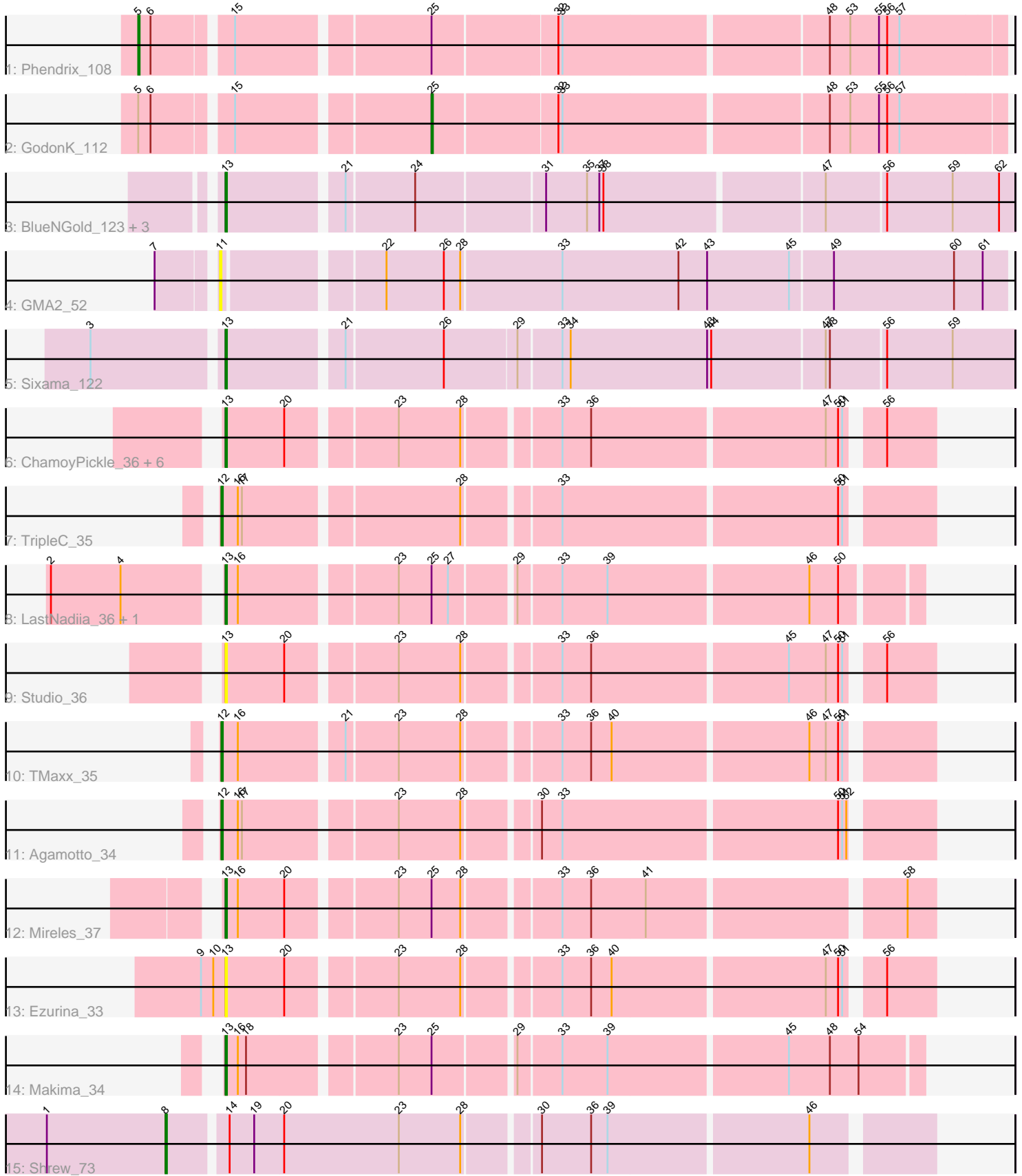


# Pham 311948



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 311948 Report

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

Pham number 311948 has 25 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Phendrix\_108
- Track 2 : GodonK\_112
- Track 3 : BlueNGold\_123, Mareelih\_122, Boopy\_124, Forza\_124
- Track 4 : GMA2\_52
- Track 5 : Sixama\_122
- Track 6 : ChamoyPickle\_36, Gerri43\_34, Roberts\_34, AnnabelLee\_34, CardboardBox\_35, Neuville\_34, ChipsNGuac\_34
- Track 7 : TripleC\_35
- Track 8 : LastNadiia\_36, Audell\_33
- Track 9 : Studio\_36
- Track 10 : TMaxx\_35
- Track 11 : Agamoto\_34
- Track 12 : Mireles\_37
- Track 13 : Ezurina\_33
- Track 14 : Makima\_34
- Track 15 : 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 13 of the 19 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\_34, Ezurina\_33, Forza\_124, Gerri43\_34, LastNadiia\_36, Makima\_34, Mareelih\_122, Mireles\_37, Neuville\_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:

- Agamoto\_34, GMA2\_52, GodonK\_112, Phendrix\_108, Shrew\_73, TMaxx\_35, TripleC\_35,

## Summary by start number:

### Start 5:

- Found in 2 of 25 ( 8.0% ) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Phendrix\_108 (DK),

### Start 8:

- Found in 1 of 25 ( 4.0% ) 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: Shrew\_73 (singleton),

### Start 11:

- Found in 1 of 25 ( 4.0% ) 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 25 ( 12.0% ) 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: Agamoto\_34 (FR), TMaxx\_35 (FR), TripleC\_35 (FR),

### Start 13:

- Found in 18 of 25 ( 72.0% ) of genes in pham
- Manual Annotations of this start: 13 of 19
- 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\_34 (FR), Ezurina\_33 (FR), Forza\_124 (DS), Gerri43\_34 (FR), LastNadiia\_36 (FR), Makima\_34 (FR), Mareelih\_122 (DS), Mireles\_37 (FR), Neuville\_34 (FR), Roberts\_34 (FR), Sixama\_122 (DS), Studio\_36 (FR),

### Start 25:

- Found in 6 of 25 ( 24.0% ) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 16.7% of time when present
- Phage (with cluster) where this start called: GodonK\_112 (DK),

## 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.
- Start number 25 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 12 was manually annotated 3 times for cluster FR.
- Start number 13 was manually annotated 8 times for cluster FR.

### **Gene Information:**

Gene: Agamoto\_34 Start: 24994, Stop: 24515, Start Num: 12

Candidate Starts for Agamoto\_34:

(Start: 12 @24994 has 3 MA's), (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 13 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 13 MA's), (16, 24604), (23, 24499), (Start: 25 @24475 has 1 MA's), (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 13 MA's), (21, 78942), (24, 78894), (31, 78804), (35, 78774), (37, 78765), (38, 78762), (47, 78609), (56, 78567), (59, 78519), (62, 78486),

Gene: Boopy\_124 Start: 79032, Stop: 78487, Start Num: 13

Candidate Starts for Boopy\_124:

(Start: 13 @79032 has 13 MA's), (21, 78954), (24, 78906), (31, 78816), (35, 78786), (37, 78777), (38, 78774), (47, 78621), (56, 78579), (59, 78531), (62, 78498),

Gene: CardboardBox\_35 Start: 22215, Stop: 21739, Start Num: 13

Candidate Starts for CardboardBox\_35:

(Start: 13 @22215 has 13 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 13 MA's), (20, 22713), (23, 22641), (28, 22596), (33, 22533), (36, 22512), (47, 22347), (50, 22338), (51, 22335), (56, 22314),

Gene: ChipsNGuac\_34 Start: 22215, Stop: 21739, Start Num: 13

Candidate Starts for ChipsNGuac\_34:

(Start: 13 @22215 has 13 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 13 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 13 MA's), (21, 78870), (24, 78822), (31, 78732), (35, 78702), (37, 78693), (38, 78690), (47, 78537), (56, 78495), (59, 78447), (62, 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), (60, 52865), (61, 52844),

Gene: Gerri43\_34 Start: 22215, Stop: 21739, Start Num: 13

Candidate Starts for Gerri43\_34:

(Start: 13 @22215 has 13 MA's), (20, 22173), (23, 22101), (28, 22056), (33, 21993), (36, 21972), (47, 21807), (50, 21798), (51, 21795), (56, 21774),

Gene: GodonK\_112 Start: 69704, Stop: 69303, Start Num: 25

Candidate Starts for GodonK\_112:

(Start: 5 @69896 has 1 MA's), (6, 69887), (15, 69836), (Start: 25 @69704 has 1 MA's), (32, 69617), (33, 69614), (48, 69428), (53, 69413), (55, 69392), (56, 69386), (57, 69377),

Gene: LastNadiia\_36 Start: 24572, Stop: 24102, Start Num: 13

Candidate Starts for LastNadiia\_36:

(2, 24683), (4, 24632), (Start: 13 @24572 has 13 MA's), (16, 24563), (23, 24458), (Start: 25 @24434 has 1 MA's), (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 13 MA's), (16, 23679), (18, 23673), (23, 23574), (Start: 25 @23550 has 1 MA's), (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 13 MA's), (21, 78372), (24, 78324), (31, 78234), (35, 78204), (37, 78195), (38, 78192), (47, 78039), (56, 77997), (59, 77949), (62, 77916),

Gene: Mireles\_37 Start: 23247, Stop: 22771, Start Num: 13

Candidate Starts for Mireles\_37:

(Start: 13 @23247 has 13 MA's), (16, 23238), (20, 23205), (23, 23133), (Start: 25 @23109 has 1 MA's), (28, 23088), (33, 23025), (36, 23004), (41, 22965), (58, 22791),

Gene: Neuville\_34 Start: 22215, Stop: 21739, Start Num: 13

Candidate Starts for Neuville\_34:

(Start: 13 @22215 has 13 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), (Start: 25 @69953 has 1 MA's), (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 13 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 13 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 13 MA's), (20, 23538), (23, 23466), (28, 23421), (33, 23358), (36, 23337), (45, 23199), (47, 23172), (50, 23163), (51, 23160), (56, 23139),

Gene: TMaxx\_35 Start: 22869, Stop: 22390, Start Num: 12

Candidate Starts for TMaxx\_35:

(Start: 12 @22869 has 3 MA's), (16, 22857), (21, 22788), (23, 22752), (28, 22707), (33, 22644), (36, 22623), (40, 22608), (46, 22470), (47, 22458), (50, 22449), (51, 22446),

Gene: TripleC\_35 Start: 25213, Stop: 24734, Start Num: 12

Candidate Starts for TripleC\_35:

(Start: 12 @25213 has 3 MA's), (16, 25201), (17, 25198), (28, 25051), (33, 24988), (50, 24793), (51, 24790),