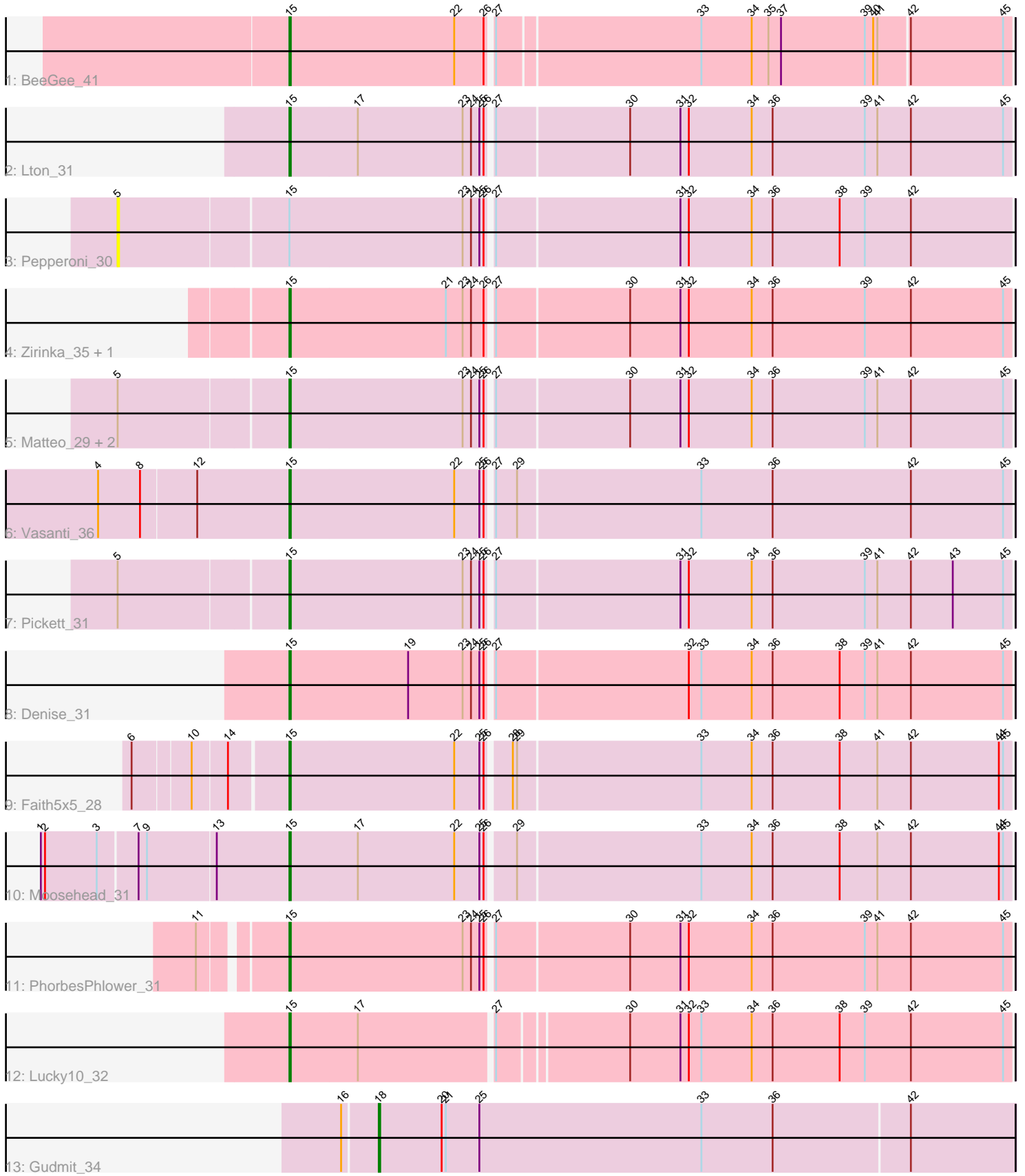


Pham 4579



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 4579 Report

This analysis was run 07/09/24 on database version 566.

Pham number 4579 has 16 members, 1 are drafts.

Phages represented in each track:

- Track 1 : BeeGee_41
- Track 2 : Lton_31
- Track 3 : Pepperoni_30
- Track 4 : Zirinka_35, Bialota_36
- Track 5 : Matteo_29, OneDirection_29, Morkie_32
- Track 6 : Vasanti_36
- Track 7 : Pickett_31
- Track 8 : Denise_31
- Track 9 : Faith5x5_28
- Track 10 : Moosehead_31
- Track 11 : PhorbesPhlower_31
- Track 12 : Lucky10_32
- Track 13 : Gudmit_34

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

The start number called the most often in the published annotations is 15, it was called in 14 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BeeGee_41, Bialota_36, Denise_31, Faith5x5_28, Lton_31, Lucky10_32, Matteo_29, Moosehead_31, Morkie_32, OneDirection_29, PhorbesPhlower_31, Pickett_31, Vasanti_36, Zirinka_35,

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

- Pepperoni_30,

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

- Gudmit_34,

Summary by start number:

Start 5:

- Found in 5 of 16 (31.2%) of genes in pham

- No Manual Annotations of this start.
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Pepperoni_30 (CZ),

Start 15:

- Found in 15 of 16 (93.8%) of genes in pham
- Manual Annotations of this start: 14 of 15
- Called 93.3% of time when present
- Phage (with cluster) where this start called: BeeGee_41 (CY), Bialota_36 (CZ1), Denise_31 (CZ5), Faith5x5_28 (CZ6), Lton_31 (CZ), Lucky10_32 (DH), Matteo_29 (CZ2), Moosehead_31 (CZ6), Morkie_32 (DH), OneDirection_29 (CZ6), PhorbesPhlower_31 (DH), Pickett_31 (CZ2), Vasanti_36 (CZ2), Zirinka_35 (CZ1),

Start 18:

- Found in 1 of 16 (6.2%) of genes in pham
- Manual Annotations of this start: 1 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gudmit_34 (singleton),

Summary by clusters:

There are 8 clusters represented in this pham: singleton, DH, CZ2, CZ1, CZ6, CZ5, CZ, CY,

Info for manual annotations of cluster CY:

- Start number 15 was manually annotated 1 time for cluster CY.

Info for manual annotations of cluster CZ:

- Start number 15 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ1:

- Start number 15 was manually annotated 2 times for cluster CZ1.

Info for manual annotations of cluster CZ2:

- Start number 15 was manually annotated 3 times for cluster CZ2.

Info for manual annotations of cluster CZ5:

- Start number 15 was manually annotated 1 time for cluster CZ5.

Info for manual annotations of cluster CZ6:

- Start number 15 was manually annotated 3 times for cluster CZ6.

Info for manual annotations of cluster DH:

- Start number 15 was manually annotated 3 times for cluster DH.

Gene Information:

Gene: BeeGee_41 Start: 31474, Stop: 30974, Start Num: 15

Candidate Starts for BeeGee_41:

(Start: 15 @31474 has 14 MA's), (22, 31357), (26, 31336), (27, 31333), (33, 31192), (34, 31156), (35, 31144), (37, 31135), (39, 31075), (40, 31069), (41, 31066), (42, 31045), (45, 30979),

Gene: Bialota_36 Start: 31016, Stop: 30510, Start Num: 15

Candidate Starts for Bialota_36:

(Start: 15 @31016 has 14 MA's), (21, 30905), (23, 30893), (24, 30887), (26, 30878), (27, 30875), (30, 30782), (31, 30746), (32, 30740), (34, 30695), (36, 30680), (39, 30614), (42, 30581), (45, 30515),

Gene: Denise_31 Start: 26181, Stop: 25675, Start Num: 15

Candidate Starts for Denise_31:

(Start: 15 @26181 has 14 MA's), (19, 26097), (23, 26058), (24, 26052), (25, 26046), (26, 26043), (27, 26040), (32, 25905), (33, 25896), (34, 25860), (36, 25845), (38, 25797), (39, 25779), (41, 25770), (42, 25746), (45, 25680),

Gene: Faith5x5_28 Start: 24358, Stop: 23852, Start Num: 15

Candidate Starts for Faith5x5_28:

(6, 24460), (10, 24421), (14, 24397), (Start: 15 @24358 has 14 MA's), (22, 24241), (25, 24223), (26, 24220), (28, 24205), (29, 24202), (33, 24073), (34, 24037), (36, 24022), (38, 23974), (41, 23947), (42, 23923), (44, 23860), (45, 23857),

Gene: Gudmit_34 Start: 25511, Stop: 25059, Start Num: 18

Candidate Starts for Gudmit_34:

(16, 25535), (Start: 18 @25511 has 1 MA's), (20, 25466), (21, 25463), (25, 25439), (33, 25280), (36, 25229), (42, 25133),

Gene: Lton_31 Start: 24662, Stop: 24156, Start Num: 15

Candidate Starts for Lton_31:

(Start: 15 @24662 has 14 MA's), (17, 24614), (23, 24539), (24, 24533), (25, 24527), (26, 24524), (27, 24521), (30, 24428), (31, 24392), (32, 24386), (34, 24341), (36, 24326), (39, 24260), (41, 24251), (42, 24227), (45, 24161),

Gene: Lucky10_32 Start: 27343, Stop: 26843, Start Num: 15

Candidate Starts for Lucky10_32:

(Start: 15 @27343 has 14 MA's), (17, 27295), (27, 27202), (30, 27115), (31, 27079), (32, 27073), (33, 27064), (34, 27028), (36, 27013), (38, 26965), (39, 26947), (42, 26914), (45, 26848),

Gene: Matteo_29 Start: 25127, Stop: 24621, Start Num: 15

Candidate Starts for Matteo_29:

(5, 25244), (Start: 15 @25127 has 14 MA's), (23, 25004), (24, 24998), (25, 24992), (26, 24989), (27, 24986), (30, 24893), (31, 24857), (32, 24851), (34, 24806), (36, 24791), (39, 24725), (41, 24716), (42, 24692), (45, 24626),

Gene: Moosehead_31 Start: 24328, Stop: 23822, Start Num: 15

Candidate Starts for Moosehead_31:

(1, 24499), (2, 24496), (3, 24460), (7, 24433), (9, 24427), (13, 24379), (Start: 15 @24328 has 14 MA's), (17, 24280), (22, 24211), (25, 24193), (26, 24190), (29, 24172), (33, 24043), (34, 24007), (36, 23992), (38, 23944), (41, 23917), (42, 23893), (44, 23830), (45, 23827),

Gene: Morkie_32 Start: 25873, Stop: 25367, Start Num: 15

Candidate Starts for Morkie_32:

(5, 25990), (Start: 15 @25873 has 14 MA's), (23, 25750), (24, 25744), (25, 25738), (26, 25735), (27, 25732), (30, 25639), (31, 25603), (32, 25597), (34, 25552), (36, 25537), (39, 25471), (41, 25462), (42, 25438), (45, 25372),

Gene: OneDirection_29 Start: 24495, Stop: 23989, Start Num: 15

Candidate Starts for OneDirection_29:

(5, 24612), (Start: 15 @24495 has 14 MA's), (23, 24372), (24, 24366), (25, 24360), (26, 24357), (27, 24354), (30, 24261), (31, 24225), (32, 24219), (34, 24174), (36, 24159), (39, 24093), (41, 24084), (42, 24060), (45, 23994),

Gene: Pepperoni_30 Start: 25757, Stop: 25134, Start Num: 5

Candidate Starts for Pepperoni_30:

(5, 25757), (Start: 15 @25640 has 14 MA's), (23, 25517), (24, 25511), (25, 25505), (26, 25502), (27, 25499), (31, 25370), (32, 25364), (34, 25319), (36, 25304), (38, 25256), (39, 25238), (42, 25205),

Gene: PhorbesPhlower_31 Start: 25308, Stop: 24802, Start Num: 15

Candidate Starts for PhorbesPhlower_31:

(11, 25362), (Start: 15 @25308 has 14 MA's), (23, 25185), (24, 25179), (25, 25173), (26, 25170), (27, 25167), (30, 25074), (31, 25038), (32, 25032), (34, 24987), (36, 24972), (39, 24906), (41, 24897), (42, 24873), (45, 24807),

Gene: Pickett_31 Start: 24561, Stop: 24055, Start Num: 15

Candidate Starts for Pickett_31:

(5, 24678), (Start: 15 @24561 has 14 MA's), (23, 24438), (24, 24432), (25, 24426), (26, 24423), (27, 24420), (31, 24291), (32, 24285), (34, 24240), (36, 24225), (39, 24159), (41, 24150), (42, 24126), (43, 24096), (45, 24060),

Gene: Vasanti_36 Start: 27589, Stop: 27083, Start Num: 15

Candidate Starts for Vasanti_36:

(4, 27724), (8, 27694), (12, 27655), (Start: 15 @27589 has 14 MA's), (22, 27472), (25, 27454), (26, 27451), (27, 27448), (29, 27433), (33, 27304), (36, 27253), (42, 27154), (45, 27088),

Gene: Zirinka_35 Start: 31004, Stop: 30498, Start Num: 15

Candidate Starts for Zirinka_35:

(Start: 15 @31004 has 14 MA's), (21, 30893), (23, 30881), (24, 30875), (26, 30866), (27, 30863), (30, 30770), (31, 30734), (32, 30728), (34, 30683), (36, 30668), (39, 30602), (42, 30569), (45, 30503),