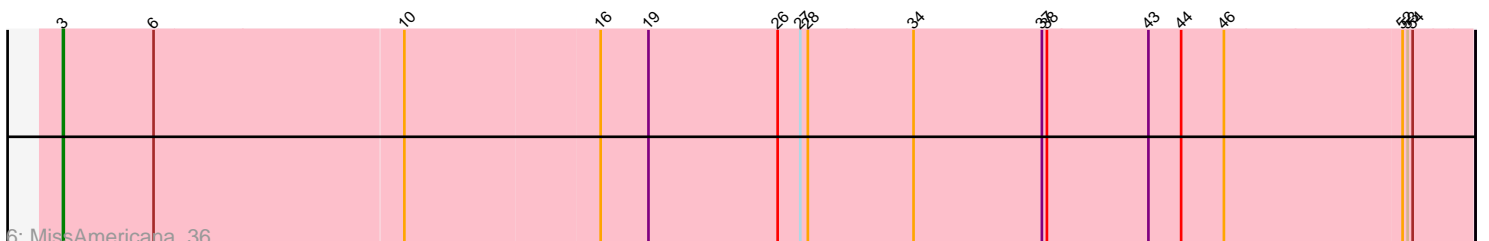
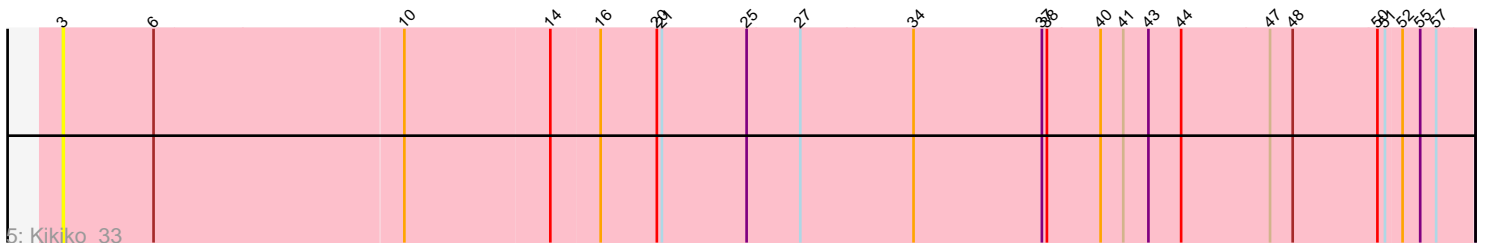
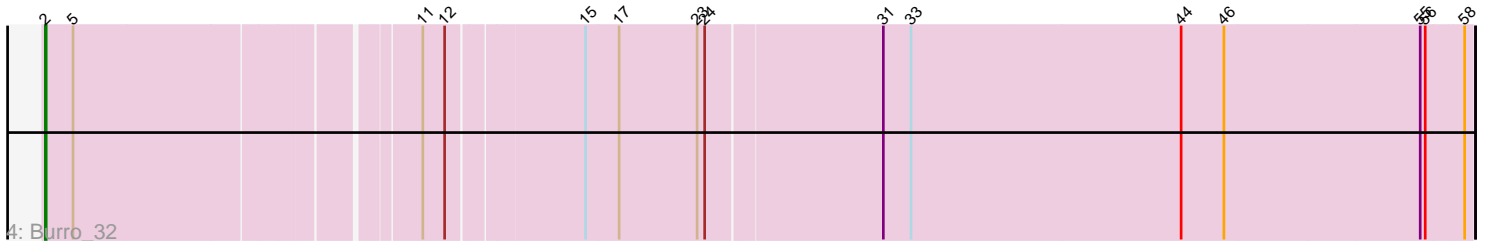
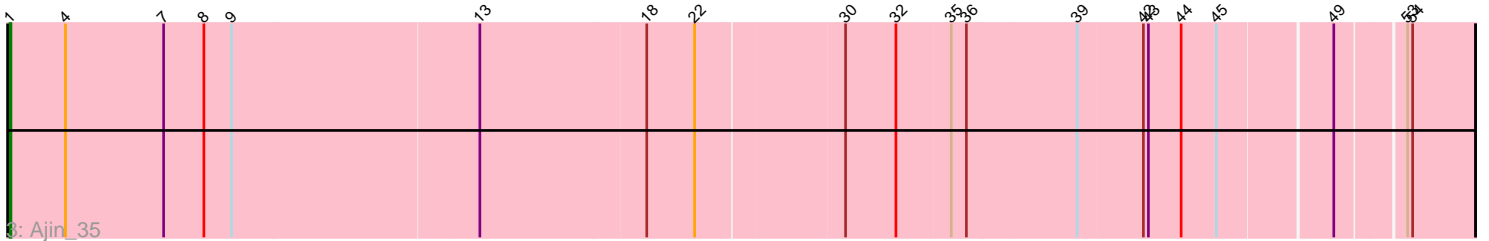
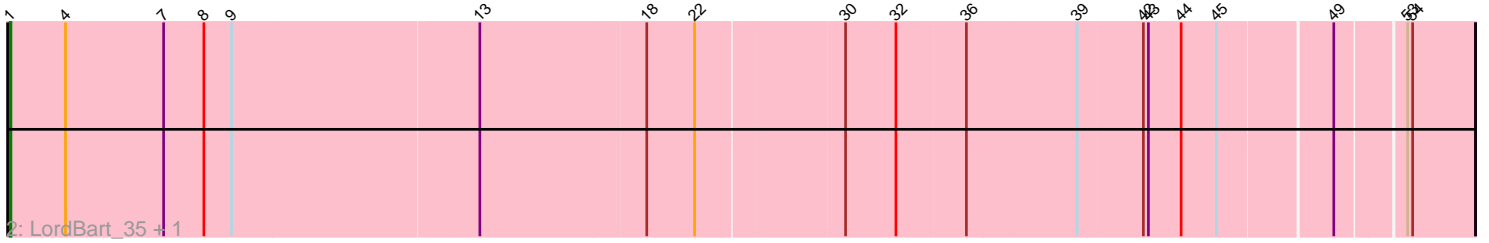
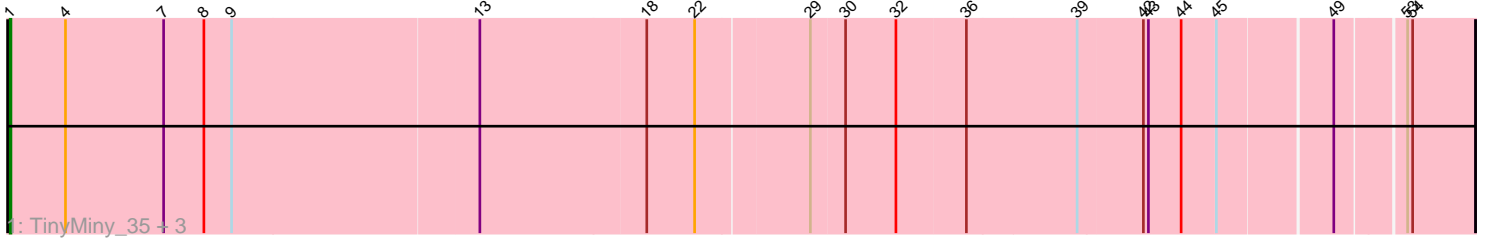


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 299032 Report

This analysis was run 06/08/26 on database version 649.

Pham number 299032 has 10 members, 1 are drafts.

Phages represented in each track:

- Track 1 : TinyMiny\_35, Sparcetus\_35, Kors\_35, RikSengupta\_35
- Track 2 : LordBart\_35, Bramble\_35
- Track 3 : Ajin\_35
- Track 4 : Burro\_32
- Track 5 : Kikiko\_33
- Track 6 : MissAmericana\_36

### ***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 7 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ajin\_35, Bramble\_35, Kors\_35, LordBart\_35, RikSengupta\_35, Sparcetus\_35, TinyMiny\_35,

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

- 

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

- Burro\_32, Kikiko\_33, MissAmericana\_36,

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

Start 1:

- Found in 7 of 10 ( 70.0% ) of genes in pham
- Manual Annotations of this start: 7 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ajin\_35 (EF), Bramble\_35 (EF), Kors\_35 (EF), LordBart\_35 (EF), RikSengupta\_35 (EF), Sparcetus\_35 (EF), TinyMiny\_35 (EF),

Start 2:

- Found in 1 of 10 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 1 of 9

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Burro\_32 (EM1),

Start 3:

- Found in 2 of 10 ( 20.0% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kikiko\_33 (EM2), MissAmericana\_36 (EM2),

### **Summary by clusters:**

There are 3 clusters represented in this pham: EF, EM1, EM2,

Info for manual annotations of cluster EF:

- Start number 1 was manually annotated 7 times for cluster EF.

Info for manual annotations of cluster EM1:

- Start number 2 was manually annotated 1 time for cluster EM1.

Info for manual annotations of cluster EM2:

- Start number 3 was manually annotated 1 time for cluster EM2.

### **Gene Information:**

Gene: Ajin\_35 Start: 21500, Stop: 23185, Start Num: 1

Candidate Starts for Ajin\_35:

(Start: 1 @21500 has 7 MA's), (4, 21566), (7, 21683), (8, 21731), (9, 21764), (13, 22052), (18, 22247), (22, 22304), (30, 22472), (32, 22532), (35, 22595), (36, 22613), (39, 22742), (42, 22817), (43, 22823), (44, 22862), (45, 22901), (49, 23030), (53, 23105), (54, 23111),

Gene: Bramble\_35 Start: 21466, Stop: 23151, Start Num: 1

Candidate Starts for Bramble\_35:

(Start: 1 @21466 has 7 MA's), (4, 21532), (7, 21649), (8, 21697), (9, 21730), (13, 22018), (18, 22213), (22, 22270), (30, 22438), (32, 22498), (36, 22579), (39, 22708), (42, 22783), (43, 22789), (44, 22828), (45, 22867), (49, 22996), (53, 23071), (54, 23077),

Gene: Burro\_32 Start: 37650, Stop: 39254, Start Num: 2

Candidate Starts for Burro\_32:

(Start: 2 @37650 has 1 MA's), (5, 37683), (11, 38058), (12, 38082), (15, 38232), (17, 38271), (23, 38361), (24, 38367), (31, 38568), (33, 38601), (44, 38916), (46, 38967), (55, 39198), (56, 39204), (58, 39246),

Gene: Kikiko\_33 Start: 36913, Stop: 38559, Start Num: 3

Candidate Starts for Kikiko\_33:

(Start: 3 @36913 has 1 MA's), (6, 37021), (10, 37312), (14, 37483), (16, 37540), (20, 37606), (21, 37612), (25, 37711), (27, 37774), (34, 37906), (37, 38059), (38, 38065), (40, 38128), (41, 38155), (43, 38185), (44, 38224), (47, 38329), (48, 38356), (50, 38455), (51, 38464), (52, 38482), (55, 38503), (57, 38521),

Gene: Kors\_35 Start: 21546, Stop: 23231, Start Num: 1

Candidate Starts for Kors\_35:

(Start: 1 @21546 has 7 MA's), (4, 21612), (7, 21729), (8, 21777), (9, 21810), (13, 22098), (18, 22293), (22, 22350), (29, 22479), (30, 22518), (32, 22578), (36, 22659), (39, 22788), (42, 22863), (43, 22869), (44, 22908), (45, 22947), (49, 23076), (53, 23151), (54, 23157),

Gene: LordBart\_35 Start: 21462, Stop: 23147, Start Num: 1

Candidate Starts for LordBart\_35:

(Start: 1 @21462 has 7 MA's), (4, 21528), (7, 21645), (8, 21693), (9, 21726), (13, 22014), (18, 22209), (22, 22266), (30, 22434), (32, 22494), (36, 22575), (39, 22704), (42, 22779), (43, 22785), (44, 22824), (45, 22863), (49, 22992), (53, 23067), (54, 23073),

Gene: MissAmericana\_36 Start: 37402, Stop: 39051, Start Num: 3

Candidate Starts for MissAmericana\_36:

(Start: 3 @37402 has 1 MA's), (6, 37510), (10, 37801), (16, 38029), (19, 38086), (26, 38239), (27, 38266), (28, 38275), (34, 38398), (37, 38551), (38, 38557), (43, 38677), (44, 38716), (46, 38767), (52, 38974), (53, 38980), (54, 38986),

Gene: RikSengupta\_35 Start: 21583, Stop: 23268, Start Num: 1

Candidate Starts for RikSengupta\_35:

(Start: 1 @21583 has 7 MA's), (4, 21649), (7, 21766), (8, 21814), (9, 21847), (13, 22135), (18, 22330), (22, 22387), (29, 22516), (30, 22555), (32, 22615), (36, 22696), (39, 22825), (42, 22900), (43, 22906), (44, 22945), (45, 22984), (49, 23113), (53, 23188), (54, 23194),

Gene: Sparcetus\_35 Start: 21462, Stop: 23147, Start Num: 1

Candidate Starts for Sparcetus\_35:

(Start: 1 @21462 has 7 MA's), (4, 21528), (7, 21645), (8, 21693), (9, 21726), (13, 22014), (18, 22209), (22, 22266), (29, 22395), (30, 22434), (32, 22494), (36, 22575), (39, 22704), (42, 22779), (43, 22785), (44, 22824), (45, 22863), (49, 22992), (53, 23067), (54, 23073),

Gene: TinyMiny\_35 Start: 21481, Stop: 23166, Start Num: 1

Candidate Starts for TinyMiny\_35:

(Start: 1 @21481 has 7 MA's), (4, 21547), (7, 21664), (8, 21712), (9, 21745), (13, 22033), (18, 22228), (22, 22285), (29, 22414), (30, 22453), (32, 22513), (36, 22594), (39, 22723), (42, 22798), (43, 22804), (44, 22843), (45, 22882), (49, 23011), (53, 23086), (54, 23092),