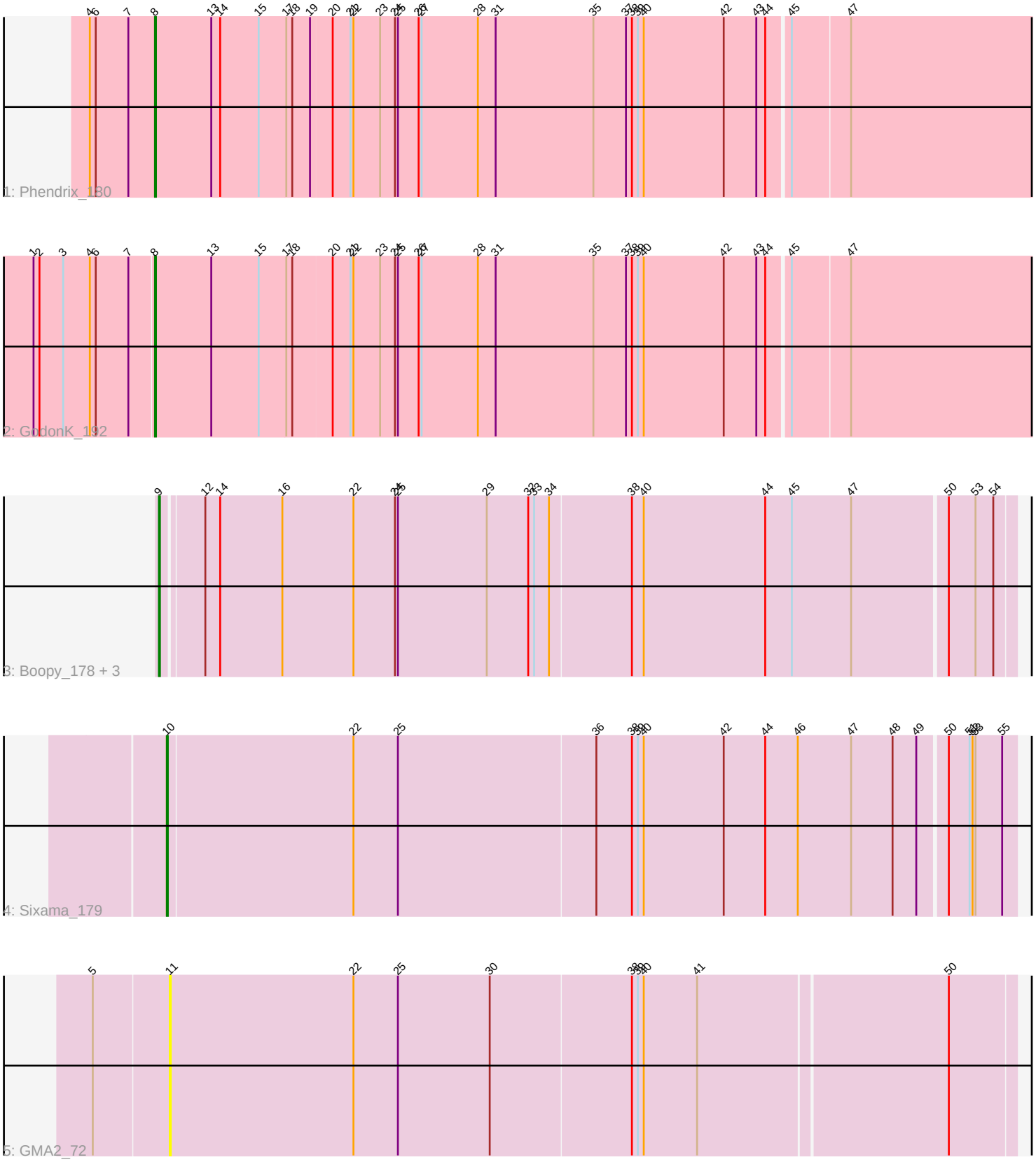
Pham 348302


1: Phendrix_180
2: GordonK_192
3: Boopy_178 + 3
4: Sixama_179
5: GMA2_72

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 348302 Report

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

Pham number 348302 has 8 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Phendrix_180
• Track 2 : GodonK_192
• Track 3 : Boopy_178, Forza_179, Mareelih_176, BlueNGold_175
• Track 4 : Sixama_179
• Track 5 : GMA2_72

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

The start number called the most often in the published annotations is 9, it was called in 4 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BlueNGold_175, Boopy_178, Forza_179, Mareelih_176,

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

Genes that do not have the "Most Annotated" start:
• GMA2_72, GodonK_192, Phendrix_180, Sixama_179,

Summary by start number:

Start 8:
• 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_192 (DK), Phendrix_180 (DK),

Start 9:
• Found in 4 of 8 (50.0%) 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_175 (DS), Boopy_178 (DS), Forza_179 (DS), Mareelih_176 (DS),

Start 10:
• 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_179 (DS),

Start 11:
• 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_72 (DS),

Summary by clusters:

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

Info for manual annotations of cluster DK:
•Start number 8 was manually annotated 2 times for cluster DK.

Info for manual annotations of cluster DS:
•Start number 9 was manually annotated 4 times for cluster DS.
•Start number 10 was manually annotated 1 time for cluster DS.

Gene Information:

Gene: BlueNGold_175 Start: 103285, Stop: 102437, Start Num: 9
Candidate Starts for BlueNGold_175:
(Start: 9 @103285 has 4 MA's), (12, 103246), (14, 103231), (16, 103168), (22, 103096), (24, 103054), (25, 103051), (29, 102961), (32, 102919), (33, 102913), (34, 102898), (38, 102817), (40, 102805), (44, 102682), (45, 102655), (47, 102595), (50, 102502), (53, 102475), (54, 102457),

Gene: Boopy_178 Start: 103296, Stop: 102448, Start Num: 9
Candidate Starts for Boopy_178:
(Start: 9 @103296 has 4 MA's), (12, 103257), (14, 103242), (16, 103179), (22, 103107), (24, 103065), (25, 103062), (29, 102972), (32, 102930), (33, 102924), (34, 102909), (38, 102828), (40, 102816), (44, 102693), (45, 102666), (47, 102606), (50, 102513), (53, 102486), (54, 102468),

Gene: Forza_179 Start: 103213, Stop: 102365, Start Num: 9
Candidate Starts for Forza_179:
(Start: 9 @103213 has 4 MA's), (12, 103174), (14, 103159), (16, 103096), (22, 103024), (24, 102982), (25, 102979), (29, 102889), (32, 102847), (33, 102841), (34, 102826), (38, 102745), (40, 102733), (44, 102610), (45, 102583), (47, 102523), (50, 102430), (53, 102403), (54, 102385),

Gene: GMA2_72 Start: 74554, Stop: 73712, Start Num: 11
Candidate Starts for GMA2_72:
(5, 74629), (11, 74554), (22, 74368), (25, 74323), (30, 74230), (38, 74089), (39, 74083), (40, 74077), (41, 74023), (50, 73777),

Gene: GodonK_192 Start: 99772, Stop: 98888, Start Num: 8
Candidate Starts for GodonK_192:

(1, 99892), (2, 99886), (3, 99862), (4, 99835), (6, 99829), (7, 99796), (Start: 8 @99772 has 2 MA's), (13, 99715), (15, 99667), (17, 99640), (18, 99634), (20, 99595), (21, 99577), (22, 99574), (23, 99547), (24, 99532), (25, 99529), (26, 99508), (27, 99505), (28, 99448), (31, 99430), (35, 99331), (37, 99298), (38, 99292), (39, 99286), (40, 99280), (42, 99199), (43, 99166), (44, 99157), (45, 99136), (47, 99079),

Gene: Mareelih_176 Start: 102731, Stop: 101883, Start Num: 9
Candidate Starts for Mareelih_176:
(Start: 9 @102731 has 4 MA's), (12, 102692), (14, 102677), (16, 102614), (22, 102542), (24, 102500), (25, 102497), (29, 102407), (32, 102365), (33, 102359), (34, 102344), (38, 102263), (40, 102251), (44, 102128), (45, 102101), (47, 102041), (50, 101948), (53, 101921), (54, 101903),

Gene: Phendrix_180 Start: 98202, Stop: 97318, Start Num: 8
Candidate Starts for Phendrix_180:
(4, 98268), (6, 98262), (7, 98229), (Start: 8 @98202 has 2 MA's), (13, 98145), (14, 98136), (15, 98097), (17, 98070), (18, 98064), (19, 98046), (20, 98025), (21, 98007), (22, 98004), (23, 97977), (24, 97962), (25, 97959), (26, 97938), (27, 97935), (28, 97878), (31, 97860), (35, 97761), (37, 97728), (38, 97722), (39, 97716), (40, 97710), (42, 97629), (43, 97596), (44, 97587), (45, 97566), (47, 97509),

Gene: Sixama_179 Start: 103604, Stop: 102756, Start Num: 10
Candidate Starts for Sixama_179:
(Start: 10 @103604 has 1 MA's), (22, 103418), (25, 103373), (36, 103175), (38, 103139), (39, 103133), (40, 103127), (42, 103046), (44, 103004), (46, 102971), (47, 102917), (48, 102875), (49, 102851), (50, 102824), (51, 102803), (52, 102800), (53, 102797), (55, 102770),