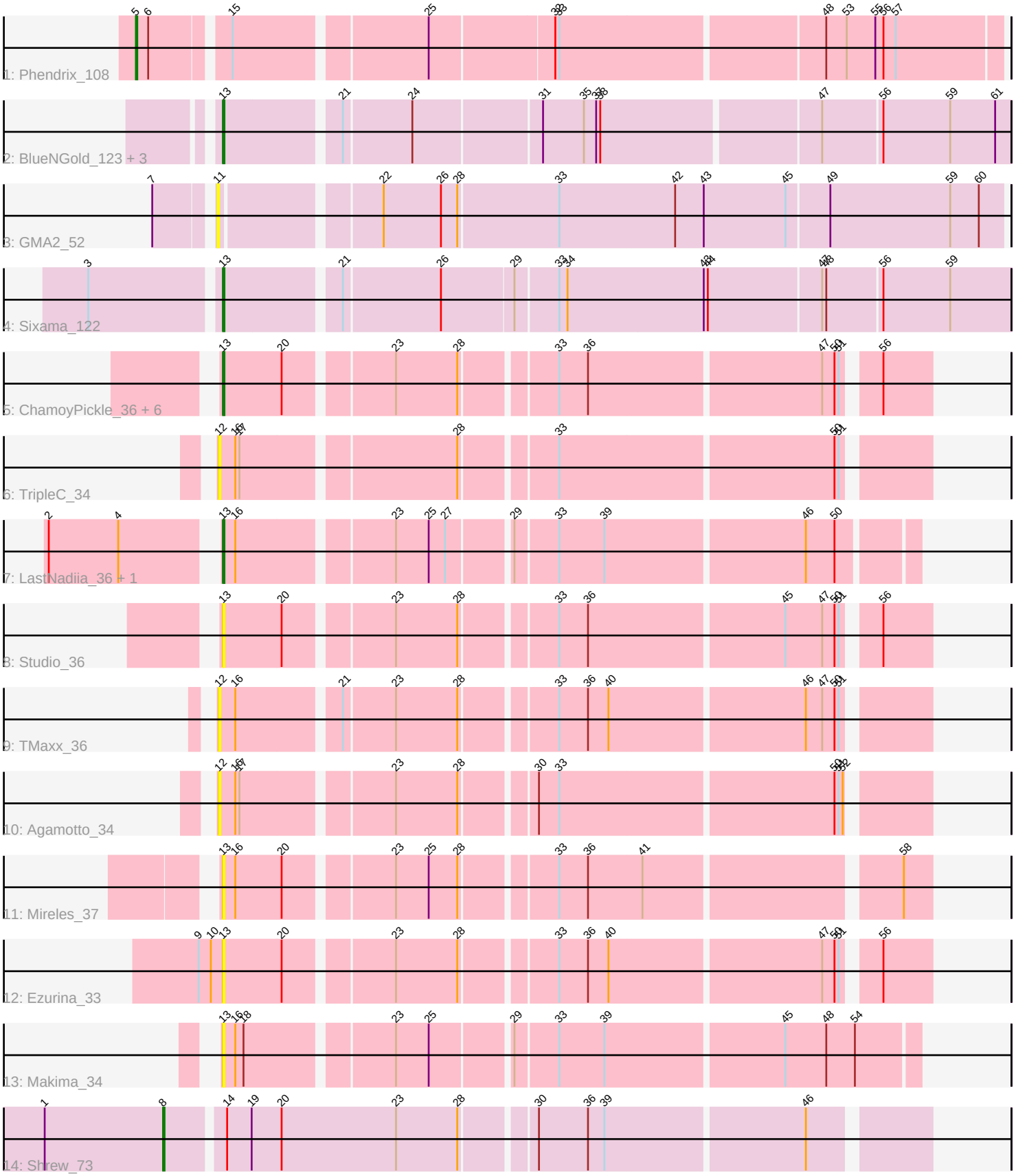
Pham 291498


1: Phendrix_108
2: BlueNGold_123 + 3
3: GMA2_52
4: Sixama_122
5: ChamoyPickle_36 + 6
6: TripleC_34
7: LastNadiia_36 + 1
8: Studio_36
9: TMaxx_36
10: Agamotto_34
11: Mireles_37
12: Ezurina_33
13: Makima_34
14: Shrew_73

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 291498 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291498 has 24 members, 15 are drafts.

Phages represented in each track:
• Track 1 : Phendrix_108
• Track 2 : BlueNGold_123, Mareelih_122, Boopy_124, Forza_124
• Track 3 : GMA2_52
• Track 4 : Sixama_122
• Track 5 : ChamoyPickle_36, Gerri43_35, Roberts_34, AnnabelLee_34, CardboardBox_35, Neuvillette_34, ChipsNGuac_35
• Track 6 : TripleC_34
• Track 7 : LastNadiia_36, Audell_33
• Track 8 : Studio_36
• Track 9 : TMaxx_36
• Track 10 : Agamotto_34
• Track 11 : Mireles_37
• Track 12 : Ezurina_33
• Track 13 : Makima_34
• Track 14 : Shrew_73

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

The start number called the most often in the published annotations is 13, it was called in 7 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AnnabelLee_34, Audell_33, BlueNGold_123, Boopy_124, CardboardBox_35, ChamoyPickle_36, ChipsNGuac_35, Ezurina_33, Forza_124, Gerri43_35, LastNadiia_36, Makima_34, Mareelih_122, Mireles_37, Neuvillette_34, Roberts_34, Sixama_122, Studio_36,

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

Genes that do not have the "Most Annotated" start:
• Agamotto_34, GMA2_52, Phendrix_108, Shrew_73, TMaxx_36, TripleC_34,

Summary by start number:

Start 5:
• Found in 1 of 24 (4.2%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Phendrix_108 (DK),

Start 8:
• Found in 1 of 24 (4.2%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Shrew_73 (singleton),

Start 11:
• Found in 1 of 24 (4.2%) 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_52 (DS),

Start 12:
• Found in 3 of 24 (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: Agamotto_34 (FR), TMaxx_36 (FR), TripleC_34 (FR),

Start 13:
• Found in 18 of 24 (75.0%) of genes in pham
• Manual Annotations of this start: 7 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AnnabelLee_34 (FR), Audell_33 (FR), BlueNGold_123 (DS), Boopy_124 (DS), CardboardBox_35 (FR), ChamoyPickle_36 (FR), ChipsNGuac_35 (FR), Ezurina_33 (FR), Forza_124 (DS), Gerri43_35 (FR), LastNadiia_36 (FR), Makima_34 (FR), Mareelih_122 (DS), Mireles_37 (FR), Neuvillette_34 (FR), Roberts_34 (FR), Sixama_122 (DS), Studio_36 (FR),

Summary by clusters:

There are 4 clusters represented in this pham: FR, singleton, DS, DK,

Info for manual annotations of cluster DK:
•Start number 5 was manually annotated 1 time for cluster DK.

Info for manual annotations of cluster DS:
•Start number 13 was manually annotated 5 times for cluster DS.

Info for manual annotations of cluster FR:
•Start number 13 was manually annotated 2 times for cluster FR.

Gene Information:

Gene: Agamotto_34 Start: 24994, Stop: 24515, Start Num: 12
Candidate Starts for Agamotto_34:
(12, 24994), (16, 24982), (17, 24979), (23, 24877), (28, 24832), (30, 24784), (33, 24769), (50, 24574), (51, 24571), (52, 24568),

Gene: AnnabelLee_34 Start: 22212, Stop: 21736, Start Num: 13
Candidate Starts for AnnabelLee_34:
(Start: 13 @22212 has 7 MA's), (20, 22170), (23, 22098), (28, 22053), (33, 21990), (36, 21969), (47, 21804), (50, 21795), (51, 21792), (56, 21771),

Gene: Audell_33 Start: 24613, Stop: 24143, Start Num: 13
Candidate Starts for Audell_33:
(2, 24724), (4, 24673), (Start: 13 @24613 has 7 MA's), (16, 24604), (23, 24499), (25, 24475), (27, 24463), (29, 24421), (33, 24391), (39, 24358), (46, 24217), (50, 24196),

Gene: BlueNGold_123 Start: 79020, Stop: 78475, Start Num: 13
Candidate Starts for BlueNGold_123:
(Start: 13 @79020 has 7 MA's), (21, 78942), (24, 78894), (31, 78804), (35, 78774), (37, 78765), (38, 78762), (47, 78609), (56, 78567), (59, 78519), (61, 78486),

Gene: Boopy_124 Start: 79032, Stop: 78487, Start Num: 13
Candidate Starts for Boopy_124:
(Start: 13 @79032 has 7 MA's), (21, 78954), (24, 78906), (31, 78816), (35, 78786), (37, 78777), (38, 78774), (47, 78621), (56, 78579), (59, 78531), (61, 78498),

Gene: CardboardBox_35 Start: 22215, Stop: 21739, Start Num: 13
Candidate Starts for CardboardBox_35:
(Start: 13 @22215 has 7 MA's), (20, 22173), (23, 22101), (28, 22056), (33, 21993), (36, 21972), (47, 21807), (50, 21798), (51, 21795), (56, 21774),

Gene: ChamoyPickle_36 Start: 22755, Stop: 22279, Start Num: 13
Candidate Starts for ChamoyPickle_36:
(Start: 13 @22755 has 7 MA's), (20, 22713), (23, 22641), (28, 22596), (33, 22533), (36, 22512), (47, 22347), (50, 22338), (51, 22335), (56, 22314),

Gene: ChipsNGuac_35 Start: 22215, Stop: 21739, Start Num: 13
Candidate Starts for ChipsNGuac_35:
(Start: 13 @22215 has 7 MA's), (20, 22173), (23, 22101), (28, 22056), (33, 21993), (36, 21972), (47, 21807), (50, 21798), (51, 21795), (56, 21774),

Gene: Ezurina_33 Start: 23256, Stop: 22780, Start Num: 13
Candidate Starts for Ezurina_33:
(9, 23274), (10, 23265), (Start: 13 @23256 has 7 MA's), (20, 23214), (23, 23142), (28, 23097), (33, 23034), (36, 23013), (40, 22998), (47, 22848), (50, 22839), (51, 22836), (56, 22815),

Gene: Forza_124 Start: 78948, Stop: 78403, Start Num: 13
Candidate Starts for Forza_124:
(Start: 13 @78948 has 7 MA's), (21, 78870), (24, 78822), (31, 78732), (35, 78702), (37, 78693), (38, 78690), (47, 78537), (56, 78495), (59, 78447), (61, 78414),

Gene: GMA2_52 Start: 53375, Stop: 52827, Start Num: 11
Candidate Starts for GMA2_52:

(7, 53411), (11, 53375), (22, 53270), (26, 53228), (28, 53216), (33, 53144), (42, 53060), (43, 53039), (45, 52979), (49, 52949), (59, 52865), (60, 52844),

Gene: Gerri43_35 Start: 22215, Stop: 21739, Start Num: 13
Candidate Starts for Gerri43_35:
(Start: 13 @22215 has 7 MA's), (20, 22173), (23, 22101), (28, 22056), (33, 21993), (36, 21972), (47, 21807), (50, 21798), (51, 21795), (56, 21774),

Gene: LastNadiia_36 Start: 24572, Stop: 24102, Start Num: 13
Candidate Starts for LastNadiia_36:
(2, 24683), (4, 24632), (Start: 13 @24572 has 7 MA's), (16, 24563), (23, 24458), (25, 24434), (27, 24422), (29, 24380), (33, 24350), (39, 24317), (46, 24176), (50, 24155),

Gene: Makima_34 Start: 23688, Stop: 23212, Start Num: 13
Candidate Starts for Makima_34:
(Start: 13 @23688 has 7 MA's), (16, 23679), (18, 23673), (23, 23574), (25, 23550), (29, 23496), (33, 23466), (39, 23433), (45, 23307), (48, 23277), (54, 23256),

Gene: Mareelih_122 Start: 78450, Stop: 77905, Start Num: 13
Candidate Starts for Mareelih_122:
(Start: 13 @78450 has 7 MA's), (21, 78372), (24, 78324), (31, 78234), (35, 78204), (37, 78195), (38, 78192), (47, 78039), (56, 77997), (59, 77949), (61, 77916),

Gene: Mireles_37 Start: 23247, Stop: 22771, Start Num: 13
Candidate Starts for Mireles_37:
(Start: 13 @23247 has 7 MA's), (16, 23238), (20, 23205), (23, 23133), (25, 23109), (28, 23088), (33, 23025), (36, 23004), (41, 22965), (58, 22791),

Gene: Neuvillette_34 Start: 22215, Stop: 21739, Start Num: 13
Candidate Starts for Neuvillette_34:
(Start: 13 @22215 has 7 MA's), (20, 22173), (23, 22101), (28, 22056), (33, 21993), (36, 21972), (47, 21807), (50, 21798), (51, 21795), (56, 21774),

Gene: Phendrix_108 Start: 70145, Stop: 69552, Start Num: 5
Candidate Starts for Phendrix_108:
(Start: 5 @70145 has 1 MA's), (6, 70136), (15, 70085), (25, 69953), (32, 69866), (33, 69863), (48, 69677), (53, 69662), (55, 69641), (56, 69635), (57, 69626),

Gene: Roberts_34 Start: 22215, Stop: 21739, Start Num: 13
Candidate Starts for Roberts_34:
(Start: 13 @22215 has 7 MA's), (20, 22173), (23, 22101), (28, 22056), (33, 21993), (36, 21972), (47, 21807), (50, 21798), (51, 21795), (56, 21774),

Gene: Shrew_73 Start: 43134, Stop: 43658, Start Num: 8
Candidate Starts for Shrew_73:
(1, 43047), (Start: 8 @43134 has 1 MA's), (14, 43173), (19, 43191), (20, 43212), (23, 43296), (28, 43341), (30, 43389), (36, 43425), (39, 43437), (46, 43578),

Gene: Sixama_122 Start: 78458, Stop: 77907, Start Num: 13
Candidate Starts for Sixama_122:
(3, 78548), (Start: 13 @78458 has 7 MA's), (21, 78380), (26, 78311), (29, 78260), (33, 78230), (34, 78224), (43, 78125), (44, 78122), (47, 78041), (48, 78038), (56, 77999), (59, 77951),

Gene: Studio_36 Start: 23580, Stop: 23104, Start Num: 13
Candidate Starts for Studio_36:
(Start: 13 @23580 has 7 MA's), (20, 23538), (23, 23466), (28, 23421), (33, 23358), (36, 23337), (45, 23199), (47, 23172), (50, 23163), (51, 23160), (56, 23139),

Gene: TMaxx_36 Start: 22869, Stop: 22390, Start Num: 12
Candidate Starts for TMaxx_36:
(12, 22869), (16, 22857), (21, 22788), (23, 22752), (28, 22707), (33, 22644), (36, 22623), (40, 22608), (46, 22470), (47, 22458), (50, 22449), (51, 22446),

Gene: TripleC_34 Start: 25213, Stop: 24734, Start Num: 12
Candidate Starts for TripleC_34:
(12, 25213), (16, 25201), (17, 25198), (28, 25051), (33, 24988), (50, 24793), (51, 24790),