Candidate Starts for Violeta_48:

(6, 29090), (Start: 16 @29234 has 11 MA's), (19, 29258), (23, 29336), (27, 29360), (28, 29363), (31, 29399), (36, 29423), (40, 29462), (41, 29492), (42, 29501), (59, 29648),

Gene: Warren_46 Start: 29178, Stop: 29711, Start Num: 16

Candidate Starts for Warren_46:

(Start: 16 @29178 has 11 MA's), (19, 29202), (23, 29280), (27, 29304), (28, 29307), (32, 29346), (36, 29367), (40, 29406), (41, 29436), (42, 29445), (59, 29592),

Gene: Winchester007_62 Start: 35247, Stop: 35780, Start Num: 16

Candidate Starts for Winchester007_62:

(Start: 16 @35247 has 11 MA's), (19, 35271), (23, 35349), (27, 35373), (28, 35376), (31, 35412), (36, 35436), (40, 35475), (41, 35505), (42, 35514), (59, 35661),