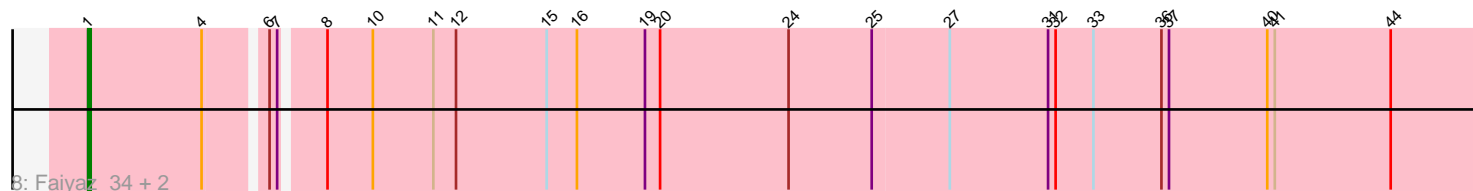
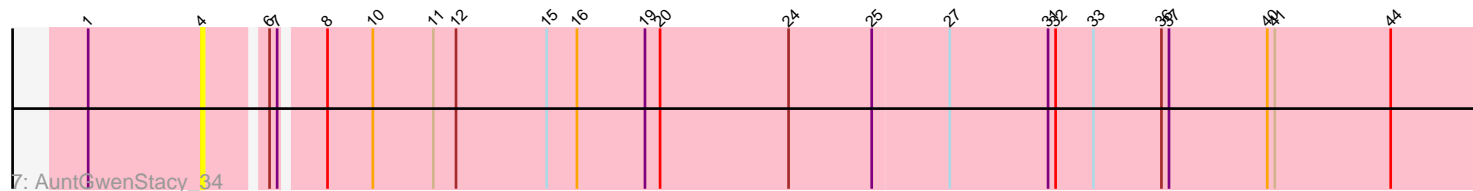
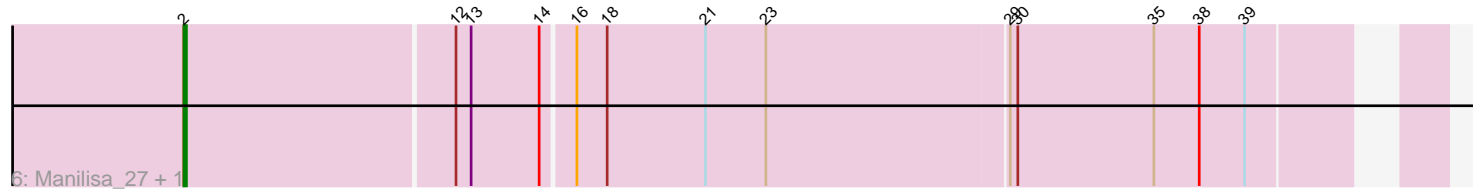
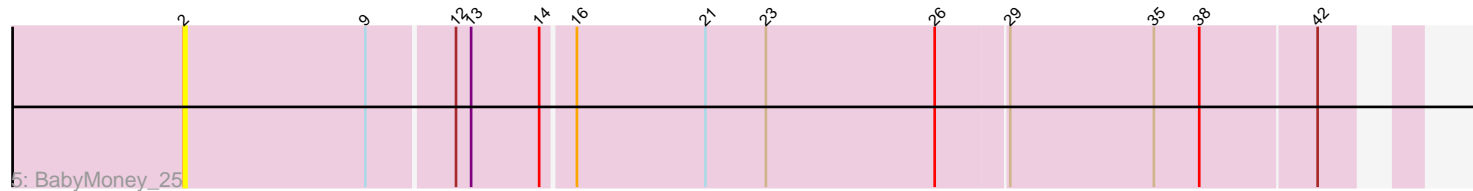
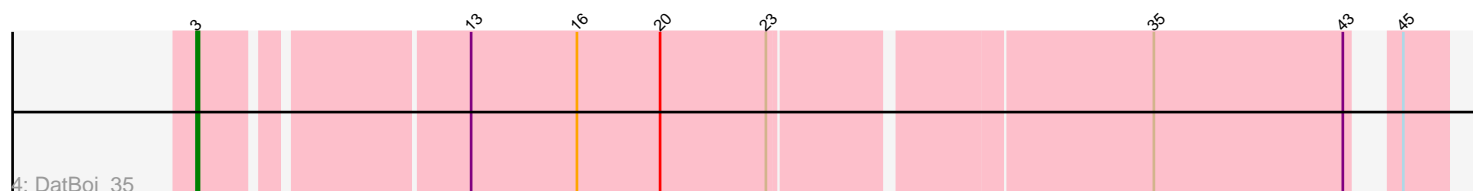
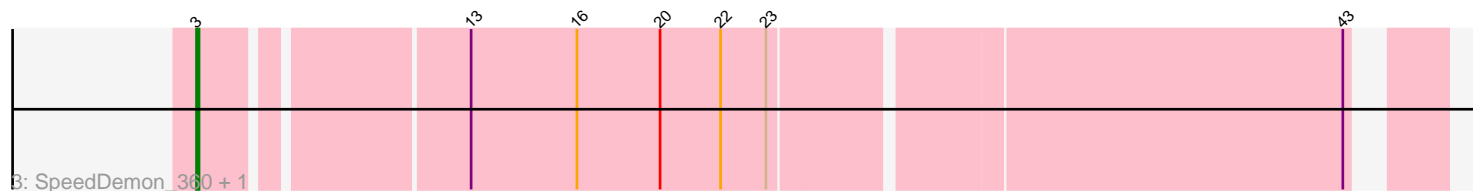
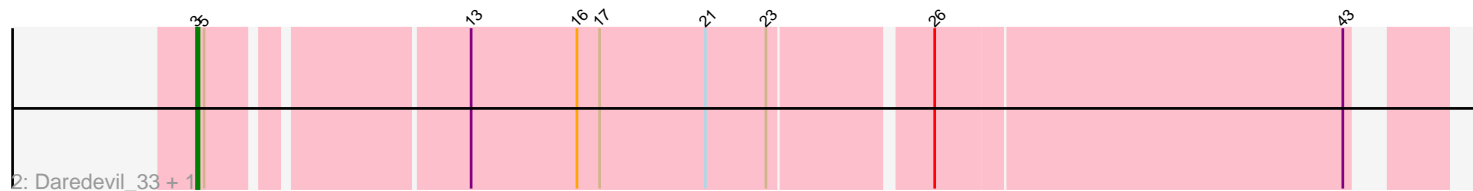
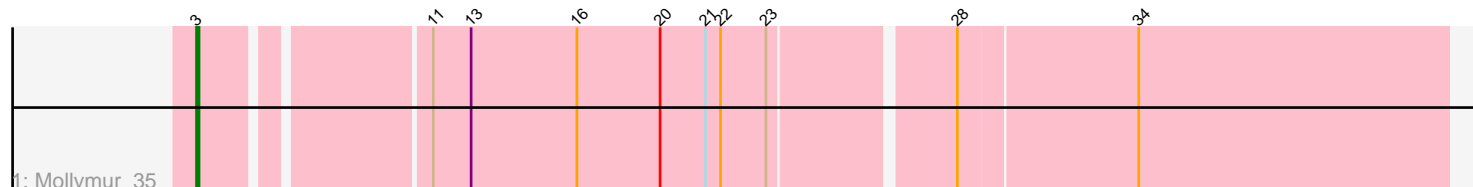


# Pham 281028



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 281028 Report

This analysis was run 02/07/26 on database version 634.

Pham number 281028 has 13 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Mollymur\_35
- Track 2 : Daredevil\_33, Towmatter\_32
- Track 3 : SpeedDemon\_360, Bantam\_34
- Track 4 : DatBoi\_35
- Track 5 : BabyMoney\_25
- Track 6 : Manilisa\_27, Phishy\_26
- Track 7 : AuntGwenStacy\_34
- Track 8 : Faiyaz\_34, Hilltopfarm\_34, Typha\_34

### ***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 6 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bantam\_34, Daredevil\_33, DatBoi\_35, Mollymur\_35, SpeedDemon\_360, Towmatter\_32,

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

- 

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

- AuntGwenStacy\_34, BabyMoney\_25, Faiyaz\_34, Hilltopfarm\_34, Manilisa\_27, Phishy\_26, Typha\_34,

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

Start 1:

- Found in 4 of 13 ( 30.8% ) of genes in pham
- Manual Annotations of this start: 3 of 10
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Faiyaz\_34 (Y), Hilltopfarm\_34 (Y), Typha\_34 (Y),

#### Start 2:

- Found in 3 of 13 ( 23.1% ) 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: BabyMoney\_25 (DT), Manilisa\_27 (DT), Phishy\_26 (DT),

#### Start 3:

- Found in 6 of 13 ( 46.2% ) of genes in pham
- Manual Annotations of this start: 6 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bantam\_34 (DL), Daredevil\_33 (DL), DatBoi\_35 (DL), Mollymur\_35 (DL), SpeedDemon\_360 (DL), Towmatter\_32 (DL),

#### Start 4:

- Found in 4 of 13 ( 30.8% ) of genes in pham
- No Manual Annotations of this start.
- Called 25.0% of time when present
- Phage (with cluster) where this start called: AuntGwenStacy\_34 (Y),

### Summary by clusters:

There are 3 clusters represented in this pham: Y, DL, DT,

Info for manual annotations of cluster DL:

- Start number 3 was manually annotated 6 times for cluster DL.

Info for manual annotations of cluster DT:

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

Info for manual annotations of cluster Y:

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

### Gene Information:

Gene: AuntGwenStacy\_34 Start: 30733, Stop: 31254, Start Num: 4

Candidate Starts for AuntGwenStacy\_34:

(Start: 1 @30688 has 3 MA's), (4, 30733), (6, 30754), (7, 30757), (8, 30772), (10, 30790), (11, 30814), (12, 30823), (15, 30859), (16, 30871), (19, 30898), (20, 30904), (24, 30955), (25, 30988), (27, 31018), (31, 31057), (32, 31060), (33, 31075), (36, 31102), (37, 31105), (40, 31144), (41, 31147), (44, 31192),

Gene: BabyMoney\_25 Start: 21466, Stop: 21930, Start Num: 2

Candidate Starts for BabyMoney\_25:

(Start: 2 @21466 has 1 MA's), (9, 21538), (12, 21571), (13, 21577), (14, 21604), (16, 21616), (21, 21667), (23, 21691), (26, 21757), (29, 21784), (35, 21841), (38, 21859), (42, 21904),

Gene: Bantam\_34 Start: 30999, Stop: 31454, Start Num: 3

Candidate Starts for Bantam\_34:

(Start: 3 @30999 has 6 MA's), (13, 31095), (16, 31137), (20, 31170), (22, 31194), (23, 31212), (43, 31428),

Gene: Daredevil\_33 Start: 29513, Stop: 29968, Start Num: 3

Candidate Starts for Daredevil\_33:

(Start: 3 @29513 has 6 MA's), (5, 29516), (13, 29609), (16, 29651), (17, 29660), (21, 29702), (23, 29726), (26, 29783), (43, 29942),

Gene: DatBoi\_35 Start: 31729, Stop: 32184, Start Num: 3

Candidate Starts for DatBoi\_35:

(Start: 3 @31729 has 6 MA's), (13, 31825), (16, 31867), (20, 31900), (23, 31942), (35, 32083), (43, 32158), (45, 32167),

Gene: Faiyaz\_34 Start: 30688, Stop: 31254, Start Num: 1

Candidate Starts for Faiyaz\_34:

(Start: 1 @30688 has 3 MA's), (4, 30733), (6, 30754), (7, 30757), (8, 30772), (10, 30790), (11, 30814), (12, 30823), (15, 30859), (16, 30871), (19, 30898), (20, 30904), (24, 30955), (25, 30988), (27, 31018), (31, 31057), (32, 31060), (33, 31075), (36, 31102), (37, 31105), (40, 31144), (41, 31147), (44, 31192),

Gene: Hilltopfarm\_34 Start: 30718, Stop: 31284, Start Num: 1

Candidate Starts for Hilltopfarm\_34:

(Start: 1 @30718 has 3 MA's), (4, 30763), (6, 30784), (7, 30787), (8, 30802), (10, 30820), (11, 30844), (12, 30853), (15, 30889), (16, 30901), (19, 30928), (20, 30934), (24, 30985), (25, 31018), (27, 31048), (31, 31087), (32, 31090), (33, 31105), (36, 31132), (37, 31135), (40, 31174), (41, 31177), (44, 31222),

Gene: Manilisa\_27 Start: 22550, Stop: 23020, Start Num: 2

Candidate Starts for Manilisa\_27:

(Start: 2 @22550 has 1 MA's), (12, 22655), (13, 22661), (14, 22688), (16, 22700), (18, 22712), (21, 22751), (23, 22775), (29, 22868), (30, 22871), (35, 22925), (38, 22943), (39, 22961),

Gene: Mollymur\_35 Start: 32198, Stop: 32668, Start Num: 3

Candidate Starts for Mollymur\_35:

(Start: 3 @32198 has 6 MA's), (11, 32279), (13, 32294), (16, 32336), (20, 32369), (21, 32387), (22, 32393), (23, 32411), (28, 32477), (34, 32546),

Gene: Phishy\_26 Start: 22279, Stop: 22749, Start Num: 2

Candidate Starts for Phishy\_26:

(Start: 2 @22279 has 1 MA's), (12, 22384), (13, 22390), (14, 22417), (16, 22429), (18, 22441), (21, 22480), (23, 22504), (29, 22597), (30, 22600), (35, 22654), (38, 22672), (39, 22690),

Gene: SpeedDemon\_360 Start: 32848, Stop: 33303, Start Num: 3

Candidate Starts for SpeedDemon\_360:

(Start: 3 @32848 has 6 MA's), (13, 32944), (16, 32986), (20, 33019), (22, 33043), (23, 33061), (43, 33277),

Gene: Towmatter\_32 Start: 29350, Stop: 29805, Start Num: 3

Candidate Starts for Towmatter\_32:

(Start: 3 @29350 has 6 MA's), (5, 29353), (13, 29446), (16, 29488), (17, 29497), (21, 29539), (23, 29563), (26, 29620), (43, 29779),

Gene: Typha\_34 Start: 30688, Stop: 31254, Start Num: 1

Candidate Starts for Typha\_34:

(Start: 1 @30688 has 3 MA's), (4, 30733), (6, 30754), (7, 30757), (8, 30772), (10, 30790), (11, 30814), (12, 30823), (15, 30859), (16, 30871), (19, 30898), (20, 30904), (24, 30955), (25, 30988), (27, 31018), (31, 31057), (32, 31060), (33, 31075), (36, 31102), (37, 31105), (40, 31144), (41, 31147), (44, 31192),