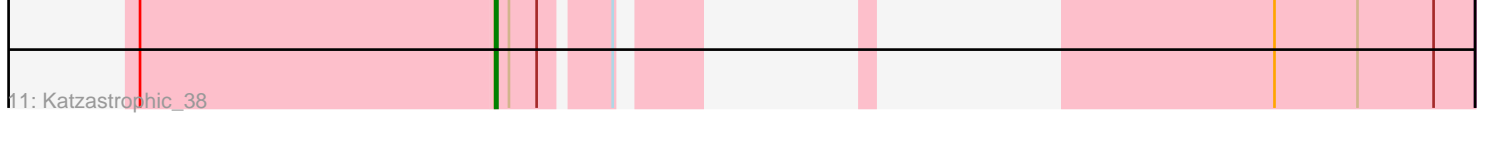
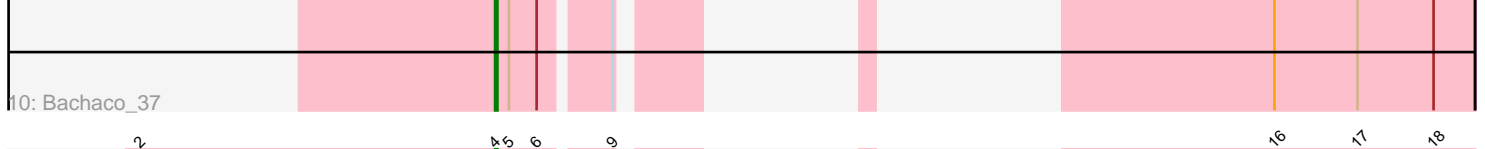
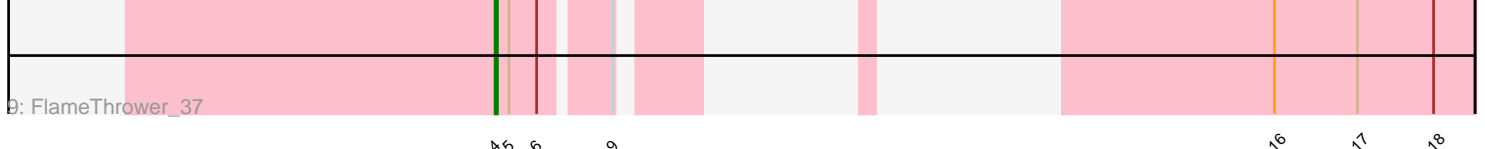
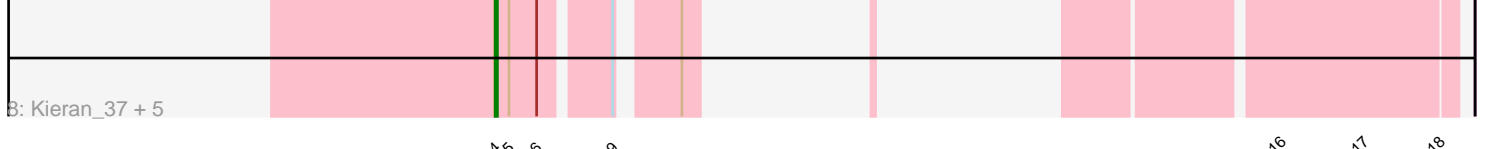
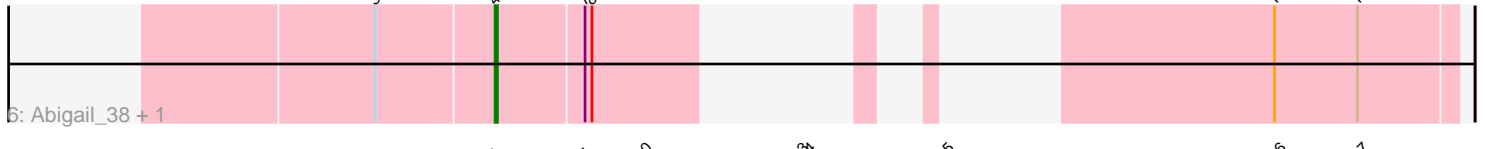
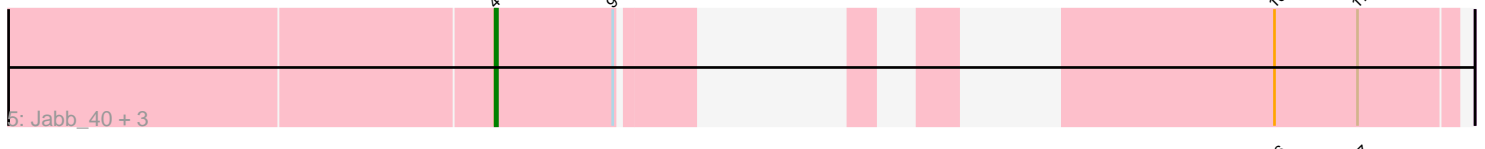
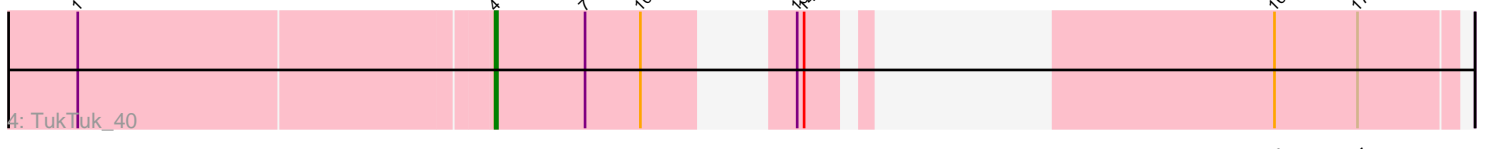
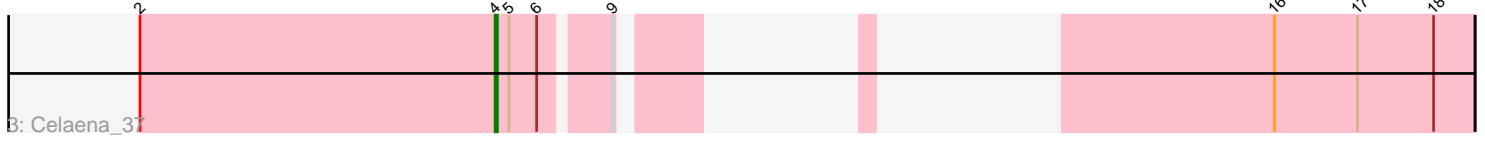
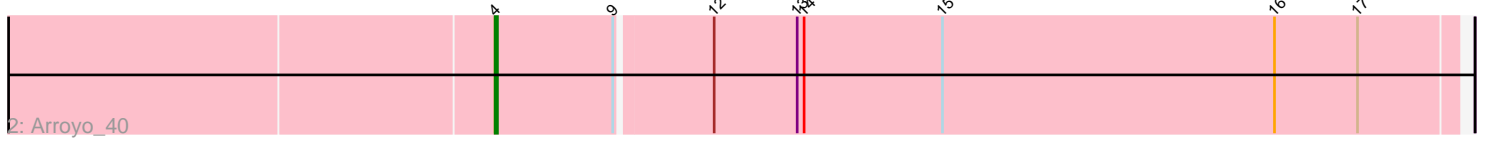
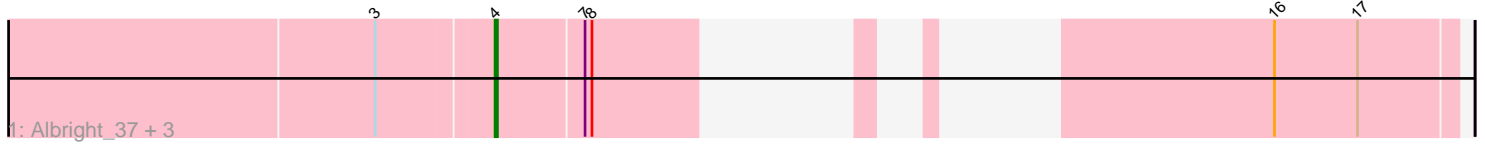


Pham 293097



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 293097 Report

This analysis was run 04/18/26 on database version 643.

Pham number 293097 has 24 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Albright\_37, Doobus\_38, Cashington\_37, Avocadoman\_38
- Track 2 : Arroyo\_40
- Track 3 : Celaena\_37
- Track 4 : TukTuk\_40
- Track 5 : Jabb\_40, CupcakePrincess\_40, Jovita\_40, MsUbiquitous\_40
- Track 6 : Abigail\_38, LimaBean\_38
- Track 7 : CroZenni\_39, DickRichards\_38
- Track 8 : Kieran\_37, ChiliPepper\_36, Rona\_37, Kamdara\_37, Sharkboy\_38, Dismas\_37
- Track 9 : FlameThrower\_37
- Track 10 : Bachaco\_37
- Track 11 : Katzastrophic\_38

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

The start number called the most often in the published annotations is 4, it was called in 22 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abigail\_38, Albright\_37, Arroyo\_40, Avocadoman\_38, Bachaco\_37, Cashington\_37, Celaena\_37, ChiliPepper\_36, CroZenni\_39, CupcakePrincess\_40, DickRichards\_38, Dismas\_37, Doobus\_38, FlameThrower\_37, Jabb\_40, Jovita\_40, Kamdara\_37, Katzastrophic\_38, Kieran\_37, LimaBean\_38, MsUbiquitous\_40, Rona\_37, Sharkboy\_38, TukTuk\_40,

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

- 

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

- 

### **Summary by start number:**

Start 4:

- Found in 24 of 24 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 22 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abigail\_38 (EB), Albright\_37 (EB), Arroyo\_40 (EB), Avocadoman\_38 (EB), Bachaco\_37 (EB), Cashington\_37 (EB), Celaena\_37 (EB), ChiliPepper\_36 (EB), CroZenni\_39 (EB), CupcakePrincess\_40 (EB), DickRichards\_38 (EB), Dismas\_37 (EB), Doobus\_38 (EB), FlameThrower\_37 (EB), Jabb\_40 (EB), Jovita\_40 (EB), Kamdara\_37 (EB), Katzastrophic\_38 (EB), Kieran\_37 (EB), LimaBean\_38 (EB), MsUbiquitous\_40 (EB), Rona\_37 (EB), Sharkboy\_38 (EB), TukTuk\_40 (EB),

### Summary by clusters:

There is one cluster represented in this pham: EB

Info for manual annotations of cluster EB:

- Start number 4 was manually annotated 22 times for cluster EB.

### Gene Information:

Gene: Abigail\_38 Start: 25955, Stop: 26224, Start Num: 4

Candidate Starts for Abigail\_38:

(3, 25907), (Start: 4 @25955 has 22 MA's), (7, 25991), (8, 25994), (16, 26147), (17, 26183),

Gene: Albright\_37 Start: 25657, Stop: 25926, Start Num: 4

Candidate Starts for Albright\_37:

(3, 25609), (Start: 4 @25657 has 22 MA's), (7, 25693), (8, 25696), (16, 25849), (17, 25885),

Gene: Arroyo\_40 Start: 26818, Stop: 27228, Start Num: 4

Candidate Starts for Arroyo\_40:

(Start: 4 @26818 has 22 MA's), (9, 26869), (12, 26908), (13, 26944), (14, 26947), (15, 27007), (16, 27151), (17, 27187),

Gene: Avocadoman\_38 Start: 25894, Stop: 26163, Start Num: 4

Candidate Starts for Avocadoman\_38:

(3, 25846), (Start: 4 @25894 has 22 MA's), (7, 25930), (8, 25933), (16, 26086), (17, 26122),

Gene: Bachaco\_37 Start: 27591, Stop: 27851, Start Num: 4

Candidate Starts for Bachaco\_37:

(Start: 4 @27591 has 22 MA's), (5, 27597), (6, 27609), (9, 27636), (16, 27765), (17, 27801), (18, 27834),

Gene: Cashington\_37 Start: 25697, Stop: 25966, Start Num: 4

Candidate Starts for Cashington\_37:

(3, 25649), (Start: 4 @25697 has 22 MA's), (7, 25733), (8, 25736), (16, 25889), (17, 25925),

Gene: Celaena\_37 Start: 27333, Stop: 27593, Start Num: 4

Candidate Starts for Celaena\_37:

(2, 27180), (Start: 4 @27333 has 22 MA's), (5, 27339), (6, 27351), (9, 27378), (16, 27507), (17, 27543), (18, 27576),

Gene: ChiliPepper\_36 Start: 26781, Stop: 27017, Start Num: 4

Candidate Starts for ChiliPepper\_36:

(Start: 4 @26781 has 22 MA's), (5, 26787), (6, 26799), (9, 26826), (11, 26847),

Gene: CroZenni\_39 Start: 26240, Stop: 26623, Start Num: 4

Candidate Starts for CroZenni\_39:

(Start: 4 @26240 has 22 MA's), (7, 26279), (10, 26303), (13, 26339), (14, 26342), (15, 26402), (16, 26546), (17, 26582),

Gene: CupcakePrincess\_40 Start: 26541, Stop: 26822, Start Num: 4

Candidate Starts for CupcakePrincess\_40:

(Start: 4 @26541 has 22 MA's), (9, 26592), (16, 26745), (17, 26781),

Gene: DickRichards\_38 Start: 26679, Stop: 27062, Start Num: 4

Candidate Starts for DickRichards\_38:

(Start: 4 @26679 has 22 MA's), (7, 26718), (10, 26742), (13, 26778), (14, 26781), (15, 26841), (16, 26985), (17, 27021),

Gene: Dismas\_37 Start: 26952, Stop: 27188, Start Num: 4

Candidate Starts for Dismas\_37:

(Start: 4 @26952 has 22 MA's), (5, 26958), (6, 26970), (9, 26997), (11, 27018),

Gene: Doobus\_38 Start: 26061, Stop: 26330, Start Num: 4

Candidate Starts for Doobus\_38:

(3, 26013), (Start: 4 @26061 has 22 MA's), (7, 26097), (8, 26100), (16, 26253), (17, 26289),

Gene: FlameThrower\_37 Start: 26783, Stop: 27043, Start Num: 4

Candidate Starts for FlameThrower\_37:

(Start: 4 @26783 has 22 MA's), (5, 26789), (6, 26801), (9, 26828), (16, 26957), (17, 26993), (18, 27026),

Gene: Jabb\_40 Start: 26541, Stop: 26822, Start Num: 4

Candidate Starts for Jabb\_40:

(Start: 4 @26541 has 22 MA's), (9, 26592), (16, 26745), (17, 26781),

Gene: Jovita\_40 Start: 26556, Stop: 26837, Start Num: 4

Candidate Starts for Jovita\_40:

(Start: 4 @26556 has 22 MA's), (9, 26607), (16, 26760), (17, 26796),

Gene: Kamdara\_37 Start: 26957, Stop: 27193, Start Num: 4

Candidate Starts for Kamdara\_37:

(Start: 4 @26957 has 22 MA's), (5, 26963), (6, 26975), (9, 27002), (11, 27023),

Gene: Katzastrophic\_38 Start: 26912, Stop: 27172, Start Num: 4

Candidate Starts for Katzastrophic\_38:

(2, 26759), (Start: 4 @26912 has 22 MA's), (5, 26918), (6, 26930), (9, 26957), (16, 27086), (17, 27122), (18, 27155),

Gene: Kieran\_37 Start: 26960, Stop: 27196, Start Num: 4

Candidate Starts for Kieran\_37:

(Start: 4 @26960 has 22 MA's), (5, 26966), (6, 26978), (9, 27005), (11, 27026),

Gene: LimaBean\_38 Start: 25833, Stop: 26102, Start Num: 4

Candidate Starts for LimaBean\_38:

(3, 25785), (Start: 4 @25833 has 22 MA's), (7, 25869), (8, 25872), (16, 26025), (17, 26061),

Gene: MsUbiquitous\_40 Start: 26541, Stop: 26822, Start Num: 4

Candidate Starts for MsUbiquitous\_40:

(Start: 4 @26541 has 22 MA's), (9, 26592), (16, 26745), (17, 26781),

Gene: Rona\_37 Start: 26943, Stop: 27179, Start Num: 4

Candidate Starts for Rona\_37:

(Start: 4 @26943 has 22 MA's), (5, 26949), (6, 26961), (9, 26988), (11, 27009),

Gene: Sharkboy\_38 Start: 27042, Stop: 27278, Start Num: 4

Candidate Starts for Sharkboy\_38:

(Start: 4 @27042 has 22 MA's), (5, 27048), (6, 27060), (9, 27087), (11, 27108),

Gene: TukTuk\_40 Start: 26501, Stop: 26797, Start Num: 4

Candidate Starts for TukTuk\_40:

(1, 26327), (Start: 4 @26501 has 22 MA's), (7, 26540), (10, 26564), (13, 26600), (14, 26603), (16, 26720), (17, 26756),