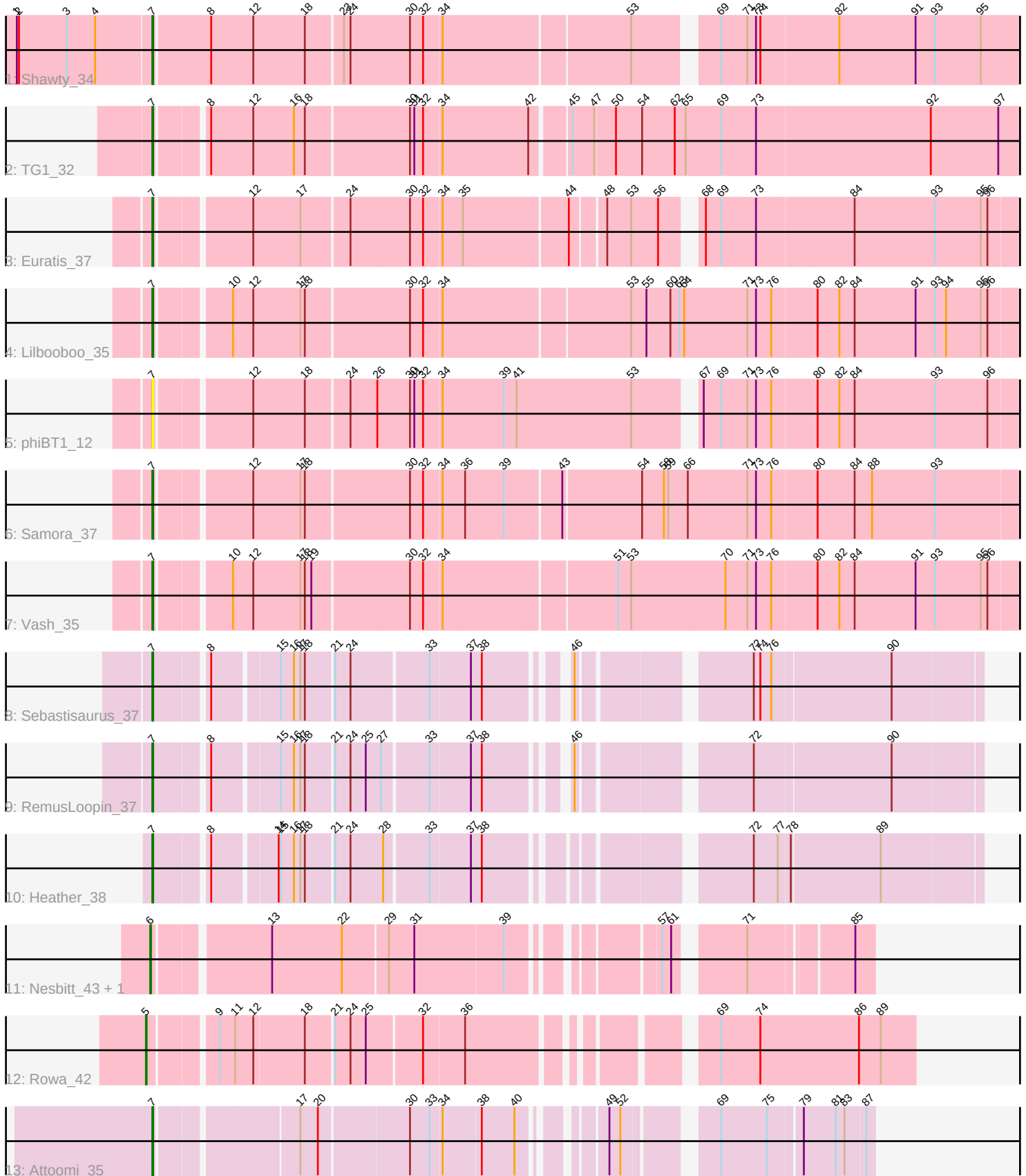


Pham 331364



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 331364 Report

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

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 331364 has 14 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Shawty_34
- Track 2 : TG1_32
- Track 3 : Euratis_37
- Track 4 : Lilbooboo_35
- Track 5 : phiBT1_12
- Track 6 : Samora_37
- Track 7 : Vash_35
- Track 8 : Sebastisaurus_37
- Track 9 : RemusLoopin_37
- Track 10 : Heather_38
- Track 11 : Nesbitt_43, AbbeyMikolon_45
- Track 12 : Rowa_42
- Track 13 : Attoomi_35

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

The start number called the most often in the published annotations is 7, it was called in 10 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Attoomi_35, Euratis_37, Heather_38, Lilbooboo_35, RemusLoopin_37, Samora_37, Sebastisaurus_37, Shawty_34, TG1_32, Vash_35, phiBT1_12,

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

-

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

- AbbeyMikolon_45, Nesbitt_43, Rowa_42,

Summary by start number:

Start 5:

- Found in 1 of 14 (7.1%) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Rowa_42 (BL),

Start 6:

- Found in 2 of 14 (14.3%) of genes in pham
- Manual Annotations of this start: 2 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AbbeyMikolon_45 (BL), Nesbitt_43 (BL),

Start 7:

- Found in 11 of 14 (78.6%) of genes in pham
- Manual Annotations of this start: 10 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Attoomi_35 (singleton), Euratis_37 (BB1), Heather_38 (BB2), Lilbooboo_35 (BB1), RemusLoopin_37 (BB2), Samora_37 (BB1), Sebastisaurus_37 (BB2), Shawty_34 (BB1), TG1_32 (BB1), Vash_35 (BB1), phiBT1_12 (BB1),

Summary by clusters:

There are 4 clusters represented in this pham: BL, singleton, BB2, BB1,

Info for manual annotations of cluster BB1:

- Start number 7 was manually annotated 6 times for cluster BB1.

Info for manual annotations of cluster BB2:

- Start number 7 was manually annotated 3 times for cluster BB2.

Info for manual annotations of cluster BL:

- Start number 5 was manually annotated 1 time for cluster BL.
- Start number 6 was manually annotated 2 times for cluster BL.

Gene Information:

Gene: AbbeyMikolon_45 Start: 32601, Stop: 33461, Start Num: 6

Candidate Starts for AbbeyMikolon_45:

(Start: 6 @32601 has 2 MA's), (13, 32742), (22, 32838), (29, 32898), (31, 32931), (39, 33051), (57, 33216), (61, 33228), (71, 33306), (85, 33435),

Gene: Attoomi_35 Start: 29442, Stop: 30293, Start Num: 7

Candidate Starts for Attoomi_35:

(Start: 7 @29442 has 10 MA's), (17, 29619), (20, 29643), (30, 29757), (33, 29784), (34, 29799), (38, 29850), (40, 29895), (49, 29979), (52, 29994), (69, 30096), (75, 30159), (79, 30201), (81, 30243), (83, 30255), (87, 30282),

Gene: Euratis_37 Start: 29190, Stop: 30332, Start Num: 7

Candidate Starts for Euratis_37:

(Start: 7 @29190 has 10 MA's), (12, 29307), (17, 29370), (24, 29433), (30, 29514), (32, 29532), (34, 29556), (35, 29583), (44, 29718), (48, 29760), (53, 29793), (56, 29829), (68, 29868), (69, 29889), (73, 29937), (84, 30069), (93, 30180), (95, 30243), (96, 30252),

Gene: Heather_38 Start: 30334, Stop: 31347, Start Num: 7

Candidate Starts for Heather_38:

(Start: 7 @30334 has 10 MA's), (8, 30400), (14, 30478), (15, 30481), (16, 30499), (17, 30508), (18, 30514), (21, 30550), (24, 30571), (28, 30616), (33, 30673), (37, 30727), (38, 30742), (72, 31045), (77, 31078), (78, 31093), (89, 31213),

Gene: Lilbooboo_35 Start: 29265, Stop: 30440, Start Num: 7

Candidate Starts for Lilbooboo_35:

(Start: 7 @29265 has 10 MA's), (10, 29355), (12, 29382), (17, 29445), (18, 29451), (30, 29589), (32, 29607), (34, 29631), (53, 29874), (55, 29895), (60, 29928), (63, 29940), (64, 29946), (71, 30033), (73, 30045), (76, 30066), (80, 30126), (82, 30156), (84, 30177), (91, 30261), (93, 30288), (94, 30303), (95, 30351), (96, 30360),

Gene: Nesbitt_43 Start: 32499, Stop: 33359, Start Num: 6

Candidate Starts for Nesbitt_43:

(Start: 6 @32499 has 2 MA's), (13, 32640), (22, 32736), (29, 32796), (31, 32829), (39, 32949), (57, 33114), (61, 33126), (71, 33204), (85, 33333),

Gene: RemusLoopin_37 Start: 30564, Stop: 31568, Start Num: 7

Candidate Starts for RemusLoopin_37:

(Start: 7 @30564 has 10 MA's), (8, 30630), (15, 30711), (16, 30729), (17, 30738), (18, 30744), (21, 30780), (24, 30801), (25, 30822), (27, 30843), (33, 30903), (37, 30957), (38, 30972), (46, 31062), (72, 31266), (90, 31449),

Gene: Rowa_42 Start: 32087, Stop: 33013, Start Num: 5

Candidate Starts for Rowa_42:

(Start: 5 @32087 has 1 MA's), (9, 32168), (11, 32189), (12, 32213), (18, 32279), (21, 32315), (24, 32336), (25, 32357), (32, 32429), (36, 32483), (69, 32753), (74, 32804), (86, 32936), (89, 32966),

Gene: Samora_37 Start: 29836, Stop: 31011, Start Num: 7

Candidate Starts for Samora_37:

(Start: 7 @29836 has 10 MA's), (12, 29953), (17, 30016), (18, 30022), (30, 30160), (32, 30178), (34, 30202), (36, 30232), (39, 30283), (43, 30355), (54, 30460), (58, 30490), (59, 30496), (66, 30523), (71, 30604), (73, 30616), (76, 30637), (80, 30697), (84, 30748), (88, 30772), (93, 30859),

Gene: Sebastisaurus_37 Start: 30256, Stop: 31260, Start Num: 7

Candidate Starts for Sebastisaurus_37:

(Start: 7 @30256 has 10 MA's), (8, 30322), (15, 30403), (16, 30421), (17, 30430), (18, 30436), (21, 30472), (24, 30493), (33, 30595), (37, 30649), (38, 30664), (46, 30754), (72, 30958), (74, 30967), (76, 30982), (90, 31141),

Gene: Shawty_34 Start: 29054, Stop: 30220, Start Num: 7

Candidate Starts for Shawty_34:

(1, 28871), (2, 28874), (3, 28940), (4, 28979), (Start: 7 @29054 has 10 MA's), (8, 29129), (12, 29186), (18, 29255), (23, 29303), (24, 29312), (30, 29393), (32, 29411), (34, 29435), (53, 29678), (69, 29774), (71, 29810), (73, 29822), (74, 29828), (82, 29933), (91, 30038), (93, 30065), (95, 30128),

Gene: TG1_32 Start: 28180, Stop: 29352, Start Num: 7

Candidate Starts for TG1_32:

(Start: 7 @28180 has 10 MA's), (8, 28240), (12, 28297), (16, 28351), (18, 28366), (30, 28504), (31, 28510), (32, 28522), (34, 28546), (42, 28660), (45, 28705), (47, 28735), (50, 28762), (54, 28798), (62, 28843), (65, 28858), (69, 28906), (73, 28954), (92, 29191), (97, 29284),

Gene: Vash_35 Start: 29088, Stop: 30263, Start Num: 7

Candidate Starts for Vash_35:

(Start: 7 @29088 has 10 MA's), (10, 29178), (12, 29205), (17, 29268), (18, 29274), (19, 29283), (30, 29412), (32, 29430), (34, 29454), (51, 29679), (53, 29697), (70, 29826), (71, 29856), (73, 29868), (76, 29889), (80, 29949), (82, 29979), (84, 30000), (91, 30084), (93, 30111), (95, 30174), (96, 30183),

Gene: phiBT1_12 Start: 30570, Stop: 31730, Start Num: 7

Candidate Starts for phiBT1_12:

(Start: 7 @30570 has 10 MA's), (12, 30687), (18, 30756), (24, 30813), (26, 30849), (30, 30894), (31, 30900), (32, 30912), (34, 30936), (39, 31017), (41, 31035), (53, 31191), (67, 31263), (69, 31287), (71, 31323), (73, 31335), (76, 31356), (80, 31416), (82, 31446), (84, 31467), (93, 31578), (96, 31650),