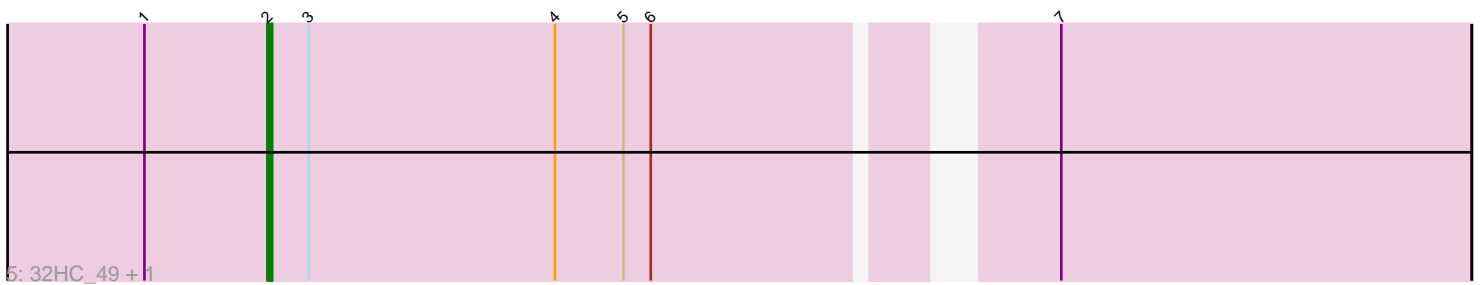
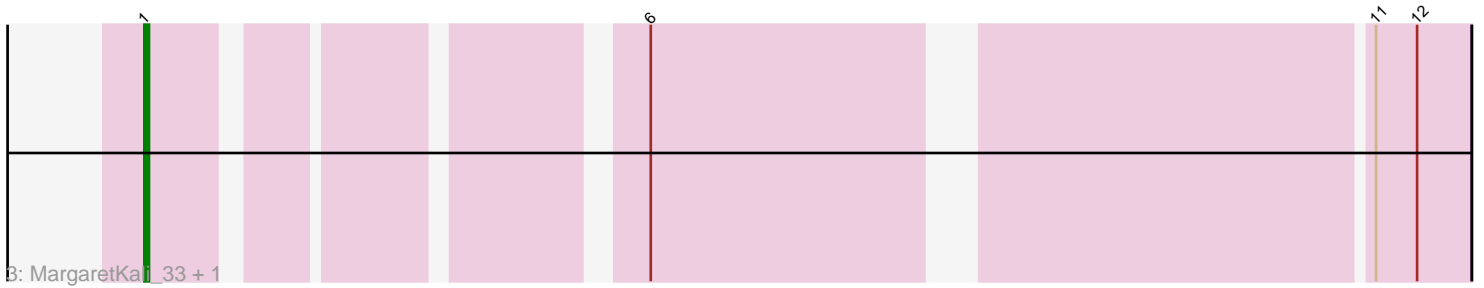
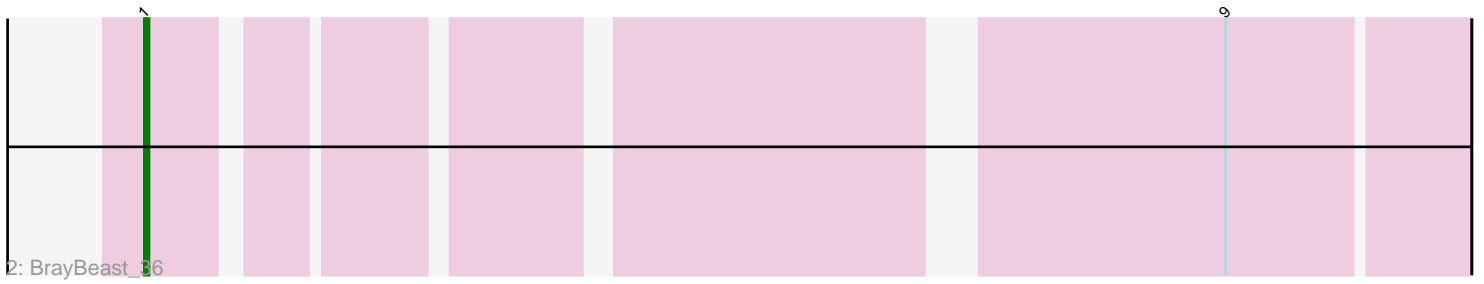
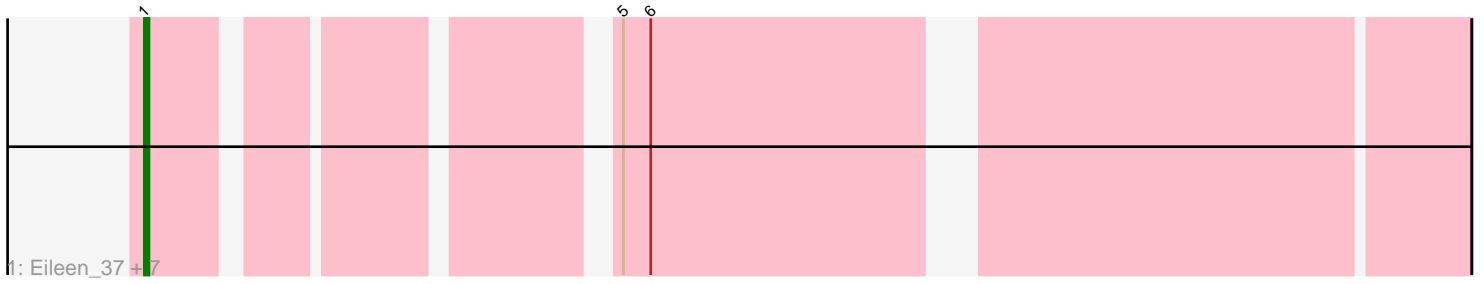


Pham 158278



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 158278 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158278 has 14 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Eileen_37, Judy_42, Constance_41, Peas_38, RootBeer_34, Bridgette_41, ChuckDuck_42, GlobiWarming_41
- Track 2 : BrayBeast_36
- Track 3 : MargaretKali_33, Kumotta_33
- Track 4 : BlackSpider_39
- Track 5 : 32HC_49, Rem711_48

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

The start number called the most often in the published annotations is 1, it was called in 9 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BlackSpider_39, BrayBeast_36, Bridgette_41, ChuckDuck_42, Constance_41, Eileen_37, GlobiWarming_41, Judy_42, Kumotta_33, MargaretKali_33, Peas_38, RootBeer_34,

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

- 32HC_49, Rem711_48,

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

-

Summary by start number:

Start 1:

- Found in 14 of 14 (100.0%) of genes in pham
- Manual Annotations of this start: 9 of 10
- Called 85.7% of time when present
- Phage (with cluster) where this start called: BlackSpider_39 (FN), BrayBeast_36 (FB), Bridgette_41 (FA), ChuckDuck_42 (FA), Constance_41 (FA), Eileen_37 (FA), GlobiWarming_41 (FA), Judy_42 (FA), Kumotta_33 (FB), MargaretKali_33 (FB), Peas_38 (FA), RootBeer_34 (FA),

Start 2:

- Found in 2 of 14 (14.3%) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 32HC_49 (Z), Rem711_48 (Z),

Summary by clusters:

There are 4 clusters represented in this pham: FA, FB, Z, FN,

Info for manual annotations of cluster FA:

- Start number 1 was manually annotated 6 times for cluster FA.

Info for manual annotations of cluster FB:

- Start number 1 was manually annotated 3 times for cluster FB.

Info for manual annotations of cluster Z:

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

Gene Information:

Gene: 32HC_49 Start: 34204, Stop: 34452, Start Num: 2

Candidate Starts for 32HC_49:

(Start: 1 @34177 has 9 MA's), (Start: 2 @34204 has 1 MA's), (3, 34213), (4, 34267), (5, 34282), (6, 34288), (7, 34363),

Gene: BlackSpider_39 Start: 28835, Stop: 29107, Start Num: 1

Candidate Starts for BlackSpider_39:

(Start: 1 @28835 has 9 MA's), (8, 29033), (10, 29084),

Gene: BrayBeast_36 Start: 26166, Stop: 26420, Start Num: 1

Candidate Starts for BrayBeast_36:

(Start: 1 @26166 has 9 MA's), (9, 26370),

Gene: Bridgette_41 Start: 28919, Stop: 29173, Start Num: 1

Candidate Starts for Bridgette_41:

(Start: 1 @28919 has 9 MA's), (5, 29003), (6, 29009),

Gene: ChuckDuck_42 Start: 28742, Stop: 28996, Start Num: 1

Candidate Starts for ChuckDuck_42:

(Start: 1 @28742 has 9 MA's), (5, 28826), (6, 28832),

Gene: Constance_41 Start: 29071, Stop: 29325, Start Num: 1

Candidate Starts for Constance_41:

(Start: 1 @29071 has 9 MA's), (5, 29155), (6, 29161),

Gene: Eileen_37 Start: 27149, Stop: 27403, Start Num: 1

Candidate Starts for Eileen_37:

(Start: 1 @27149 has 9 MA's), (5, 27233), (6, 27239),

Gene: GlobiWarming_41 Start: 28325, Stop: 28579, Start Num: 1
Candidate Starts for GlobiWarming_41:
(Start: 1 @28325 has 9 MA's), (5, 28409), (6, 28415),

Gene: Judy_42 Start: 29237, Stop: 29491, Start Num: 1
Candidate Starts for Judy_42:
(Start: 1 @29237 has 9 MA's), (5, 29321), (6, 29327),

Gene: Kumotta_33 Start: 26166, Stop: 26420, Start Num: 1
Candidate Starts for Kumotta_33:
(Start: 1 @26166 has 9 MA's), (6, 26256), (11, 26400), (12, 26409),

Gene: MargaretKali_33 Start: 25801, Stop: 26055, Start Num: 1
Candidate Starts for MargaretKali_33:
(Start: 1 @25801 has 9 MA's), (6, 25891), (11, 26035), (12, 26044),

Gene: Peas_38 Start: 29296, Stop: 29550, Start Num: 1
Candidate Starts for Peas_38:
(Start: 1 @29296 has 9 MA's), (5, 29380), (6, 29386),

Gene: Rem711_48 Start: 34188, Stop: 34436, Start Num: 2
Candidate Starts for Rem711_48:
(Start: 1 @34161 has 9 MA's), (Start: 2 @34188 has 1 MA's), (3, 34197), (4, 34251), (5, 34266), (6, 34272), (7, 34347),

Gene: RootBeer_34 Start: 25199, Stop: 25453, Start Num: 1
Candidate Starts for RootBeer_34:
(Start: 1 @25199 has 9 MA's), (5, 25283), (6, 25289),