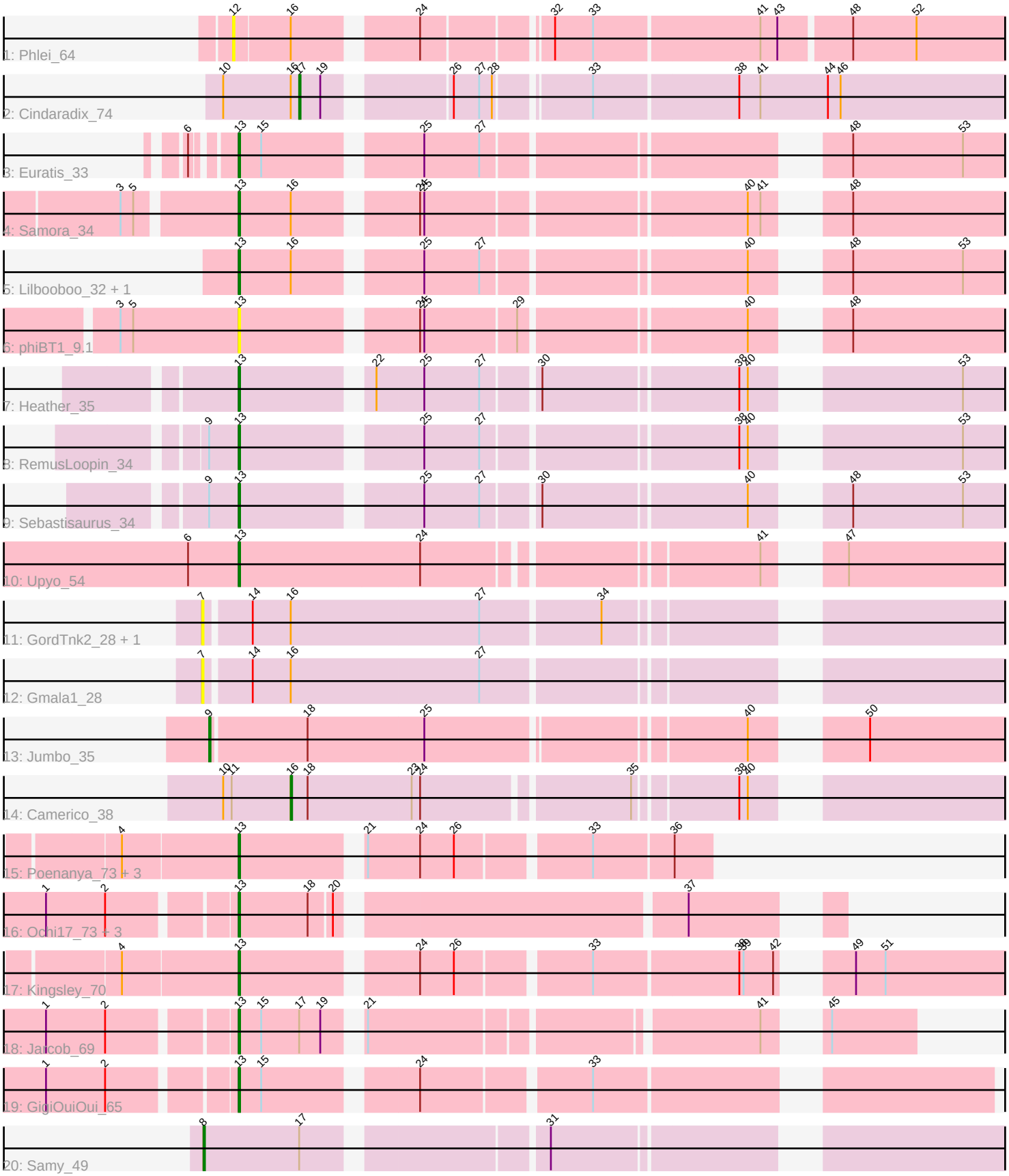
Pham 347923


1: Phlei_64
2: Cindaradix_74
3: Euratis_33
4: Samora_34
5: Lilbooboo_32 + 1
6: phiBT1_9.1
7: Heather_35
8: RemusLoopin_34
9: Sebastisaurus_34
10: Upyo_54
11: GordTnk2_28 + 1
12: Gmala1_28
13: Jumbo_35
14: Camerico_38
15: Poenanya_73 + 3
16: Ochi17_73 + 3
17: Kingsley_70
18: Jacob_69
19: GigiOuiOui_65
20: Samy_49

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 347923 Report

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

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 347923 has 28 members, 5 are drafts.

Phages represented in each track:
- Track 1 : Phlei_64
- Track 2 : Cindaradix_74
- Track 3 : Euratis_33
- Track 4 : Samora_34
- Track 5 : Lilbooboo_32, Vash_32
- Track 6 : phiBT1_9.1
- Track 7 : Heather_35
- Track 8 : RemusLoopin_34
- Track 9 : Sebastisaurus_34
- Track 10 : Upyo_54
- Track 11 : GordTnk2_28, GordDuk1_28
- Track 12 : Gmala1_28
- Track 13 : Jumbo_35
- Track 14 : Camerico_38
- Track 15 : Poenanya_73, Leperchaun_68, Doomphist_73, Polka14_74
- Track 16 : Ochi17_73, Seabastian_75, OfUltron_75, Llama_74
- Track 17 : Kingsley_70
- Track 18 : Jarcob_69
- Track 19 : GigiOuiOui_65
- Track 20 : Samy_49

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 19 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- Doomphist_73, Euratis_33, GigiOuiOui_65, Heather_35, Jarcob_69, Kingsley_70, Leperchaun_68, Lilbooboo_32, Llama_74, Ochi17_73, OfUltron_75, Poenanya_73, Polka14_74, RemusLoopin_34, Samora_34, Seabastian_75, Sebastisaurus_34,

Upyo_54, Vash_32, phiBT1_9.1,

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

Genes that do not have the "Most Annotated" start:
• Camerico_38, Cindaradix_74, Gmala1_28, GordDuk1_28, GordTnk2_28, Jumbo_35, Phlei_64, Samy_49,

Summary by start number:

Start 7:
• Found in 3 of 28 (10.7%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gmala1_28 (DF1), GordDuk1_28 (DF1), GordTnk2_28 (DF1),

Start 8:
• Found in 1 of 28 (3.6%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Samy_49 (singleton),

Start 9:
• Found in 3 of 28 (10.7%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Jumbo_35 (DF3),

Start 12:
• Found in 1 of 28 (3.6%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Phlei_64 (A13),

Start 13:
• Found in 20 of 28 (71.4%) of genes in pham
• Manual Annotations of this start: 19 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Doomphist_73 (F1), Euratis_33 (BB1), GigiOuiOui_65 (F1), Heather_35 (BB2), Jarcob_69 (F1), Kingsley_70 (F1), Leperchaun_68 (F1), Lilbooboo_32 (BB1), Llama_74 (F1), Ochi17_73 (F1), OfUltron_75 (F1), Poenanya_73 (F1), Polka14_74 (F1), RemusLoopin_34 (BB2), Samora_34 (BB1), Seabastian_75 (F1), Sebastisaurus_34 (BB2), Upyo_54 (CD), Vash_32 (BB1), phiBT1_9.1 (BB1),

Start 16:
• Found in 9 of 28 (32.1%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 11.1% of time when present
• Phage (with cluster) where this start called: Camerico_38 (DF4),

Start 17:
• Found in 3 of 28 (10.7%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Cindaradix_74 (A4),

Summary by clusters:

There are 10 clusters represented in this pham: F1, singleton, A13, DF4, DF1, DF3, CD, A4, BB2, BB1,

Info for manual annotations of cluster A4:
•Start number 17 was manually annotated 1 time for cluster A4.

Info for manual annotations of cluster BB1:
•Start number 13 was manually annotated 4 times for cluster BB1.

Info for manual annotations of cluster BB2:
•Start number 13 was manually annotated 3 times for cluster BB2.

Info for manual annotations of cluster CD:
•Start number 13 was manually annotated 1 time for cluster CD.

Info for manual annotations of cluster DF3:
•Start number 9 was manually annotated 1 time for cluster DF3.

Info for manual annotations of cluster DF4:
•Start number 16 was manually annotated 1 time for cluster DF4.

Info for manual annotations of cluster F1:
•Start number 13 was manually annotated 11 times for cluster F1.

Gene Information:

Gene: Camerico_38 Start: 42408, Stop: 42908, Start Num: 16
Candidate Starts for Camerico_38:
(10, 42360), (11, 42366), (Start: 16 @42408 has 1 MA's), (18, 42420), (23, 42492), (24, 42498), (35, 42636), (38, 42702), (40, 42708),

Gene: Cindaradix_74 Start: 47332, Stop: 46844, Start Num: 17
Candidate Starts for Cindaradix_74:
(10, 47386), (Start: 16 @47338 has 1 MA's), (Start: 17 @47332 has 1 MA's), (19, 47317), (26, 47242), (27, 47224), (28, 47215), (33, 47155), (38, 47056), (41, 47041), (44, 46993), (46, 46984),

Gene: Doomphist_73 Start: 45645, Stop: 45947, Start Num: 13
Candidate Starts for Doomphist_73:
(4, 45564), (Start: 13 @45645 has 19 MA's), (21, 45720), (24, 45756), (26, 45780), (33, 45867), (36, 45921),

Gene: Euratis_33 Start: 25788, Stop: 26288, Start Num: 13
Candidate Starts for Euratis_33:
(6, 25764), (Start: 13 @25788 has 19 MA's), (15, 25803), (25, 25902), (27, 25941), (48, 26157), (53, 26235),

Gene: GigiOuiOui_65 Start: 44061, Stop: 44531, Start Num: 13
Candidate Starts for GigiOuiOui_65:
(1, 43938), (2, 43980), (Start: 13 @44061 has 19 MA's), (15, 44076), (24, 44172), (33, 44283),

Gene: Gmala1_28 Start: 35092, Stop: 35631, Start Num: 7
Candidate Starts for Gmala1_28:
(7, 35092), (14, 35122), (Start: 16 @35149 has 1 MA's), (27, 35281),

Gene: GordDuk1_28 Start: 35030, Stop: 35569, Start Num: 7
Candidate Starts for GordDuk1_28:
(7, 35030), (14, 35060), (Start: 16 @35087 has 1 MA's), (27, 35219), (34, 35300),

Gene: GordTnk2_28 Start: 34999, Stop: 35538, Start Num: 7
Candidate Starts for GordTnk2_28:
(7, 34999), (14, 35029), (Start: 16 @35056 has 1 MA's), (27, 35188), (34, 35269),

Gene: Heather_35 Start: 26803, Stop: 27303, Start Num: 13
Candidate Starts for Heather_35:
(Start: 13 @26803 has 19 MA's), (22, 26884), (25, 26917), (27, 26956), (30, 26992), (38, 27124), (40, 27130), (53, 27250),

Gene: Jarcob_69 Start: 45412, Stop: 45819, Start Num: 13
Candidate Starts for Jarcob_69:
(1, 45289), (2, 45331), (Start: 13 @45412 has 19 MA's), (15, 45427), (Start: 17 @45454 has 1 MA's), (19, 45469), (21, 45487), (41, 45742), (45, 45760),

Gene: Jumbo_35 Start: 41371, Stop: 41904, Start Num: 9
Candidate Starts for Jumbo_35:
(Start: 9 @41371 has 1 MA's), (18, 41437), (25, 41518), (40, 41728), (50, 41782),

Gene: Kingsley_70 Start: 46174, Stop: 46698, Start Num: 13
Candidate Starts for Kingsley_70:
(4, 46093), (Start: 13 @46174 has 19 MA's), (24, 46285), (26, 46309), (33, 46396), (38, 46495), (39, 46498), (42, 46519), (49, 46546), (51, 46567),

Gene: Leperchaun_68 Start: 44689, Stop: 44994, Start Num: 13
Candidate Starts for Leperchaun_68:
(4, 44608), (Start: 13 @44689 has 19 MA's), (21, 44764), (24, 44800), (26, 44824), (33, 44911), (36, 44968),

Gene: Lilbooboo_32 Start: 25803, Stop: 26303, Start Num: 13
Candidate Starts for Lilbooboo_32:
(Start: 13 @25803 has 19 MA's), (Start: 16 @25839 has 1 MA's), (25, 25917), (27, 25956), (40, 26130), (48, 26172), (53, 26250),

Gene: Llama_74 Start: 46111, Stop: 46482, Start Num: 13
Candidate Starts for Llama_74:
(1, 45988), (2, 46030), (Start: 13 @46111 has 19 MA's), (18, 46159), (20, 46174), (37, 46402),

Gene: Ochi17_73 Start: 45707, Stop: 46078, Start Num: 13
Candidate Starts for Ochi17_73:
(1, 45584), (2, 45626), (Start: 13 @45707 has 19 MA's), (18, 45755), (20, 45770), (37, 45998),

Gene: OfUltron_75 Start: 46256, Stop: 46627, Start Num: 13
Candidate Starts for OfUltron_75:
(1, 46133), (2, 46175), (Start: 13 @46256 has 19 MA's), (18, 46304), (20, 46319), (37, 46547),

Gene: Phlei_64 Start: 44228, Stop: 43716, Start Num: 12
Candidate Starts for Phlei_64:
(12, 44228), (Start: 16 @44189 has 1 MA's), (24, 44114), (32, 44033), (33, 44006), (41, 43892), (43, 43880), (48, 43832), (52, 43787),

Gene: Poenanya_73 Start: 45645, Stop: 45947, Start Num: 13
Candidate Starts for Poenanya_73:
(4, 45564), (Start: 13 @45645 has 19 MA's), (21, 45720), (24, 45756), (26, 45780), (33, 45867), (36, 45921),

Gene: Polka14_74 Start: 46436, Stop: 46738, Start Num: 13
Candidate Starts for Polka14_74:
(4, 46355), (Start: 13 @46436 has 19 MA's), (21, 46511), (24, 46547), (26, 46571), (33, 46658), (36, 46712),

Gene: RemusLoopin_34 Start: 26998, Stop: 27498, Start Num: 13
Candidate Starts for RemusLoopin_34:
(Start: 9 @26977 has 1 MA's), (Start: 13 @26998 has 19 MA's), (25, 27112), (27, 27151), (38, 27319), (40, 27325), (53, 27445),

Gene: Samora_34 Start: 26403, Stop: 26903, Start Num: 13
Candidate Starts for Samora_34:
(3, 26328), (5, 26337), (Start: 13 @26403 has 19 MA's), (Start: 16 @26439 has 1 MA's), (24, 26514), (25, 26517), (40, 26730), (41, 26739), (48, 26772),

Gene: Samy_49 Start: 33023, Stop: 33553, Start Num: 8
Candidate Starts for Samy_49:
(Start: 8 @33023 has 1 MA's), (Start: 17 @33089 has 1 MA's), (31, 33242),

Gene: Seabastian_75 Start: 46257, Stop: 46628, Start Num: 13
Candidate Starts for Seabastian_75:
(1, 46134), (2, 46176), (Start: 13 @46257 has 19 MA's), (18, 46305), (20, 46320), (37, 46548),

Gene: Sebastisaurus_34 Start: 26720, Stop: 27220, Start Num: 13
Candidate Starts for Sebastisaurus_34:
(Start: 9 @26699 has 1 MA's), (Start: 13 @26720 has 19 MA's), (25, 26834), (27, 26873), (30, 26909), (40, 27047), (48, 27089), (53, 27167),

Gene: Upyo_54 Start: 39880, Stop: 39335, Start Num: 13
Candidate Starts for Upyo_54:
(6, 39916), (Start: 13 @39880 has 19 MA's), (24, 39754), (41, 39538), (47, 39508),

Gene: Vash_32 Start: 25646, Stop: 26146, Start Num: 13
Candidate Starts for Vash_32:

(Start: 13 @25646 has 19 MA's), (Start: 16 @25682 has 1 MA's), (25, 25760), (27, 25799), (40, 25973), (48, 26015), (53, 26093),

Gene: phiBT1_9.1 Start: 27120, Stop: 27620, Start Num: 13
Candidate Starts for phiBT1_9.1:
(3, 27036), (5, 27045), (Start: 13 @27120 has 19 MA's), (24, 27231), (25, 27234), (29, 27297), (40, 27447), (48, 27489),