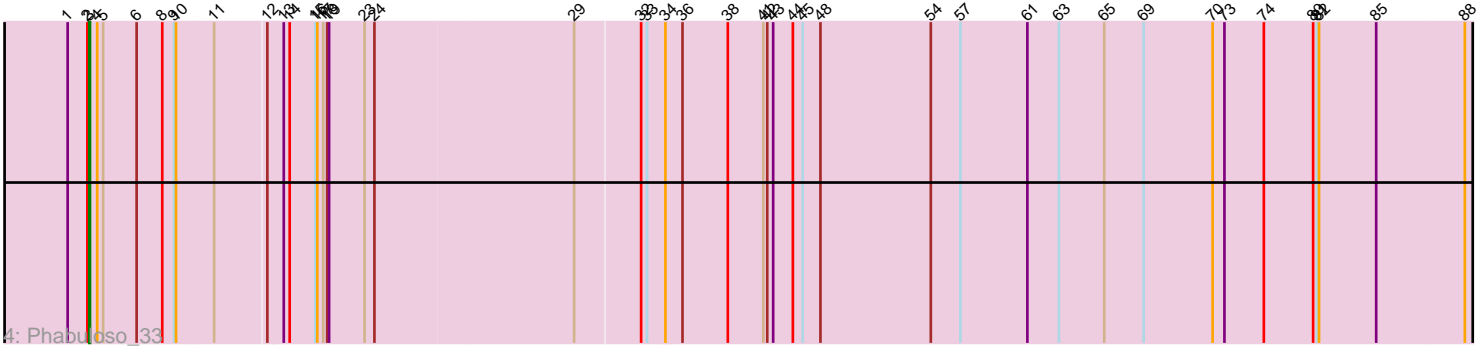
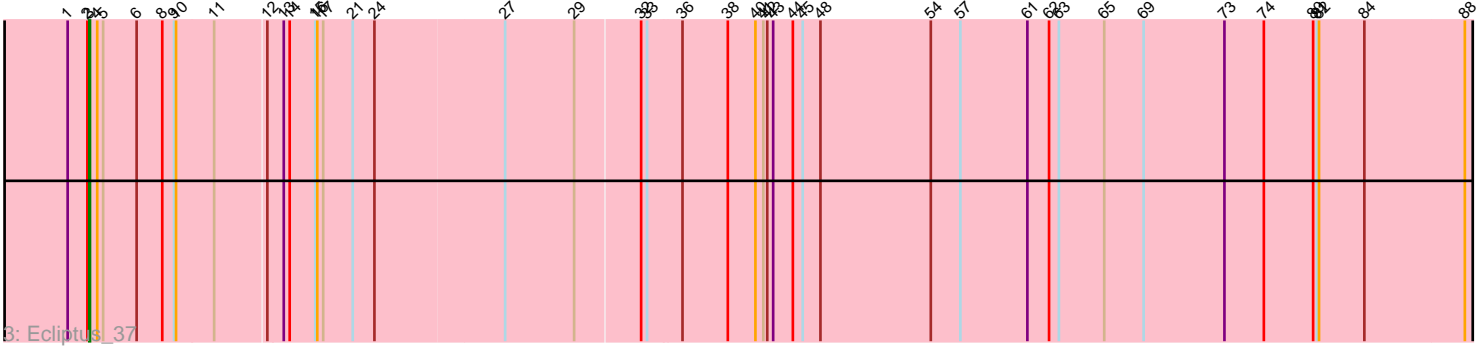
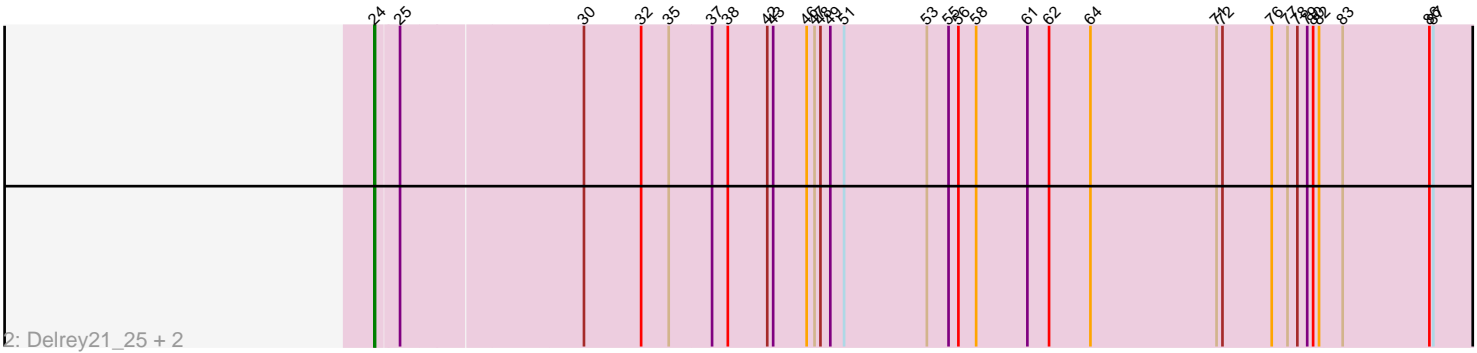
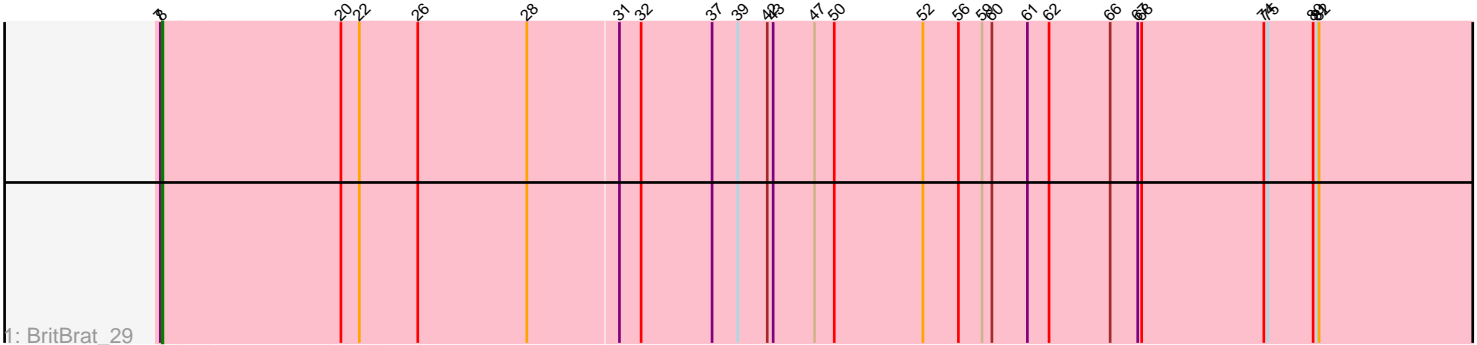


Zoomed Pham 88316



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 88316 Report

This analysis was run 04/28/24 on database version 559.

Pham number 88316 has 6 members, 0 are drafts.

Phages represented in each track:

- Track 1 : BritBrat_29
- Track 2 : Delrey21_25, DoctorFroggo_25, Verity_25
- Track 3 : Ecliptus_37
- Track 4 : Phabuloso_33

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

The start number called the most often in the published annotations is 24, it was called in 3 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Delrey21_25, DoctorFroggo_25, Verity_25,

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

- Ecliptus_37, Phabuloso_33,

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

- BritBrat_29,

Summary by start number:

Start 3:

- Found in 2 of 6 (33.3%) of genes in pham
- Manual Annotations of this start: 2 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ecliptus_37 (DN), Phabuloso_33 (DN1),

Start 8:

- Found in 3 of 6 (50.0%) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 33.3% of time when present
- Phage (with cluster) where this start called: BritBrat_29 (CY2),

Start 24:

- Found in 5 of 6 (83.3%) of genes in pham
- Manual Annotations of this start: 3 of 6
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Delrey21_25 (DE4), DoctorFroggo_25 (DE4), Verity_25 (DE4),

Summary by clusters:

There are 4 clusters represented in this pham: DN, DN1, DE4, CY2,

Info for manual annotations of cluster CY2:

- Start number 8 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster DE4:

- Start number 24 was manually annotated 3 times for cluster DE4.

Info for manual annotations of cluster DN:

- Start number 3 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 3 was manually annotated 1 time for cluster DN1.

Gene Information:

Gene: BritBrat_29 Start: 24575, Stop: 26977, Start Num: 8

Candidate Starts for BritBrat_29:

(7, 24572), (Start: 8 @24575 has 1 MA's), (20, 24836), (22, 24863), (26, 24947), (28, 25112), (31, 25247), (32, 25280), (37, 25388), (39, 25427), (42, 25472), (43, 25481), (47, 25544), (50, 25574), (52, 25709), (56, 25763), (59, 25799), (60, 25814), (61, 25868), (62, 25901), (66, 25994), (67, 26036), (68, 26042), (74, 26228), (75, 26234), (80, 26303), (81, 26309), (82, 26312), (91, 26579), (93, 26600), (98, 26738), (100, 26756), (109, 26948),

Gene: Delrey21_25 Start: 19195, Stop: 21279, Start Num: 24

Candidate Starts for Delrey21_25:

(Start: 24 @19195 has 3 MA's), (25, 19228), (30, 19492), (32, 19579), (35, 19621), (37, 19684), (38, 19708), (42, 19768), (43, 19777), (46, 19828), (47, 19840), (48, 19849), (49, 19864), (51, 19885), (53, 20011), (55, 20044), (56, 20059), (58, 20086), (61, 20164), (62, 20197), (64, 20260), (71, 20452), (72, 20461), (76, 20536), (77, 20560), (78, 20575), (79, 20590), (80, 20599), (82, 20608), (83, 20641), (86, 20773), (87, 20779), (89, 20854), (90, 20863), (91, 20875), (92, 20890), (93, 20896), (94, 20908), (95, 20950), (96, 20974), (97, 21004), (101, 21112), (102, 21139), (103, 21142), (105, 21163), (107, 21208), (108, 21232),

Gene: DoctorFroggo_25 Start: 19195, Stop: 21279, Start Num: 24

Candidate Starts for DoctorFroggo_25:

(Start: 24 @19195 has 3 MA's), (25, 19228), (30, 19492), (32, 19579), (35, 19621), (37, 19684), (38, 19708), (42, 19768), (43, 19777), (46, 19828), (47, 19840), (48, 19849), (49, 19864), (51, 19885), (53, 20011), (55, 20044), (56, 20059), (58, 20086), (61, 20164), (62, 20197), (64, 20260), (71, 20452), (72, 20461), (76, 20536), (77, 20560), (78, 20575), (79, 20590), (80, 20599), (82, 20608), (83, 20641), (86, 20773), (87, 20779), (89, 20854), (90, 20863), (91, 20875), (92, 20890), (93, 20896), (94, 20908), (95, 20950), (96, 20974), (97, 21004), (101, 21112), (102, 21139), (103, 21142), (105, 21163), (107, 21208), (108, 21232),

Gene: Ecliptus_37 Start: 27859, Stop: 30372, Start Num: 3

Candidate Starts for Ecliptus_37:

(1, 27826), (2, 27856), (Start: 3 @27859 has 2 MA's), (4, 27871), (5, 27880), (6, 27931), (Start: 8 @27970 has 1 MA's), (9, 27988), (10, 27991), (11, 28048), (12, 28123), (13, 28147), (14, 28156), (15, 28195), (16, 28198), (17, 28207), (21, 28252), (Start: 24 @28285 has 3 MA's), (27, 28477), (29, 28582), (32, 28678), (33, 28687), (36, 28738), (38, 28807), (40, 28849), (41, 28861), (42, 28867), (43, 28876), (44, 28906), (45, 28921), (48, 28948), (54, 29116), (57, 29161), (61, 29263), (62, 29296), (63, 29311), (65, 29380), (69, 29440), (73, 29563), (74, 29623), (80, 29698), (81, 29704), (82, 29707), (84, 29776), (88, 29926), (99, 30142), (100, 30151), (104, 30238), (106, 30277), (108, 30325),

Gene: Phabuloso_33 Start: 26068, Stop: 28581, Start Num: 3

Candidate Starts for Phabuloso_33:

(1, 26035), (2, 26065), (Start: 3 @26068 has 2 MA's), (4, 26080), (5, 26089), (6, 26140), (Start: 8 @26179 has 1 MA's), (9, 26197), (10, 26200), (11, 26257), (12, 26332), (13, 26356), (14, 26365), (15, 26404), (16, 26407), (17, 26416), (18, 26422), (19, 26425), (23, 26479), (Start: 24 @26494 has 3 MA's), (29, 26791), (32, 26887), (33, 26896), (34, 26923), (36, 26947), (38, 27016), (41, 27070), (42, 27076), (43, 27085), (44, 27115), (45, 27130), (48, 27157), (54, 27325), (57, 27370), (61, 27472), (63, 27520), (65, 27589), (69, 27649), (70, 27754), (73, 27772), (74, 27832), (80, 27907), (81, 27913), (82, 27916), (85, 28003), (88, 28135), (99, 28351), (100, 28360), (104, 28447), (106, 28486), (108, 28534),

Gene: Verity_25 Start: 19195, Stop: 21279, Start Num: 24

Candidate Starts for Verity_25:

(Start: 24 @19195 has 3 MA's), (25, 19228), (30, 19492), (32, 19579), (35, 19621), (37, 19684), (38, 19708), (42, 19768), (43, 19777), (46, 19828), (47, 19840), (48, 19849), (49, 19864), (51, 19885), (53, 20011), (55, 20044), (56, 20059), (58, 20086), (61, 20164), (62, 20197), (64, 20260), (71, 20452), (72, 20461), (76, 20536), (77, 20560), (78, 20575), (79, 20590), (80, 20599), (82, 20608), (83, 20641), (86, 20773), (87, 20779), (89, 20854), (90, 20863), (91, 20875), (92, 20890), (93, 20896), (94, 20908), (95, 20950), (96, 20974), (97, 21004), (101, 21112), (102, 21139), (103, 21142), (105, 21163), (107, 21208), (108, 21232),