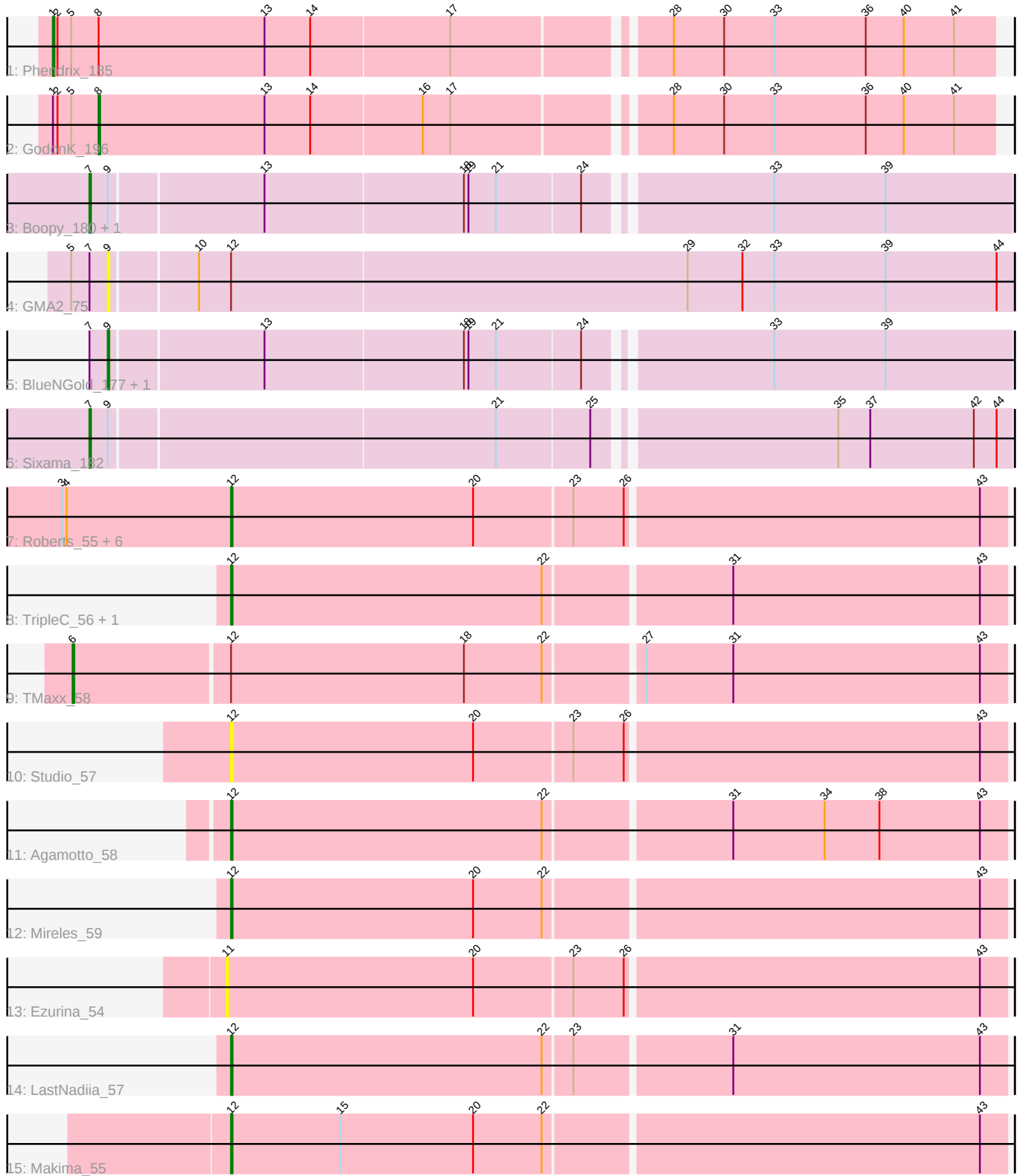


Pham 331198



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 331198 Report

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

Pham number 331198 has 24 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Phendrix_185
- Track 2 : GodonK_196
- Track 3 : Boopy_180, Mareelih_178
- Track 4 : GMA2_75
- Track 5 : BlueNGGold_177, Forza_181
- Track 6 : Sixama_182
- Track 7 : Roberts_55, Gerri43_54, ChamoyPickle_56, Neuville_54, ChipsNGuac_55, AnnabelLee_56, CardboardBox_55
- Track 8 : TripleC_56, Audell_56
- Track 9 : TMaxx_58
- Track 10 : Studio_57
- Track 11 : Agamotto_58
- Track 12 : Mireles_59
- Track 13 : Ezurina_54
- Track 14 : LastNadiia_57
- Track 15 : Makima_55

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

The start number called the most often in the published annotations is 12, it was called in 10 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Agamotto_58, AnnabelLee_56, Audell_56, CardboardBox_55, ChamoyPickle_56, ChipsNGuac_55, Gerri43_54, LastNadiia_57, Makima_55, Mireles_59, Neuville_54, Roberts_55, Studio_57, TripleC_56,

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

- GMA2_75, TMaxx_58,

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

- BlueNGGold_177, Boopy_180, Ezurina_54, Forza_181, GodonK_196, Mareelih_178, Phendrix_185, Sixama_182,

Summary by start number:

Start 1:

- Found in 2 of 24 (8.3%) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Phendrix_185 (DK),

Start 6:

- Found in 1 of 24 (4.2%) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: TMaxx_58 (FR),

Start 7:

- Found in 6 of 24 (25.0%) of genes in pham
- Manual Annotations of this start: 3 of 18
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Boopy_180 (DS), Mareelih_178 (DS), Sixama_182 (DS),

Start 8:

- Found in 2 of 24 (8.3%) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 50.0% of time when present
- Phage (with cluster) where this start called: GodonK_196 (DK),

Start 9:

- Found in 6 of 24 (25.0%) of genes in pham
- Manual Annotations of this start: 2 of 18
- Called 50.0% of time when present
- Phage (with cluster) where this start called: BlueNGold_177 (DS), Forza_181 (DS), GMA2_75 (DS),

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: Ezurina_54 (FR),

Start 12:

- Found in 16 of 24 (66.7%) of genes in pham
- Manual Annotations of this start: 10 of 18
- Called 87.5% of time when present
- Phage (with cluster) where this start called: Agamotto_58 (FR), AnnabelLee_56 (FR), Audell_56 (FR), CardboardBox_55 (FR), ChamoyPickle_56 (FR), ChipsNGuac_55 (FR), Gerri43_54 (FR), LastNadiia_57 (FR), Makima_55 (FR), Mireles_59 (FR), Neuville_54 (FR), Roberts_55 (FR), Studio_57 (FR), TripleC_56 (FR),

Summary by clusters:

There are 3 clusters represented in this pham: FR, DS, DK,

Info for manual annotations of cluster DK:

- Start number 1 was manually annotated 1 time for cluster DK.
- Start number 8 was manually annotated 1 time for cluster DK.

Info for manual annotations of cluster DS:

- Start number 7 was manually annotated 3 times for cluster DS.
- Start number 9 was manually annotated 2 times for cluster DS.

Info for manual annotations of cluster FR:

- Start number 6 was manually annotated 1 time for cluster FR.
- Start number 12 was manually annotated 10 times for cluster FR.

Gene Information:

Gene: Agamotto_58 Start: 37501, Stop: 37001, Start Num: 12

Candidate Starts for Agamotto_58:

(Start: 12 @37501 has 10 MA's), (22, 37297), (31, 37180), (34, 37120), (38, 37084), (43, 37018),

Gene: AnnabelLee_56 Start: 34178, Stop: 33678, Start Num: 12

Candidate Starts for AnnabelLee_56:

(3, 34289), (4, 34286), (Start: 12 @34178 has 10 MA's), (20, 34019), (23, 33956), (26, 33923), (43, 33695),

Gene: Audell_56 Start: 37194, Stop: 36694, Start Num: 12

Candidate Starts for Audell_56:

(Start: 12 @37194 has 10 MA's), (22, 36990), (31, 36873), (43, 36711),

Gene: BlueNGold_177 Start: 104697, Stop: 104134, Start Num: 9

Candidate Starts for BlueNGold_177:

(Start: 7 @104709 has 3 MA's), (Start: 9 @104697 has 2 MA's), (13, 104601), (18, 104472), (19, 104469), (21, 104451), (24, 104397), (33, 104286), (39, 104214),

Gene: Boopy_180 Start: 104720, Stop: 104145, Start Num: 7

Candidate Starts for Boopy_180:

(Start: 7 @104720 has 3 MA's), (Start: 9 @104708 has 2 MA's), (13, 104612), (18, 104483), (19, 104480), (21, 104462), (24, 104408), (33, 104297), (39, 104225),

Gene: CardboardBox_55 Start: 34181, Stop: 33681, Start Num: 12

Candidate Starts for CardboardBox_55:

(3, 34292), (4, 34289), (Start: 12 @34181 has 10 MA's), (20, 34022), (23, 33959), (26, 33926), (43, 33698),

Gene: ChamoyPickle_56 Start: 34721, Stop: 34221, Start Num: 12

Candidate Starts for ChamoyPickle_56:

(3, 34832), (4, 34829), (Start: 12 @34721 has 10 MA's), (20, 34562), (23, 34499), (26, 34466), (43, 34238),

Gene: ChipsNGuac_55 Start: 34181, Stop: 33681, Start Num: 12

Candidate Starts for ChipsNGuac_55:

(3, 34292), (4, 34289), (Start: 12 @34181 has 10 MA's), (20, 34022), (23, 33959), (26, 33926), (43, 33698),

Gene: Ezurina_54 Start: 35183, Stop: 34680, Start Num: 11

Candidate Starts for Ezurina_54:

(11, 35183), (20, 35021), (23, 34958), (26, 34925), (43, 34697),

Gene: Forza_181 Start: 104625, Stop: 104062, Start Num: 9

Candidate Starts for Forza_181:

(Start: 7 @104637 has 3 MA's), (Start: 9 @104625 has 2 MA's), (13, 104529), (18, 104400), (19, 104397), (21, 104379), (24, 104325), (33, 104214), (39, 104142),

Gene: GMA2_75 Start: 76604, Stop: 76020, Start Num: 9

Candidate Starts for GMA2_75:

(5, 76628), (Start: 7 @76616 has 3 MA's), (Start: 9 @76604 has 2 MA's), (10, 76550), (Start: 12 @76529 has 10 MA's), (29, 76232), (32, 76196), (33, 76175), (39, 76103), (44, 76031),

Gene: Gerri43_54 Start: 34181, Stop: 33681, Start Num: 12

Candidate Starts for Gerri43_54:

(3, 34292), (4, 34289), (Start: 12 @34181 has 10 MA's), (20, 34022), (23, 33959), (26, 33926), (43, 33698),

Gene: GodonK_196 Start: 101457, Stop: 100891, Start Num: 8

Candidate Starts for GodonK_196:

(Start: 1 @101487 has 1 MA's), (2, 101484), (5, 101475), (Start: 8 @101457 has 1 MA's), (13, 101349), (14, 101319), (16, 101247), (17, 101229), (28, 101100), (30, 101067), (33, 101034), (36, 100974), (40, 100950), (41, 100917),

Gene: LastNadiia_57 Start: 36832, Stop: 36332, Start Num: 12

Candidate Starts for LastNadiia_57:

(Start: 12 @36832 has 10 MA's), (22, 36628), (23, 36610), (31, 36511), (43, 36349),

Gene: Makima_55 Start: 36262, Stop: 35762, Start Num: 12

Candidate Starts for Makima_55:

(Start: 12 @36262 has 10 MA's), (15, 36190), (20, 36103), (22, 36058), (43, 35779),

Gene: Mareelih_178 Start: 104155, Stop: 103580, Start Num: 7

Candidate Starts for Mareelih_178:

(Start: 7 @104155 has 3 MA's), (Start: 9 @104143 has 2 MA's), (13, 104047), (18, 103918), (19, 103915), (21, 103897), (24, 103843), (33, 103732), (39, 103660),

Gene: Mireles_59 Start: 35910, Stop: 35410, Start Num: 12

Candidate Starts for Mireles_59:

(Start: 12 @35910 has 10 MA's), (20, 35751), (22, 35706), (43, 35427),

Gene: Neuville_54 Start: 34181, Stop: 33681, Start Num: 12

Candidate Starts for Neuville_54:

(3, 34292), (4, 34289), (Start: 12 @34181 has 10 MA's), (20, 34022), (23, 33959), (26, 33926), (43, 33698),

Gene: Phendrix_185 Start: 100076, Stop: 99480, Start Num: 1

Candidate Starts for Phendrix_185:

(Start: 1 @100076 has 1 MA's), (2, 100073), (5, 100064), (Start: 8 @100046 has 1 MA's), (13, 99938), (14, 99908), (17, 99818), (28, 99689), (30, 99656), (33, 99623), (36, 99563), (40, 99539), (41, 99506),

Gene: Roberts_55 Start: 34181, Stop: 33681, Start Num: 12

Candidate Starts for Roberts_55:

(3, 34292), (4, 34289), (Start: 12 @34181 has 10 MA's), (20, 34022), (23, 33959), (26, 33926), (43, 33698),

Gene: Sixama_182 Start: 105456, Stop: 104881, Start Num: 7

Candidate Starts for Sixama_182:

(Start: 7 @105456 has 3 MA's), (Start: 9 @105444 has 2 MA's), (21, 105198), (25, 105138), (35, 104991), (37, 104970), (42, 104904), (44, 104889),

Gene: Studio_57 Start: 35396, Stop: 34896, Start Num: 12

Candidate Starts for Studio_57:

(Start: 12 @35396 has 10 MA's), (20, 35237), (23, 35174), (26, 35141), (43, 34913),

Gene: TMaxx_58 Start: 35765, Stop: 35166, Start Num: 6

Candidate Starts for TMaxx_58:

(Start: 6 @35765 has 1 MA's), (Start: 12 @35666 has 10 MA's), (18, 35513), (22, 35462), (27, 35402), (31, 35345), (43, 35183),

Gene: TripleC_56 Start: 37667, Stop: 37167, Start Num: 12

Candidate Starts for TripleC_56:

(Start: 12 @37667 has 10 MA's), (22, 37463), (31, 37346), (43, 37184),