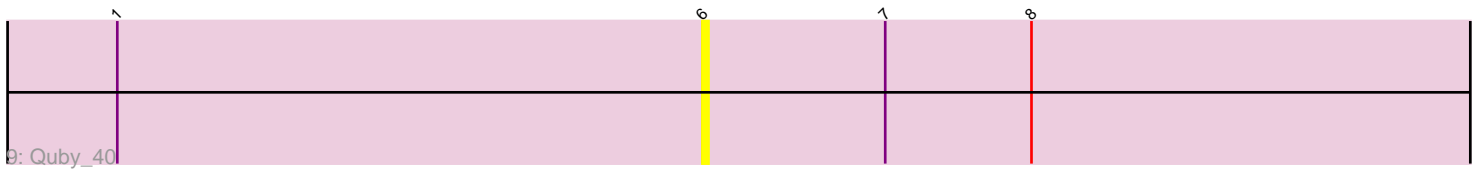
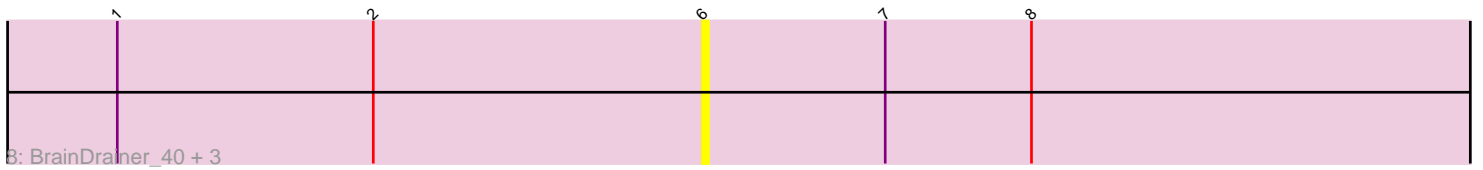
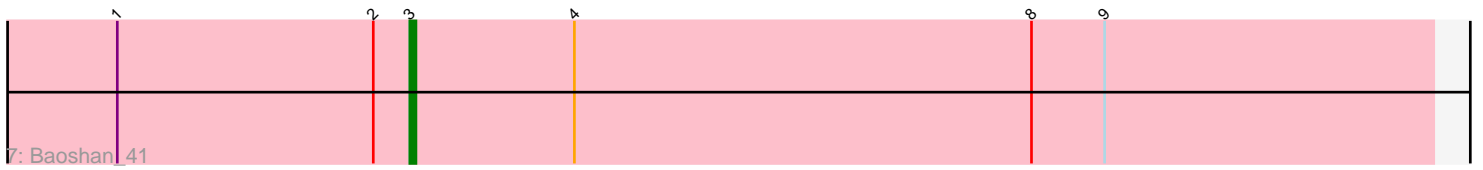
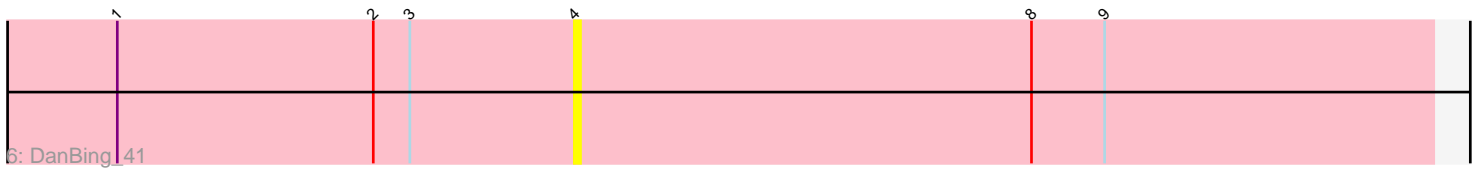
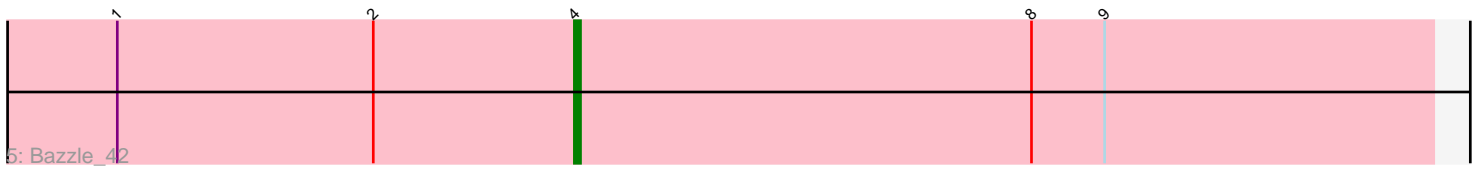
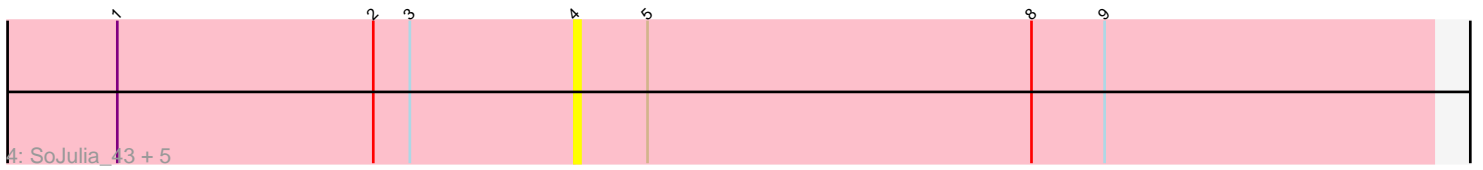
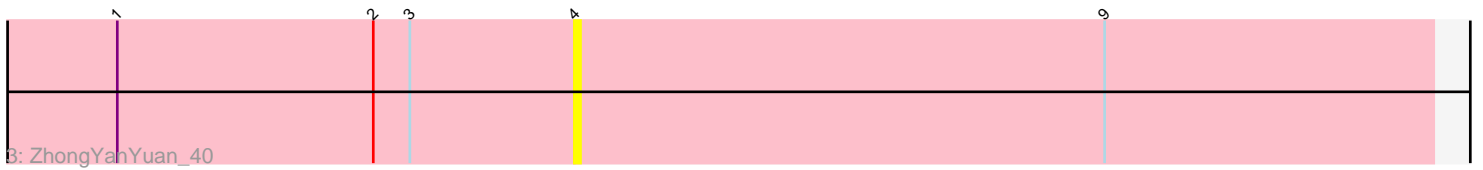
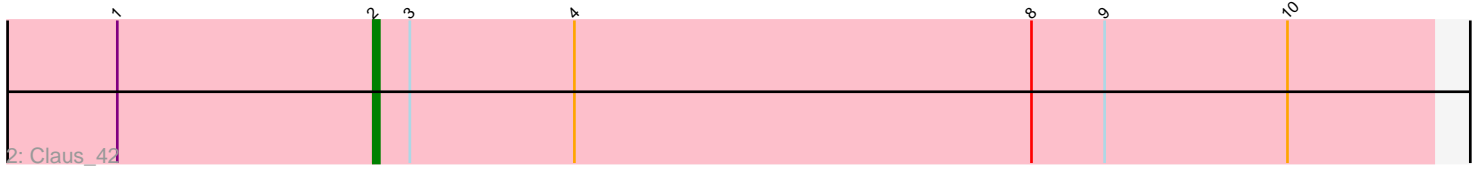
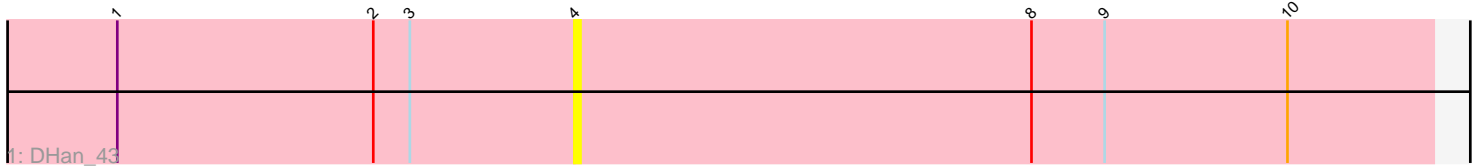


Pham 303733



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 303733 Report

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

Pham number 303733 has 17 members, 14 are drafts.

Phages represented in each track:

- Track 1 : DHan\_43
- Track 2 : Claus\_42
- Track 3 : ZhongYanYuan\_40
- Track 4 : SoJulia\_43, OverPar\_43, Soap141\_42, Sarshaun\_42, Lynnae\_42, Hafay\_42
- Track 5 : Bazzle\_42
- Track 6 : DanBing\_41
- Track 7 : Baoshan\_41
- Track 8 : BrainDrainer\_40, FarmResident\_40, Douzhi\_39, PYPDinur\_39
- Track 9 : Quby\_40

### ***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 1 of the 3 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Baoshan\_41,

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

- Claus\_42, DHan\_43, DanBing\_41, Hafay\_42, Lynnae\_42, OverPar\_43, Sarshaun\_42, SoJulia\_43, Soap141\_42, ZhongYanYuan\_40,

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

- Bazzle\_42, BrainDrainer\_40, Douzhi\_39, FarmResident\_40, PYPDinur\_39, Quby\_40,

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

Start 2:

- Found in 16 of 17 ( 94.1% ) of genes in pham
- Manual Annotations of this start: 1 of 3
- Called 6.2% of time when present
- Phage (with cluster) where this start called: Claus\_42 (L2),

Start 3:

- Found in 11 of 17 ( 64.7% ) of genes in pham
- Manual Annotations of this start: 1 of 3
- Called 9.1% of time when present
- Phage (with cluster) where this start called: Baoshan\_41 (L2),

Start 4:

- Found in 12 of 17 ( 70.6% ) of genes in pham
- Manual Annotations of this start: 1 of 3
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Bazzle\_42 (L2), DHan\_43 (L2), DanBing\_41 (L2), Hafay\_42 (L2), Lynnae\_42 (L2), OverPar\_43 (L2), Sarshaun\_42 (L2), SoJulia\_43 (L2), Soap141\_42 (L2), ZhongYanYuan\_40 (L2),

Start 6:

- Found in 5 of 17 ( 29.4% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BrainDrainer\_40 (L4), Douzhi\_39 (L4), FarmResident\_40 (L4), PYPDinur\_39 (L4), Quby\_40 (L4),

**Summary by clusters:**

There are 2 clusters represented in this pham: L4, L2,

Info for manual annotations of cluster L2:

- Start number 2 was manually annotated 1 time for cluster L2.
- Start number 3 was manually annotated 1 time for cluster L2.
- Start number 4 was manually annotated 1 time for cluster L2.

**Gene Information:**

Gene: Baoshan\_41 Start: 34603, Stop: 34770, Start Num: 3

Candidate Starts for Baoshan\_41:

(1, 34555), (Start: 2 @34597 has 1 MA's), (Start: 3 @34603 has 1 MA's), (Start: 4 @34630 has 1 MA's), (8, 34705), (9, 34717),

Gene: Bazzle\_42 Start: 35005, Stop: 35145, Start Num: 4

Candidate Starts for Bazzle\_42:

(1, 34930), (Start: 2 @34972 has 1 MA's), (Start: 4 @35005 has 1 MA's), (8, 35080), (9, 35092),

Gene: BrainDrainer\_40 Start: 33711, Stop: 33842, Start Num: 6

Candidate Starts for BrainDrainer\_40:

(1, 33615), (Start: 2 @33657 has 1 MA's), (6, 33711), (7, 33741), (8, 33765),

Gene: Claus\_42 Start: 34755, Stop: 34928, Start Num: 2

Candidate Starts for Claus\_42:

(1, 34713), (Start: 2 @34755 has 1 MA's), (Start: 3 @34761 has 1 MA's), (Start: 4 @34788 has 1 MA's), (8, 34863), (9, 34875), (10, 34905),

Gene: DHan\_43 Start: 34729, Stop: 34869, Start Num: 4

Candidate Starts for DHan\_43:

(1, 34654), (Start: 2 @34696 has 1 MA's), (Start: 3 @34702 has 1 MA's), (Start: 4 @34729 has 1 MA's), (8, 34804), (9, 34816), (10, 34846),

Gene: DanBing\_41 Start: 34621, Stop: 34761, Start Num: 4

Candidate Starts for DanBing\_41:

(1, 34546), (Start: 2 @34588 has 1 MA's), (Start: 3 @34594 has 1 MA's), (Start: 4 @34621 has 1 MA's), (8, 34696), (9, 34708),

Gene: Douzhi\_39 Start: 33572, Stop: 33703, Start Num: 6

Candidate Starts for Douzhi\_39:

(1, 33476), (Start: 2 @33518 has 1 MA's), (6, 33572), (7, 33602), (8, 33626),

Gene: FarmResident\_40 Start: 33510, Stop: 33641, Start Num: 6

Candidate Starts for FarmResident\_40:

(1, 33414), (Start: 2 @33456 has 1 MA's), (6, 33510), (7, 33540), (8, 33564),

Gene: Hafay\_42 Start: 34803, Stop: 34943, Start Num: 4

Candidate Starts for Hafay\_42:

(1, 34728), (Start: 2 @34770 has 1 MA's), (Start: 3 @34776 has 1 MA's), (Start: 4 @34803 has 1 MA's), (5, 34815), (8, 34878), (9, 34890),

Gene: Lynnae\_42 Start: 34758, Stop: 34898, Start Num: 4

Candidate Starts for Lynnae\_42:

(1, 34683), (Start: 2 @34725 has 1 MA's), (Start: 3 @34731 has 1 MA's), (Start: 4 @34758 has 1 MA's), (5, 34770), (8, 34833), (9, 34845),

Gene: OverPar\_43 Start: 34801, Stop: 34941, Start Num: 4

Candidate Starts for OverPar\_43:

(1, 34726), (Start: 2 @34768 has 1 MA's), (Start: 3 @34774 has 1 MA's), (Start: 4 @34801 has 1 MA's), (5, 34813), (8, 34876), (9, 34888),

Gene: PYPDinur\_39 Start: 33572, Stop: 33703, Start Num: 6

Candidate Starts for PYPDinur\_39:

(1, 33476), (Start: 2 @33518 has 1 MA's), (6, 33572), (7, 33602), (8, 33626),

Gene: Quby\_40 Start: 33466, Stop: 33597, Start Num: 6

Candidate Starts for Quby\_40:

(1, 33370), (6, 33466), (7, 33496), (8, 33520),

Gene: Sarshaun\_42 Start: 34803, Stop: 34943, Start Num: 4

Candidate Starts for Sarshaun\_42:

(1, 34728), (Start: 2 @34770 has 1 MA's), (Start: 3 @34776 has 1 MA's), (Start: 4 @34803 has 1 MA's), (5, 34815), (8, 34878), (9, 34890),

Gene: SoJulia\_43 Start: 35029, Stop: 35169, Start Num: 4

Candidate Starts for SoJulia\_43:

(1, 34954), (Start: 2 @34996 has 1 MA's), (Start: 3 @35002 has 1 MA's), (Start: 4 @35029 has 1 MA's), (5, 35041), (8, 35104), (9, 35116),

Gene: Soap141\_42 Start: 34803, Stop: 34943, Start Num: 4

Candidate Starts for Soap141\_42:

(1, 34728), (Start: 2 @34770 has 1 MA's), (Start: 3 @34776 has 1 MA's), (Start: 4 @34803 has 1 MA's), (5, 34815), (8, 34878), (9, 34890),

Gene: ZhongYanYuan\_40 Start: 34630, Stop: 34770, Start Num: 4

Candidate Starts for ZhongYanYuan\_40:

(1, 34555), (Start: 2 @34597 has 1 MA's), (Start: 3 @34603 has 1 MA's), (Start: 4 @34630 has 1 MA's), (9, 34717),