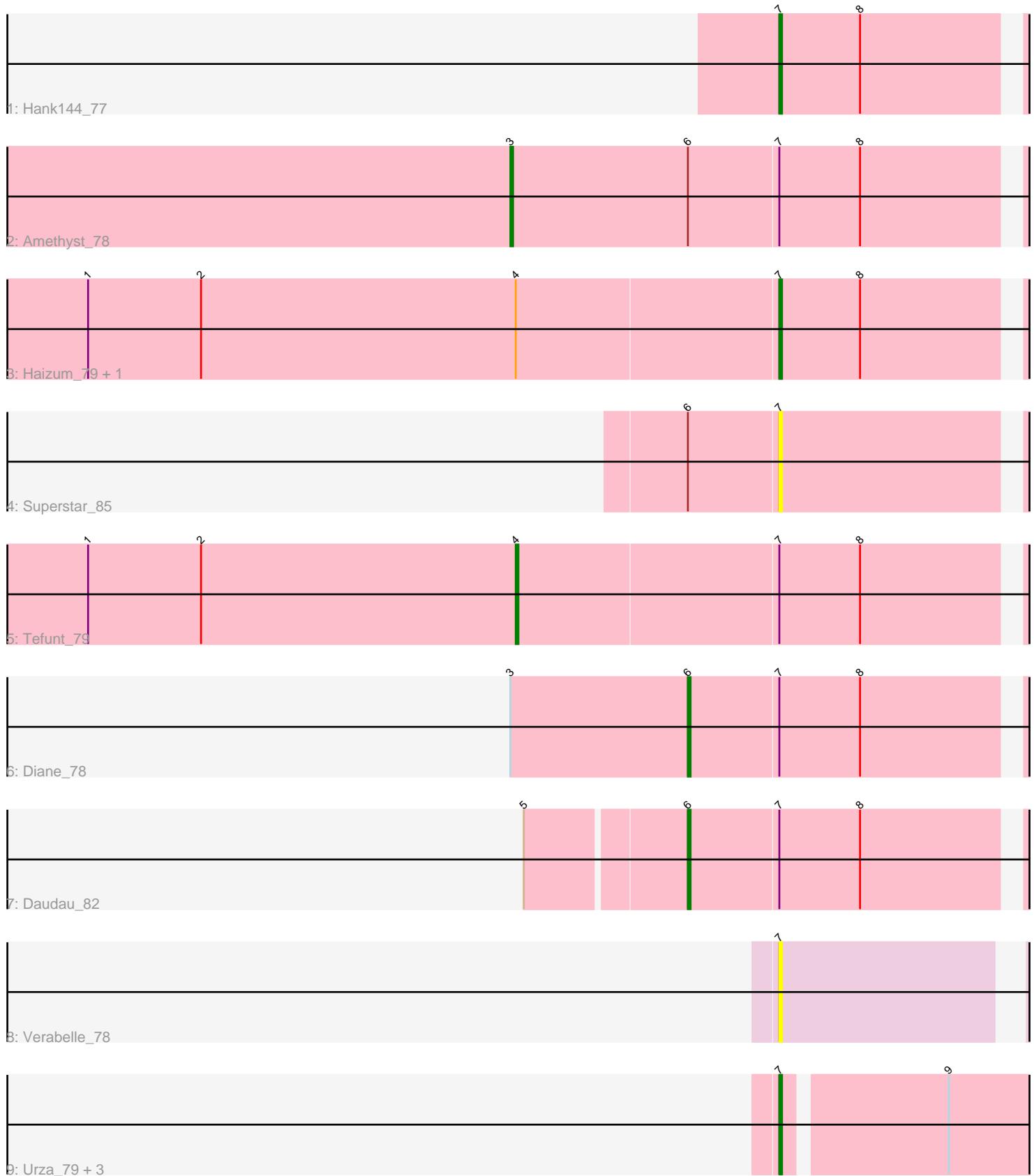


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 276706 Report

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

Pham number 276706 has 13 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Hank144\_77
- Track 2 : Amethyst\_78
- Track 3 : Haizum\_79, Nishikigoi\_80
- Track 4 : Superstar\_85
- Track 5 : Tefunt\_79
- Track 6 : Diane\_78
- Track 7 : Daudau\_82
- Track 8 : Verabelle\_78
- Track 9 : Urza\_79, Celia\_77, Itza\_80, VieEnRose\_78

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

The start number called the most often in the published annotations is 7, it was called in 7 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Celia\_77, Haizum\_79, Hank144\_77, Itza\_80, Nishikigoi\_80, Superstar\_85, Urza\_79, Verabelle\_78, VieEnRose\_78,

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

- Amethyst\_78, Daudau\_82, Diane\_78, Tefunt\_79,

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

- 

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

Start 3:

- Found in 2 of 13 ( 15.4% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Amethyst\_78 (BD2),

Start 4:

- Found in 3 of 13 ( 23.1% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Tefunt\_79 (BD2),

Start 6:

- Found in 4 of 13 ( 30.8% ) of genes in pham
- Manual Annotations of this start: 2 of 11
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Daudau\_82 (BD2), Diane\_78 (BD2),

Start 7:

- Found in 13 of 13 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 7 of 11
- Called 69.2% of time when present
- Phage (with cluster) where this start called: Celia\_77 (BD6), Haizum\_79 (BD2), Hank144\_77 (BD2), Itza\_80 (BD6), Nishikigoi\_80 (BD2), Superstar\_85 (BD2), Urza\_79 (BD6), Verabelle\_78 (BD3), VieEnRose\_78 (BD6),

### **Summary by clusters:**

There are 3 clusters represented in this pham: BD6, BD3, BD2,

Info for manual annotations of cluster BD2:

- Start number 3 was manually annotated 1 time for cluster BD2.
- Start number 4 was manually annotated 1 time for cluster BD2.
- Start number 6 was manually annotated 2 times for cluster BD2.
- Start number 7 was manually annotated 3 times for cluster BD2.

Info for manual annotations of cluster BD6:

- Start number 7 was manually annotated 4 times for cluster BD6.

### **Gene Information:**

Gene: Amethyst\_78 Start: 47975, Stop: 47742, Start Num: 3

Candidate Starts for Amethyst\_78:

(Start: 3 @47975 has 1 MA's), (Start: 6 @47909 has 2 MA's), (Start: 7 @47876 has 7 MA's), (8, 47846),

Gene: Celia\_77 Start: 48939, Stop: 48802, Start Num: 7

Candidate Starts for Celia\_77:

(Start: 7 @48939 has 7 MA's), (9, 48882),

Gene: Daudau\_82 Start: 49046, Stop: 48876, Start Num: 6

Candidate Starts for Daudau\_82:

(5, 49103), (Start: 6 @49046 has 2 MA's), (Start: 7 @49013 has 7 MA's), (8, 48983),

Gene: Diane\_78 Start: 49046, Stop: 48879, Start Num: 6

Candidate Starts for Diane\_78:

(Start: 3 @49112 has 1 MA's), (Start: 6 @49046 has 2 MA's), (Start: 7 @49013 has 7 MA's), (8, 48983),

Gene: Haizum\_79 Start: 49013, Stop: 48879, Start Num: 7

Candidate Starts for Haizum\_79:

(1, 49268), (2, 49226), (Start: 4 @49109 has 1 MA's), (Start: 7 @49013 has 7 MA's), (8, 48983),

Gene: Hank144\_77 Start: 49050, Stop: 48916, Start Num: 7

Candidate Starts for Hank144\_77:

(Start: 7 @49050 has 7 MA's), (8, 49020),

Gene: Itza\_80 Start: 48872, Stop: 48735, Start Num: 7

Candidate Starts for Itza\_80:

(Start: 7 @48872 has 7 MA's), (9, 48815),

Gene: Nishikigoi\_80 Start: 49013, Stop: 48879, Start Num: 7

Candidate Starts for Nishikigoi\_80:

(1, 49268), (2, 49226), (Start: 4 @49109 has 1 MA's), (Start: 7 @49013 has 7 MA's), (8, 48983),

Gene: Superstar\_85 Start: 48841, Stop: 48707, Start Num: 7

Candidate Starts for Superstar\_85:

(Start: 6 @48874 has 2 MA's), (Start: 7 @48841 has 7 MA's),

Gene: Tefunt\_79 Start: 49023, Stop: 48793, Start Num: 4

Candidate Starts for Tefunt\_79:

(1, 49182), (2, 49140), (Start: 4 @49023 has 1 MA's), (Start: 7 @48927 has 7 MA's), (8, 48897),

Gene: Urza\_79 Start: 48894, Stop: 48757, Start Num: 7

Candidate Starts for Urza\_79:

(Start: 7 @48894 has 7 MA's), (9, 48837),

Gene: Verabelle\_78 Start: 46871, Stop: 46743, Start Num: 7

Candidate Starts for Verabelle\_78:

(Start: 7 @46871 has 7 MA's),

Gene: VieEnRose\_78 Start: 48631, Stop: 48494, Start Num: 7

Candidate Starts for VieEnRose\_78:

(Start: 7 @48631 has 7 MA's), (9, 48574),