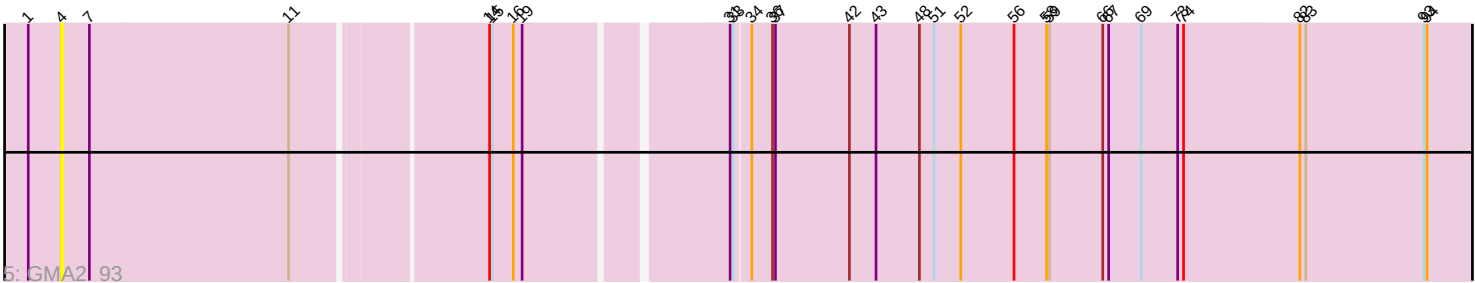
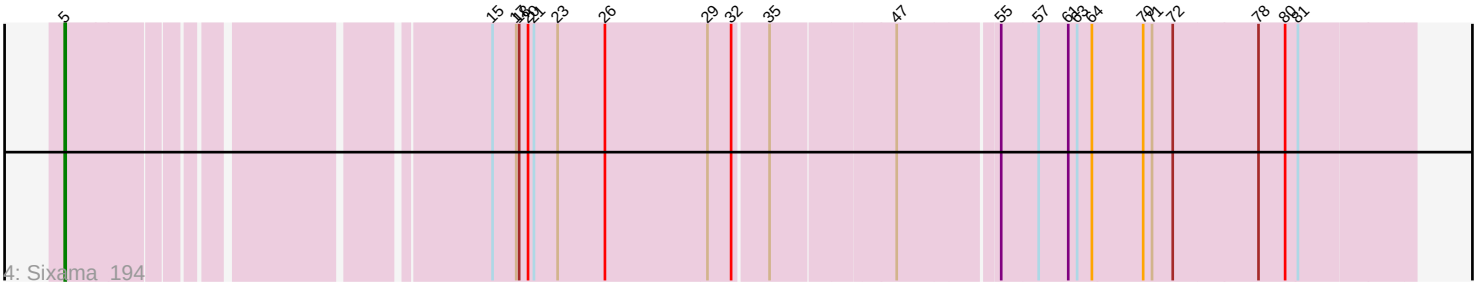
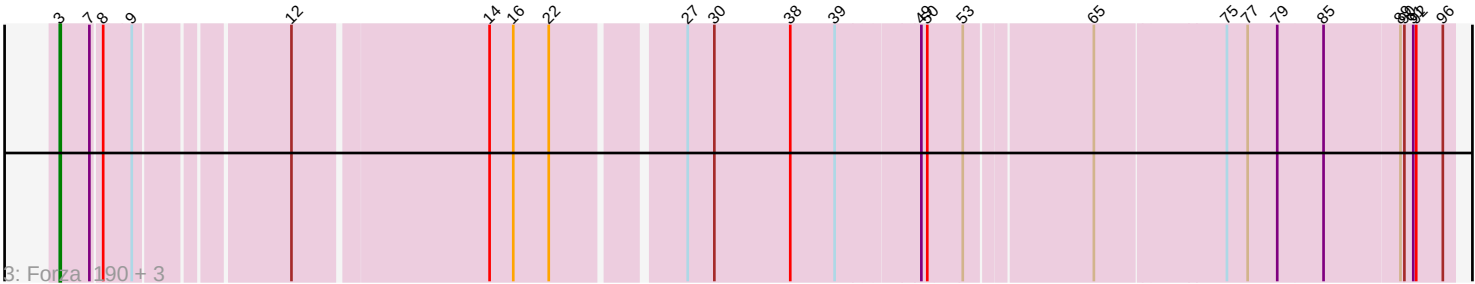
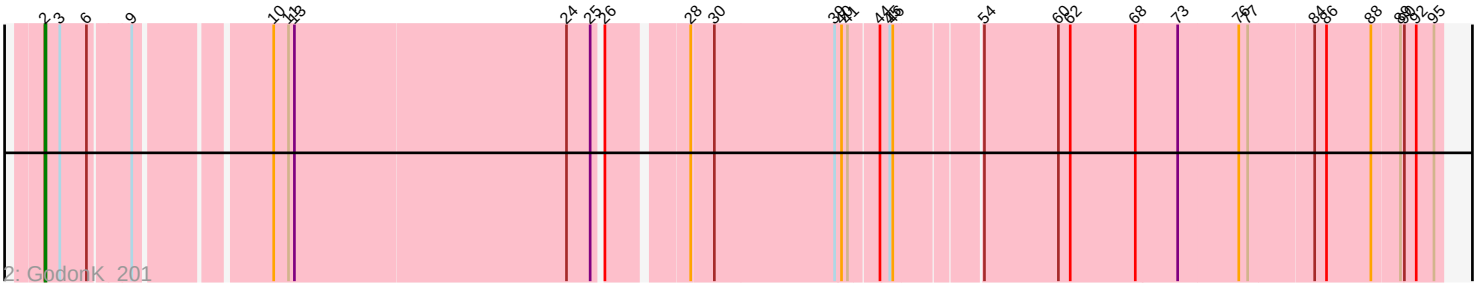
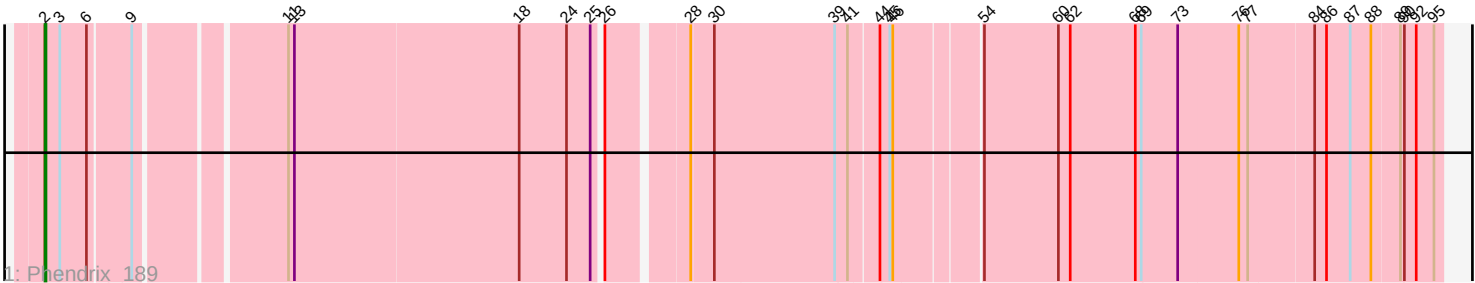


Pham 309956



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 309956 Report

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

Pham number 309956 has 8 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Phendrix_189
- Track 2 : GodonK_201
- Track 3 : Forza_190, Boopy_190, Mareelih_187, BlueNGold_186
- Track 4 : Sixama_194
- Track 5 : GMA2_93

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_186, Boopy_190, Forza_190, Mareelih_187,

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

- GodonK_201, Phendrix_189,

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

- GMA2_93, Sixama_194,

Summary by start number:

Start 2:

- Found in 2 of 8 (25.0%) of genes in pham
- Manual Annotations of this start: 2 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GodonK_201 (DK), Phendrix_189 (DK),

Start 3:

- Found in 6 of 8 (75.0%) of genes in pham
- Manual Annotations of this start: 4 of 7
- Called 66.7% of time when present
- Phage (with cluster) where this start called: BlueNGold_186 (DS), Boopy_190 (DS), Forza_190 (DS), Mareelih_187 (DS),

Start 4:

- Found in 1 of 8 (12.5%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GMA2_93 (DS),

Start 5:

- Found in 1 of 8 (12.5%) 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_194 (DS),

Summary by clusters:

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

Info for manual annotations of cluster DK:

- Start number 2 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 5 was manually annotated 1 time for cluster DS.

Gene Information:

Gene: BlueNGold_186 Start: 109266, Stop: 107959, Start Num: 3

Candidate Starts for BlueNGold_186:

(Start: 3 @109266 has 4 MA's), (7, 109236), (8, 109227), (9, 109200), (12, 109062), (14, 108873), (16, 108849), (22, 108813), (27, 108693), (30, 108666), (38, 108591), (39, 108546), (49, 108468), (50, 108462), (53, 108429), (65, 108309), (75, 108183), (77, 108162), (79, 108132), (85, 108087), (89, 108012), (90, 108009), (91, 108000), (92, 107997), (96, 107970),

Gene: Boopy_190 Start: 109277, Stop: 107970, Start Num: 3

Candidate Starts for Boopy_190:

(Start: 3 @109277 has 4 MA's), (7, 109247), (8, 109238), (9, 109211), (12, 109073), (14, 108884), (16, 108860), (22, 108824), (27, 108704), (30, 108677), (38, 108602), (39, 108557), (49, 108479), (50, 108473), (53, 108440), (65, 108320), (75, 108194), (77, 108173), (79, 108143), (85, 108098), (89, 108023), (90, 108020), (91, 108011), (92, 108008), (96, 107981),

Gene: Forza_190 Start: 109194, Stop: 107887, Start Num: 3

Candidate Starts for Forza_190:

(Start: 3 @109194 has 4 MA's), (7, 109164), (8, 109155), (9, 109128), (12, 108990), (14, 108801), (16, 108777), (22, 108741), (27, 108621), (30, 108594), (38, 108519), (39, 108474), (49, 108396), (50, 108390), (53, 108357), (65, 108237), (75, 108111), (77, 108090), (79, 108060), (85, 108015), (89, 107940), (90, 107937), (91, 107928), (92, 107925), (96, 107898),

Gene: GMA2_93 Start: 84947, Stop: 83562, Start Num: 4

Candidate Starts for GMA2_93:

(1, 84980), (4, 84947), (7, 84920), (11, 84719), (14, 84539), (15, 84536), (16, 84515), (19, 84506), (31, 84320), (33, 84317), (34, 84302), (36, 84281), (37, 84278), (42, 84203), (43, 84176), (48, 84134), (51,

84119), (52, 84092), (56, 84038), (58, 84005), (59, 84002), (66, 83948), (67, 83942), (69, 83909), (73, 83876), (74, 83870), (82, 83756), (83, 83750), (93, 83630), (94, 83627),

Gene: GodonK_201 Start: 103951, Stop: 102632, Start Num: 2

Candidate Starts for GodonK_201:

(Start: 2 @103951 has 2 MA's), (Start: 3 @103936 has 4 MA's), (6, 103909), (9, 103870), (10, 103750), (11, 103735), (13, 103729), (24, 103456), (25, 103432), (26, 103426), (28, 103354), (30, 103333), (39, 103213), (40, 103207), (41, 103201), (44, 103174), (45, 103165), (46, 103162), (54, 103084), (60, 103009), (62, 102997), (68, 102931), (73, 102889), (76, 102829), (77, 102820), (84, 102757), (86, 102745), (88, 102700), (89, 102673), (90, 102670), (92, 102658), (95, 102640),

Gene: Mareelih_187 Start: 108712, Stop: 107405, Start Num: 3

Candidate Starts for Mareelih_187:

(Start: 3 @108712 has 4 MA's), (7, 108682), (8, 108673), (9, 108646), (12, 108508), (14, 108319), (16, 108295), (22, 108259), (27, 108139), (30, 108112), (38, 108037), (39, 107992), (49, 107914), (50, 107908), (53, 107875), (65, 107755), (75, 107629), (77, 107608), (79, 107578), (85, 107533), (89, 107458), (90, 107455), (91, 107446), (92, 107443), (96, 107416),

Gene: Phendrix_189 Start: 102540, Stop: 101221, Start Num: 2

Candidate Starts for Phendrix_189:

(Start: 2 @102540 has 2 MA's), (Start: 3 @102525 has 4 MA's), (6, 102498), (9, 102459), (11, 102324), (13, 102318), (18, 102093), (24, 102045), (25, 102021), (26, 102015), (28, 101943), (30, 101922), (39, 101802), (41, 101790), (44, 101763), (45, 101754), (46, 101751), (54, 101673), (60, 101598), (62, 101586), (68, 101520), (69, 101514), (73, 101478), (76, 101418), (77, 101409), (84, 101346), (86, 101334), (87, 101310), (88, 101289), (89, 101262), (90, 101259), (92, 101247), (95, 101229),

Gene: Sixama_194 Start: 112566, Stop: 111301, Start Num: 5

Candidate Starts for Sixama_194:

(Start: 5 @112566 has 1 MA's), (15, 112191), (17, 112167), (18, 112164), (20, 112155), (21, 112149), (23, 112125), (26, 112077), (29, 111975), (32, 111951), (35, 111918), (47, 111801), (55, 111708), (57, 111672), (61, 111642), (63, 111633), (64, 111618), (70, 111567), (71, 111558), (72, 111537), (78, 111453), (80, 111426), (81, 111414),