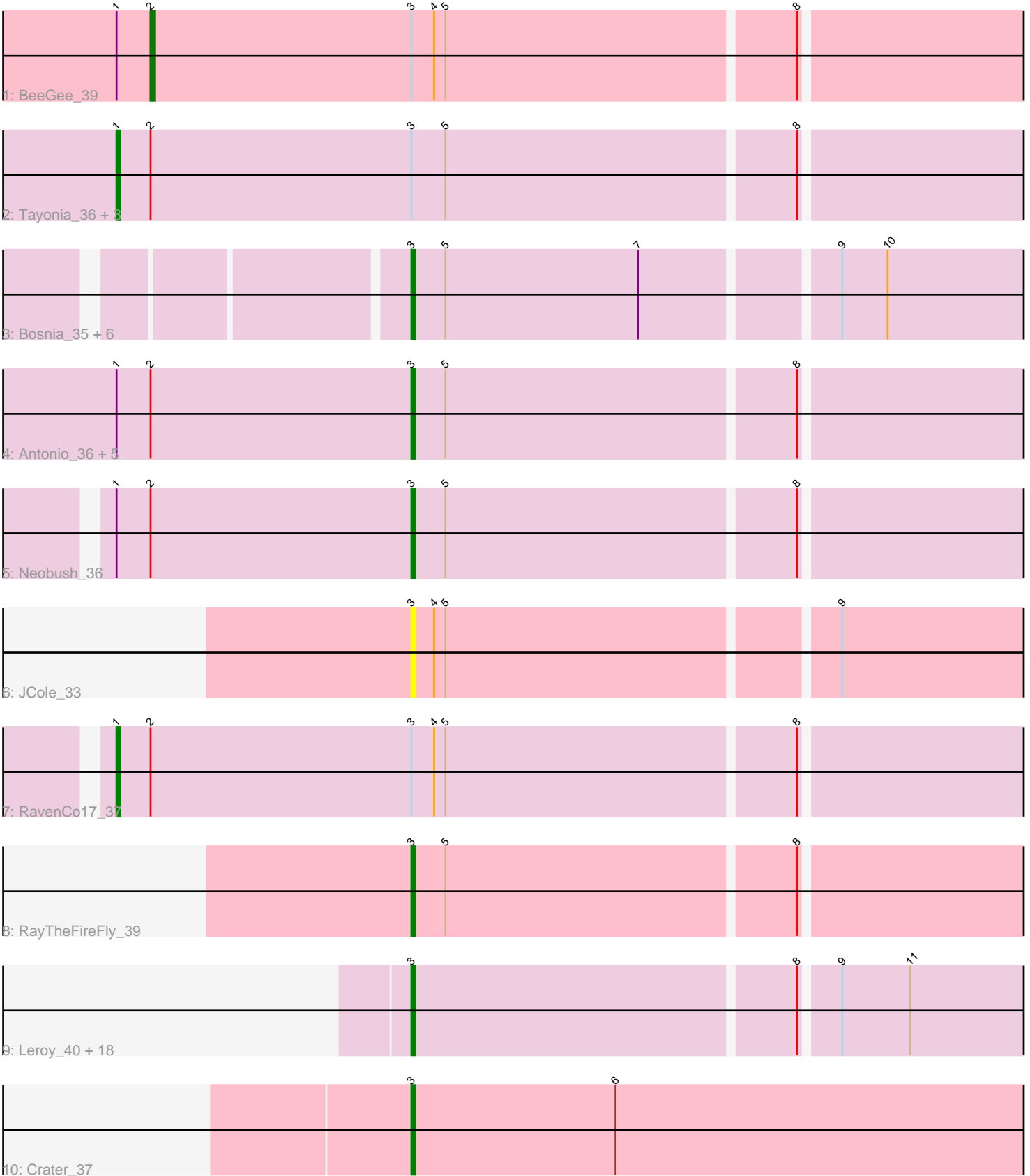


Pham 2308



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 2308 Report

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

Pham number 2308 has 42 members, 3 are drafts.

Phages represented in each track:

- Track 1 : BeeGee_39
- Track 2 : Tayonia_36, Manasvini_36, Maridalia_35, Kita_37
- Track 3 : Bosnia_35, Herod_35, Hugley_33, Eviarto_35, BatStarr_35, Nymphadora_35, TimTam_35
- Track 4 : Antonio_36, Zameen_36, Suscepit_36, Polly_33, Eudoria_36, Trumpet_36
- Track 5 : Neobush_36
- Track 6 : JCole_33
- Track 7 : RavenCo17_37
- Track 8 : RayTheFireFly_39
- Track 9 : Leroy_40, CheeseTouch_38, Periwinkle_43, Kenna_39, Budski_40, Horus_40, Getalong_41, Holliday_39, Phistory_40, Lutum_40, Apricot_39, Ecliptus_41, BearBQ_39, Asapag_40, Frickyeh_40, Phabuloso_37, ODay_43, BENtherdunthat_39, Whitney_43
- Track 10 : Crater_37

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

The start number called the most often in the published annotations is 3, it was called in 33 of the 39 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Antonio_36, Apricot_39, Asapag_40, BENtherdunthat_39, BatStarr_35, BearBQ_39, Bosnia_35, Budski_40, CheeseTouch_38, Crater_37, Ecliptus_41, Eudoria_36, Eviarto_35, Frickyeh_40, Getalong_41, Herod_35, Holliday_39, Horus_40, Hugley_33, JCole_33, Kenna_39, Leroy_40, Lutum_40, Neobush_36, Nymphadora_35, ODay_43, Periwinkle_43, Phabuloso_37, Phistory_40, Polly_33, RayTheFireFly_39, Suscepit_36, TimTam_35, Trumpet_36, Whitney_43, Zameen_36,

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

- BeeGee_39, Kita_37, Manasvini_36, Maridalia_35, RavenCo17_37, Tayonia_36,

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

-

Summary by start number:

Start 1:

- Found in 13 of 42 (31.0%) of genes in pham
- Manual Annotations of this start: 5 of 39
- Called 38.5% of time when present
- Phage (with cluster) where this start called: Kita_37 (CZ1), Manasvini_36 (CZ1), Maridalia_35 (CZ1), RavenCo17_37 (CZ8), Tayonia_36 (CZ1),

Start 2:

- Found in 13 of 42 (31.0%) of genes in pham
- Manual Annotations of this start: 1 of 39
- Called 7.7% of time when present
- Phage (with cluster) where this start called: BeeGee_39 (CY),

Start 3:

- Found in 42 of 42 (100.0%) of genes in pham
- Manual Annotations of this start: 33 of 39
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Antonio_36 (CZ1), Apricot_39 (DN3), Asapag_40 (DN1), BENtherdunthat_39 (DN1), BatStarr_35 (CZ1), BearBQ_39 (DN), Bosnia_35 (CZ1), Budski_40 (DN), CheeseTouch_38 (DN1), Crater_37 (DN3), Ecliptus_41 (DN), Eudoria_36 (CZ1), Eviarto_35 (CZ1), Frickyeah_40 (DN1), Getalong_41 (DN1), Herod_35 (CZ1), Holliday_39 (DN1), Horus_40 (DN1), Hugley_33 (CZ1), JCole_33 (CZ2), Kenna_39 (DN1), Leroy_40 (DN1), Lutum_40 (DN1), Neobush_36 (CZ1), Nymphadora_35 (CZ1), ODay_43 (DN), Periwinkle_43 (DN1), Phabuloso_37 (DN1), Phistory_40 (DN1), Polly_33 (CZ1), RayTheFireFly_39 (DB), Suscepit_36 (CZ1), TimTam_35 (CZ1), Trumpet_36 (CZ1), Whitney_43 (DN1), Zameen_36 (CZ1),

Summary by clusters:

There are 8 clusters represented in this pham: DN, CZ8, CZ2, CZ1, DB, CY, DN1, DN3,

Info for manual annotations of cluster CY:

- Start number 2 was manually annotated 1 time for cluster CY.

Info for manual annotations of cluster CZ1:

- Start number 1 was manually annotated 4 times for cluster CZ1.
- Start number 3 was manually annotated 13 times for cluster CZ1.

Info for manual annotations of cluster CZ8:

- Start number 1 was manually annotated 1 time for cluster CZ8.

Info for manual annotations of cluster DB:

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

Info for manual annotations of cluster DN:

- Start number 3 was manually annotated 4 times for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 3 was manually annotated 13 times for cluster DN1.

Info for manual annotations of cluster DN3:

- Start number 3 was manually annotated 2 times for cluster DN3.

Gene Information:

Gene: Antonio_36 Start: 29511, Stop: 29341, Start Num: 3

Candidate Starts for Antonio_36:

(Start: 1 @29589 has 5 MA's), (Start: 2 @29580 has 1 MA's), (Start: 3 @29511 has 33 MA's), (5, 29502), (8, 29412),

Gene: Apricot_39 Start: 29103, Stop: 28933, Start Num: 3

Candidate Starts for Apricot_39:

(Start: 3 @29103 has 33 MA's), (8, 29004), (9, 28995), (11, 28977),

Gene: Asapag_40 Start: 30695, Stop: 30525, Start Num: 3

Candidate Starts for Asapag_40:

(Start: 3 @30695 has 33 MA's), (8, 30596), (9, 30587), (11, 30569),

Gene: BENtherdunthat_39 Start: 28906, Stop: 28736, Start Num: 3

Candidate Starts for BENtherdunthat_39:

(Start: 3 @28906 has 33 MA's), (8, 28807), (9, 28798), (11, 28780),

Gene: BatStarr_35 Start: 29678, Stop: 29508, Start Num: 3

Candidate Starts for BatStarr_35:

(Start: 3 @29678 has 33 MA's), (5, 29669), (7, 29618), (9, 29570), (10, 29558),

Gene: BearBQ_39 Start: 30330, Stop: 30160, Start Num: 3

Candidate Starts for BearBQ_39:

(Start: 3 @30330 has 33 MA's), (8, 30231), (9, 30222), (11, 30204),

Gene: BeeGee_39 Start: 30530, Stop: 30291, Start Num: 2

Candidate Starts for BeeGee_39:

(Start: 1 @30539 has 5 MA's), (Start: 2 @30530 has 1 MA's), (Start: 3 @30461 has 33 MA's), (4, 30455), (5, 30452), (8, 30362),

Gene: Bosnia_35 Start: 29678, Stop: 29508, Start Num: 3

Candidate Starts for Bosnia_35:

(Start: 3 @29678 has 33 MA's), (5, 29669), (7, 29618), (9, 29570), (10, 29558),

Gene: Budski_40 Start: 30657, Stop: 30487, Start Num: 3

Candidate Starts for Budski_40:

(Start: 3 @30657 has 33 MA's), (8, 30558), (9, 30549), (11, 30531),

Gene: CheeseTouch_38 Start: 27257, Stop: 27087, Start Num: 3

Candidate Starts for CheeseTouch_38:

(Start: 3 @27257 has 33 MA's), (8, 27158), (9, 27149), (11, 27131),

Gene: Crater_37 Start: 28628, Stop: 28452, Start Num: 3

Candidate Starts for Crater_37:

(Start: 3 @28628 has 33 MA's), (6, 28574),

Gene: Ecliptus_41 Start: 31161, Stop: 30991, Start Num: 3

Candidate Starts for Ecliptus_41:

(Start: 3 @31161 has 33 MA's), (8, 31062), (9, 31053), (11, 31035),

Gene: Eudoria_36 Start: 29511, Stop: 29341, Start Num: 3

Candidate Starts for Eudoria_36:

(Start: 1 @29589 has 5 MA's), (Start: 2 @29580 has 1 MA's), (Start: 3 @29511 has 33 MA's), (5, 29502), (8, 29412),

Gene: Eviarto_35 Start: 29654, Stop: 29484, Start Num: 3

Candidate Starts for Eviarto_35:

(Start: 3 @29654 has 33 MA's), (5, 29645), (7, 29594), (9, 29546), (10, 29534),

Gene: Frickyeah_40 Start: 28796, Stop: 28626, Start Num: 3

Candidate Starts for Frickyeah_40:

(Start: 3 @28796 has 33 MA's), (8, 28697), (9, 28688), (11, 28670),

Gene: Getalong_41 Start: 31516, Stop: 31346, Start Num: 3

Candidate Starts for Getalong_41:

(Start: 3 @31516 has 33 MA's), (8, 31417), (9, 31408), (11, 31390),

Gene: Herod_35 Start: 29678, Stop: 29508, Start Num: 3

Candidate Starts for Herod_35:

(Start: 3 @29678 has 33 MA's), (5, 29669), (7, 29618), (9, 29570), (10, 29558),

Gene: Holliday_39 Start: 29371, Stop: 29201, Start Num: 3

Candidate Starts for Holliday_39:

(Start: 3 @29371 has 33 MA's), (8, 29272), (9, 29263), (11, 29245),

Gene: Horus_40 Start: 30717, Stop: 30547, Start Num: 3

Candidate Starts for Horus_40:

(Start: 3 @30717 has 33 MA's), (8, 30618), (9, 30609), (11, 30591),

Gene: Hugley_33 Start: 29677, Stop: 29507, Start Num: 3

Candidate Starts for Hugley_33:

(Start: 3 @29677 has 33 MA's), (5, 29668), (7, 29617), (9, 29569), (10, 29557),

Gene: JCole_33 Start: 26334, Stop: 26164, Start Num: 3

Candidate Starts for JCole_33:

(Start: 3 @26334 has 33 MA's), (4, 26328), (5, 26325), (9, 26226),

Gene: Kenna_39 Start: 29707, Stop: 29537, Start Num: 3

Candidate Starts for Kenna_39:

(Start: 3 @29707 has 33 MA's), (8, 29608), (9, 29599), (11, 29581),

Gene: Kita_37 Start: 29598, Stop: 29350, Start Num: 1

Candidate Starts for Kita_37:

(Start: 1 @29598 has 5 MA's), (Start: 2 @29589 has 1 MA's), (Start: 3 @29520 has 33 MA's), (5, 29511), (8, 29421),

Gene: Leroy_40 Start: 30718, Stop: 30548, Start Num: 3
Candidate Starts for Leroy_40:
(Start: 3 @30718 has 33 MA's), (8, 30619), (9, 30610), (11, 30592),

Gene: Lutum_40 Start: 29707, Stop: 29537, Start Num: 3
Candidate Starts for Lutum_40:
(Start: 3 @29707 has 33 MA's), (8, 29608), (9, 29599), (11, 29581),

Gene: Manasvini_36 Start: 29590, Stop: 29342, Start Num: 1
Candidate Starts for Manasvini_36:
(Start: 1 @29590 has 5 MA's), (Start: 2 @29581 has 1 MA's), (Start: 3 @29512 has 33 MA's), (5, 29503), (8, 29413),

Gene: Maridalia_35 Start: 29589, Stop: 29341, Start Num: 1
Candidate Starts for Maridalia_35:
(Start: 1 @29589 has 5 MA's), (Start: 2 @29580 has 1 MA's), (Start: 3 @29511 has 33 MA's), (5, 29502), (8, 29412),

Gene: Neobush_36 Start: 29511, Stop: 29341, Start Num: 3
Candidate Starts for Neobush_36:
(Start: 1 @29589 has 5 MA's), (Start: 2 @29580 has 1 MA's), (Start: 3 @29511 has 33 MA's), (5, 29502), (8, 29412),

Gene: Nymphadora_35 Start: 29678, Stop: 29508, Start Num: 3
Candidate Starts for Nymphadora_35:
(Start: 3 @29678 has 33 MA's), (5, 29669), (7, 29618), (9, 29570), (10, 29558),

Gene: ODay_43 Start: 31181, Stop: 31011, Start Num: 3
Candidate Starts for ODay_43:
(Start: 3 @31181 has 33 MA's), (8, 31082), (9, 31073), (11, 31055),

Gene: Periwinkle_43 Start: 31162, Stop: 30992, Start Num: 3
Candidate Starts for Periwinkle_43:
(Start: 3 @31162 has 33 MA's), (8, 31063), (9, 31054), (11, 31036),

Gene: Phabuloso_37 Start: 29419, Stop: 29249, Start Num: 3
Candidate Starts for Phabuloso_37:
(Start: 3 @29419 has 33 MA's), (8, 29320), (9, 29311), (11, 29293),

Gene: Phistory_40 Start: 30059, Stop: 29889, Start Num: 3
Candidate Starts for Phistory_40:
(Start: 3 @30059 has 33 MA's), (8, 29960), (9, 29951), (11, 29933),

Gene: Polly_33 Start: 28954, Stop: 28784, Start Num: 3
Candidate Starts for Polly_33:
(Start: 1 @29032 has 5 MA's), (Start: 2 @29023 has 1 MA's), (Start: 3 @28954 has 33 MA's), (5, 28945), (8, 28855),

Gene: RavenCo17_37 Start: 30415, Stop: 30167, Start Num: 1
Candidate Starts for RavenCo17_37:
(Start: 1 @30415 has 5 MA's), (Start: 2 @30406 has 1 MA's), (Start: 3 @30337 has 33 MA's), (4, 30331), (5, 30328), (8, 30238),

Gene: RayTheFireFly_39 Start: 30060, Stop: 29890, Start Num: 3

Candidate Starts for RayTheFireFly_39:

(Start: 3 @30060 has 33 MA's), (5, 30051), (8, 29961),

Gene: Suscepit_36 Start: 29512, Stop: 29342, Start Num: 3

Candidate Starts for Suscepit_36:

(Start: 1 @29590 has 5 MA's), (Start: 2 @29581 has 1 MA's), (Start: 3 @29512 has 33 MA's), (5, 29503), (8, 29413),

Gene: Tayonia_36 Start: 29589, Stop: 29341, Start Num: 1

Candidate Starts for Tayonia_36:

(Start: 1 @29589 has 5 MA's), (Start: 2 @29580 has 1 MA's), (Start: 3 @29511 has 33 MA's), (5, 29502), (8, 29412),

Gene: TimTam_35 Start: 29678, Stop: 29508, Start Num: 3

Candidate Starts for TimTam_35:

(Start: 3 @29678 has 33 MA's), (5, 29669), (7, 29618), (9, 29570), (10, 29558),

Gene: Trumpet_36 Start: 29512, Stop: 29342, Start Num: 3

Candidate Starts for Trumpet_36:

(Start: 1 @29590 has 5 MA's), (Start: 2 @29581 has 1 MA's), (Start: 3 @29512 has 33 MA's), (5, 29503), (8, 29413),

Gene: Whitney_43 Start: 32699, Stop: 32529, Start Num: 3

Candidate Starts for Whitney_43:

(Start: 3 @32699 has 33 MA's), (8, 32600), (9, 32591), (11, 32573),

Gene: Zameen_36 Start: 29511, Stop: 29341, Start Num: 3

Candidate Starts for Zameen_36:

(Start: 1 @29589 has 5 MA's), (Start: 2 @29580 has 1 MA's), (Start: 3 @29511 has 33 MA's), (5, 29502), (8, 29412),