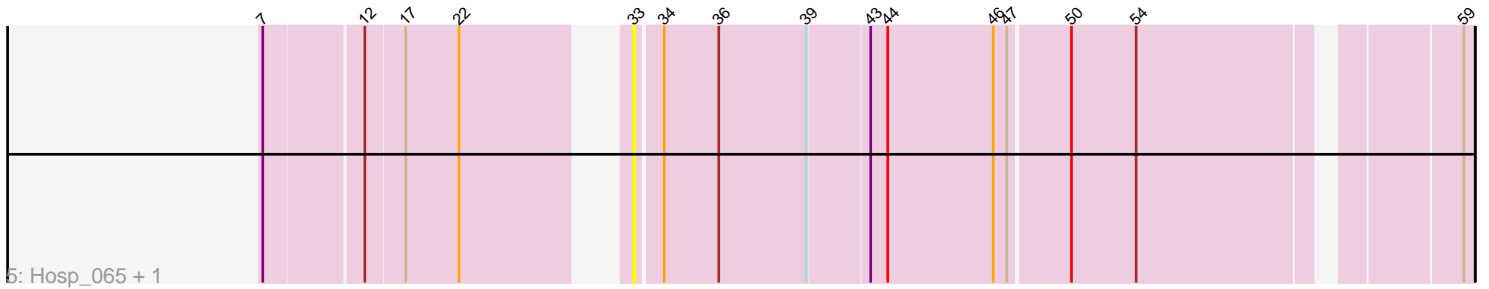
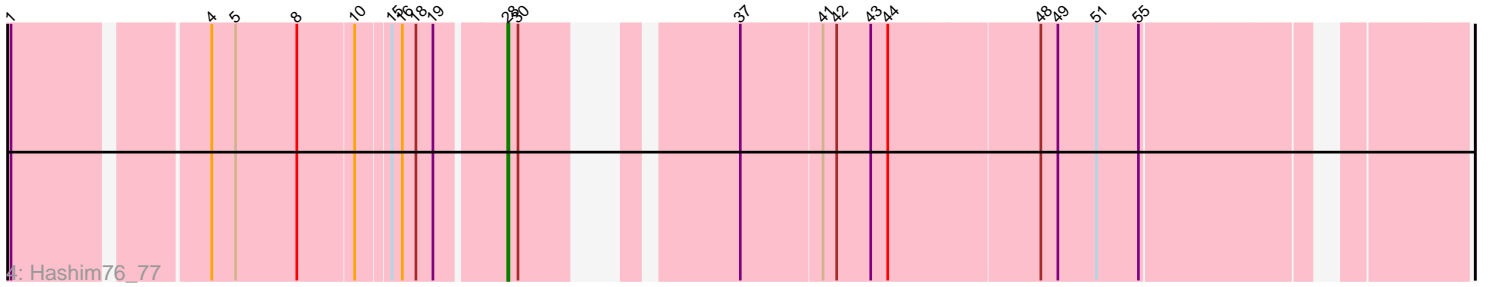
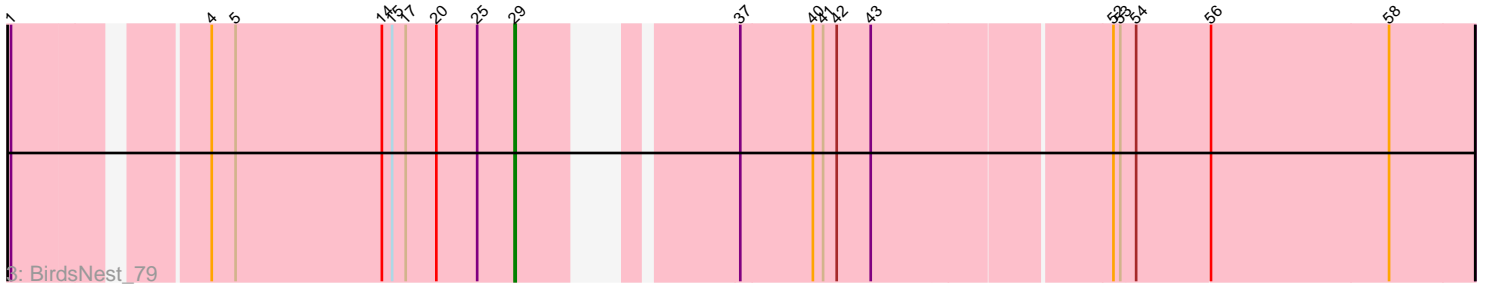
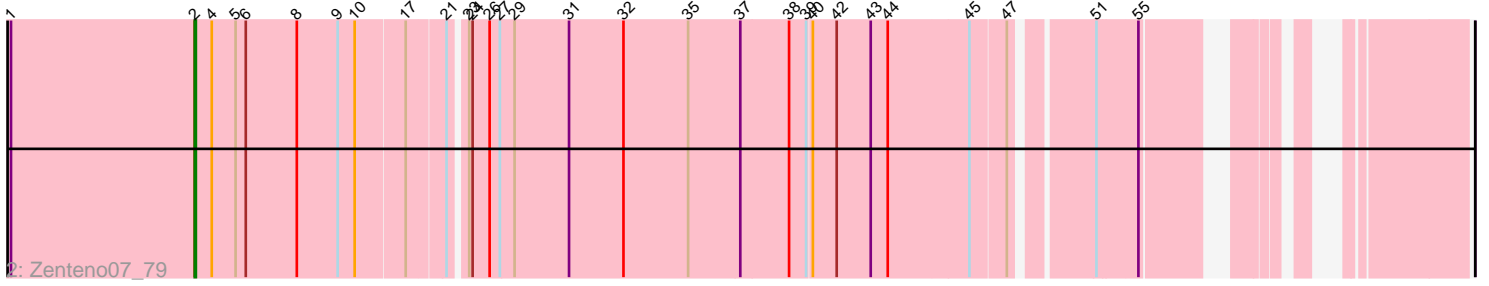
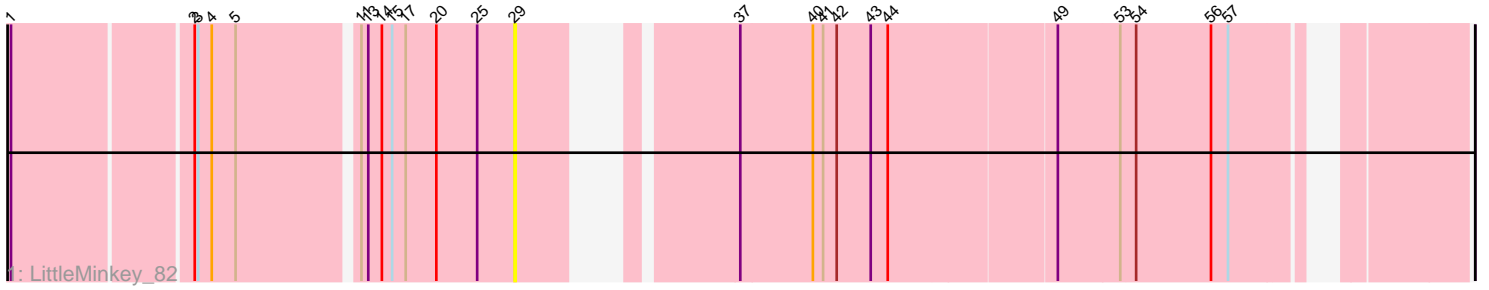


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 297376 Report

This analysis was run 04/25/26 on database version 644.

Pham number 297376 has 6 members, 3 are drafts.

Phages represented in each track:

- Track 1 : LittleMinkey\_82
- Track 2 : Zenteno07\_79
- Track 3 : BirdsNest\_79
- Track 4 : Hashim76\_77
- Track 5 : Hosp\_065, Jolie1\_067

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

The start number called the most often in the published annotations is 28, it was called in 1 of the 3 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Hashim76\_77,

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

- 

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

- BirdsNest\_79, Hosp\_065, Jolie1\_067, LittleMinkey\_82, Zenteno07\_79,

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

Start 2:

- Found in 2 of 6 ( 33.3% ) of genes in pham
- Manual Annotations of this start: 1 of 3
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Zenteno07\_79 (B13),

Start 28:

- Found in 1 of 6 ( 16.7% ) of genes in pham
- Manual Annotations of this start: 1 of 3
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hashim76\_77 (B13),

Start 29:

- Found in 3 of 6 ( 50.0% ) of genes in pham
- Manual Annotations of this start: 1 of 3
- Called 66.7% of time when present
- Phage (with cluster) where this start called: BirdsNest\_79 (B13), LittleMinkey\_82 (B13),

Start 33:

- Found in 2 of 6 ( 33.3% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hosp\_065 (B6), Jolie1\_067 (B6),

**Summary by clusters:**

There are 2 clusters represented in this pham: B6, B13,

Info for manual annotations of cluster B13:

- Start number 2 was manually annotated 1 time for cluster B13.
- Start number 28 was manually annotated 1 time for cluster B13.
- Start number 29 was manually annotated 1 time for cluster B13.

**Gene Information:**

Gene: BirdsNest\_79 Start: 60884, Stop: 61648, Start Num: 29

Candidate Starts for BirdsNest\_79:

(1, 60470), (4, 60617), (5, 60638), (14, 60767), (15, 60776), (17, 60788), (20, 60815), (25, 60851), (Start: 29 @60884 has 1 MA's), (37, 61022), (40, 61085), (41, 61094), (42, 61106), (43, 61136), (52, 61337), (53, 61343), (54, 61355), (56, 61418), (58, 61574),

Gene: Hashim76\_77 Start: 60745, Stop: 61467, Start Num: 28

Candidate Starts for Hashim76\_77:

(1, 60346), (4, 60502), (5, 60523), (8, 60577), (10, 60625), (15, 60652), (16, 60661), (18, 60673), (19, 60688), (Start: 28 @60745 has 1 MA's), (30, 60754), (37, 60886), (41, 60955), (42, 60967), (43, 60997), (44, 61012), (48, 61141), (49, 61156), (51, 61189), (55, 61222),

Gene: Hosp\_065 Start: 56539, Stop: 57216, Start Num: 33

Candidate Starts for Hosp\_065:

(7, 56272), (12, 56353), (17, 56386), (22, 56431), (33, 56539), (34, 56560), (36, 56608), (39, 56683), (43, 56731), (44, 56746), (46, 56839), (47, 56851), (50, 56902), (54, 56959), (59, 57208),

Gene: Jolie1\_067 Start: 58667, Stop: 59344, Start Num: 33

Candidate Starts for Jolie1\_067:

(7, 58400), (12, 58481), (17, 58514), (22, 58559), (33, 58667), (34, 58688), (36, 58736), (39, 58811), (43, 58859), (44, 58874), (46, 58967), (47, 58979), (50, 59030), (54, 59087), (59, 59336),

Gene: LittleMinkey\_82 Start: 60638, Stop: 61354, Start Num: 29

Candidate Starts for LittleMinkey\_82:

(1, 60218), (Start: 2 @60368 has 1 MA's), (3, 60371), (4, 60383), (5, 60404), (11, 60503), (13, 60509), (14, 60521), (15, 60530), (17, 60542), (20, 60569), (25, 60605), (Start: 29 @60638 has 1 MA's), (37,

60773), (40, 60836), (41, 60845), (42, 60857), (43, 60887), (44, 60902), (49, 61043), (53, 61097), (54, 61109), (56, 61175), (57, 61190),

Gene: Zenteno07\_79 Start: 60479, Stop: 61459, Start Num: 2

Candidate Starts for Zenteno07\_79:

(1, 60317), (Start: 2 @60479 has 1 MA's), (4, 60494), (5, 60515), (6, 60524), (8, 60569), (9, 60605), (10, 60620), (17, 60662), (21, 60692), (23, 60704), (24, 60707), (26, 60722), (27, 60731), (Start: 29 @60743 has 1 MA's), (31, 60791), (32, 60839), (35, 60896), (37, 60941), (38, 60983), (39, 60998), (40, 61001), (42, 61022), (43, 61052), (44, 61067), (45, 61136), (47, 61166), (51, 61226), (55, 61259),