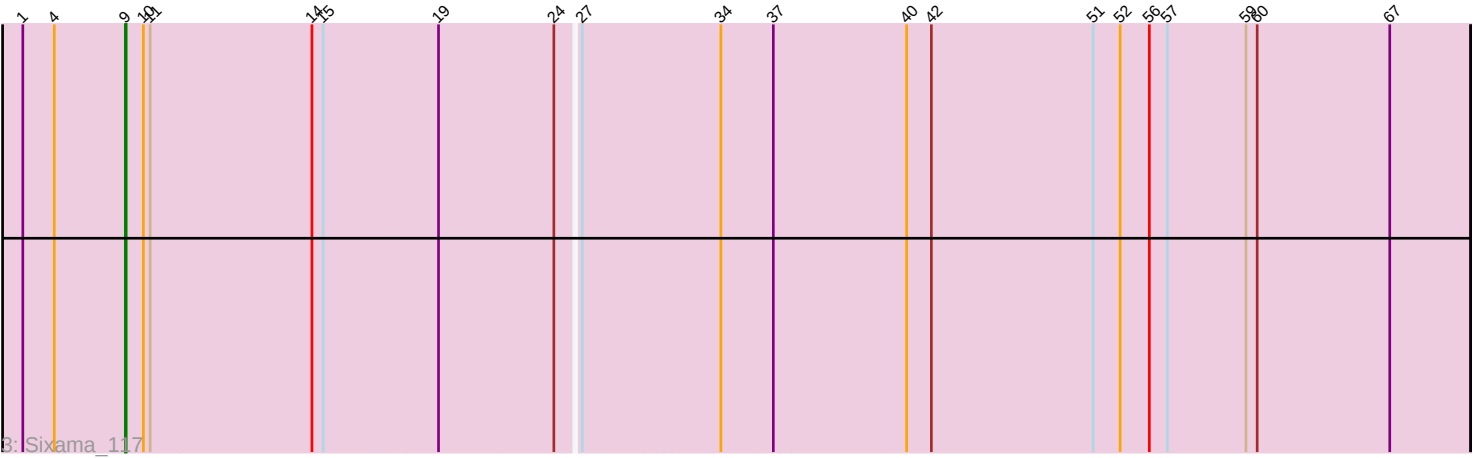
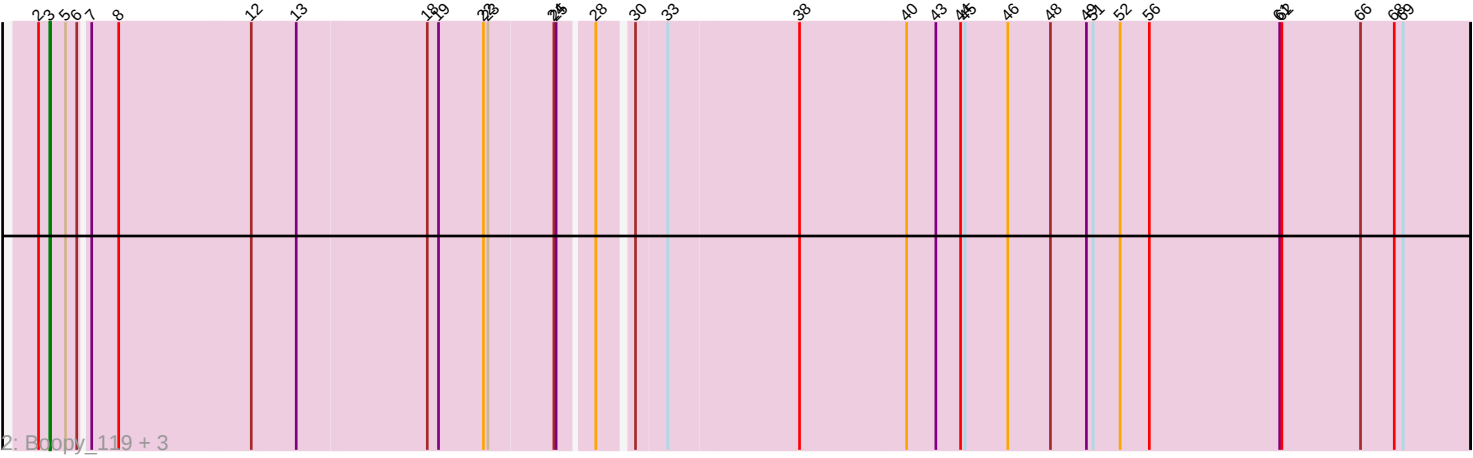
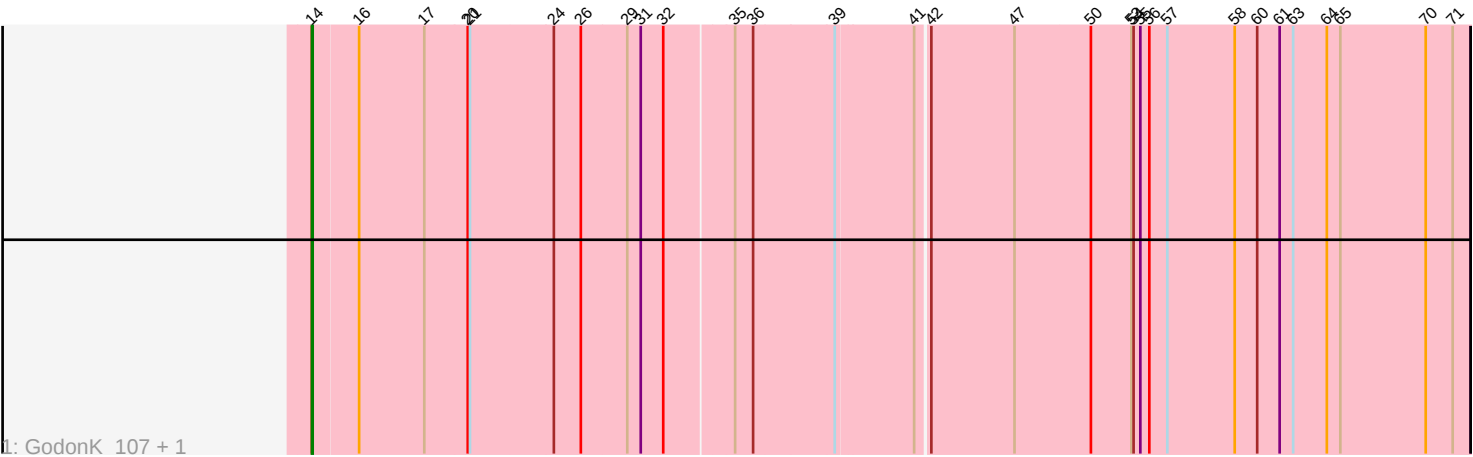


Pham 309990



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 309990 Report

This analysis was run 09/05/26 on database version 662.

Pham number 309990 has 7 members, 0 are drafts.

Phages represented in each track:

- Track 1 : GodonK_107, Phendrix_103
- Track 2 : Boopy_119, Mareelih_117, BlueNGold_118, Forza_119
- Track 3 : Sixama_117

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

The start number called the most often in the published annotations is 3, it was called in 4 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BlueNGold_118, Boopy_119, Forza_119, Mareelih_117,

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

-

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

- GodonK_107, Phendrix_103, Sixama_117,

Summary by start number:

Start 3:

- Found in 4 of 7 (57.1%) of genes in pham
- Manual Annotations of this start: 4 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BlueNGold_118 (DS), Boopy_119 (DS), Forza_119 (DS), Mareelih_117 (DS),

Start 9:

- Found in 1 of 7 (14.3%) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sixama_117 (DS),

Start 14:

- Found in 3 of 7 (42.9%) of genes in pham
- Manual Annotations of this start: 2 of 7
- Called 66.7% of time when present
- Phage (with cluster) where this start called: GodonK_107 (DK), Phendrix_103 (DK),

Summary by clusters:

There are 2 clusters represented in this pham: DS, DK,

Info for manual annotations of cluster DK:

- Start number 14 was manually annotated 2 times for cluster DK.

Info for manual annotations of cluster DS:

- Start number 3 was manually annotated 4 times for cluster DS.
- Start number 9 was manually annotated 1 time for cluster DS.

Gene Information:

Gene: BlueNGold_118 Start: 76170, Stop: 74362, Start Num: 3

Candidate Starts for BlueNGold_118:

(2, 76185), (Start: 3 @76170 has 4 MA's), (5, 76149), (6, 76134), (7, 76125), (8, 76089), (12, 75915), (13, 75858), (18, 75696), (19, 75681), (22, 75624), (23, 75618), (24, 75537), (25, 75534), (28, 75492), (30, 75453), (33, 75417), (38, 75249), (40, 75114), (43, 75075), (44, 75042), (45, 75036), (46, 74979), (48, 74922), (49, 74874), (51, 74865), (52, 74829), (56, 74790), (61, 74616), (62, 74613), (66, 74508), (68, 74463), (69, 74451),

Gene: Boopy_119 Start: 76182, Stop: 74374, Start Num: 3

Candidate Starts for Boopy_119:

(2, 76197), (Start: 3 @76182 has 4 MA's), (5, 76161), (6, 76146), (7, 76137), (8, 76101), (12, 75927), (13, 75870), (18, 75708), (19, 75693), (22, 75636), (23, 75630), (24, 75549), (25, 75546), (28, 75504), (30, 75465), (33, 75429), (38, 75261), (40, 75126), (43, 75087), (44, 75054), (45, 75048), (46, 74991), (48, 74934), (49, 74886), (51, 74877), (52, 74841), (56, 74802), (61, 74628), (62, 74625), (66, 74520), (68, 74475), (69, 74463),

Gene: Forza_119 Start: 76098, Stop: 74290, Start Num: 3

Candidate Starts for Forza_119:

(2, 76113), (Start: 3 @76098 has 4 MA's), (5, 76077), (6, 76062), (7, 76053), (8, 76017), (12, 75843), (13, 75786), (18, 75624), (19, 75609), (22, 75552), (23, 75546), (24, 75465), (25, 75462), (28, 75420), (30, 75381), (33, 75345), (38, 75177), (40, 75042), (43, 75003), (44, 74970), (45, 74964), (46, 74907), (48, 74850), (49, 74802), (51, 74793), (52, 74757), (56, 74718), (61, 74544), (62, 74541), (66, 74436), (68, 74391), (69, 74379),

Gene: GodonK_107 Start: 66987, Stop: 65485, Start Num: 14

Candidate Starts for GodonK_107:

(Start: 14 @66987 has 2 MA's), (16, 66930), (17, 66843), (20, 66786), (21, 66783), (24, 66675), (26, 66639), (29, 66579), (31, 66561), (32, 66531), (35, 66444), (36, 66420), (39, 66315), (41, 66216), (42, 66201), (47, 66090), (50, 65991), (53, 65937), (54, 65934), (55, 65925), (56, 65913), (57, 65889), (58, 65799), (60, 65769), (61, 65739), (63, 65721), (64, 65676), (65, 65658), (70, 65544), (71, 65508),

Gene: Mareelih_117 Start: 75600, Stop: 73792, Start Num: 3

Candidate Starts for Mareelih_117:

(2, 75615), (Start: 3 @75600 has 4 MA's), (5, 75579), (6, 75564), (7, 75555), (8, 75519), (12, 75345), (13, 75288), (18, 75126), (19, 75111), (22, 75054), (23, 75048), (24, 74967), (25, 74964), (28, 74922), (30, 74883), (33, 74847), (38, 74679), (40, 74544), (43, 74505), (44, 74472), (45, 74466), (46, 74409), (48, 74352), (49, 74304), (51, 74295), (52, 74259), (56, 74220), (61, 74046), (62, 74043), (66, 73938), (68, 73893), (69, 73881),

Gene: Phendrix_103 Start: 67236, Stop: 65734, Start Num: 14

Candidate Starts for Phendrix_103:

(Start: 14 @67236 has 2 MA's), (16, 67179), (17, 67092), (20, 67035), (21, 67032), (24, 66924), (26, 66888), (29, 66828), (31, 66810), (32, 66780), (35, 66693), (36, 66669), (39, 66564), (41, 66465), (42, 66450), (47, 66339), (50, 66240), (53, 66186), (54, 66183), (55, 66174), (56, 66162), (57, 66138), (58, 66048), (60, 66018), (61, 65988), (63, 65970), (64, 65925), (65, 65907), (70, 65793), (71, 65757),

Gene: Sixama_117 Start: 75583, Stop: 73823, Start Num: 9

Candidate Starts for Sixama_117:

(1, 75718), (4, 75676), (Start: 9 @75583 has 1 MA's), (10, 75559), (11, 75550), (Start: 14 @75337 has 2 MA's), (15, 75322), (19, 75178), (24, 75025), (27, 74998), (34, 74818), (37, 74749), (40, 74575), (42, 74542), (51, 74326), (52, 74290), (56, 74251), (57, 74227), (59, 74122), (60, 74107), (67, 73930),