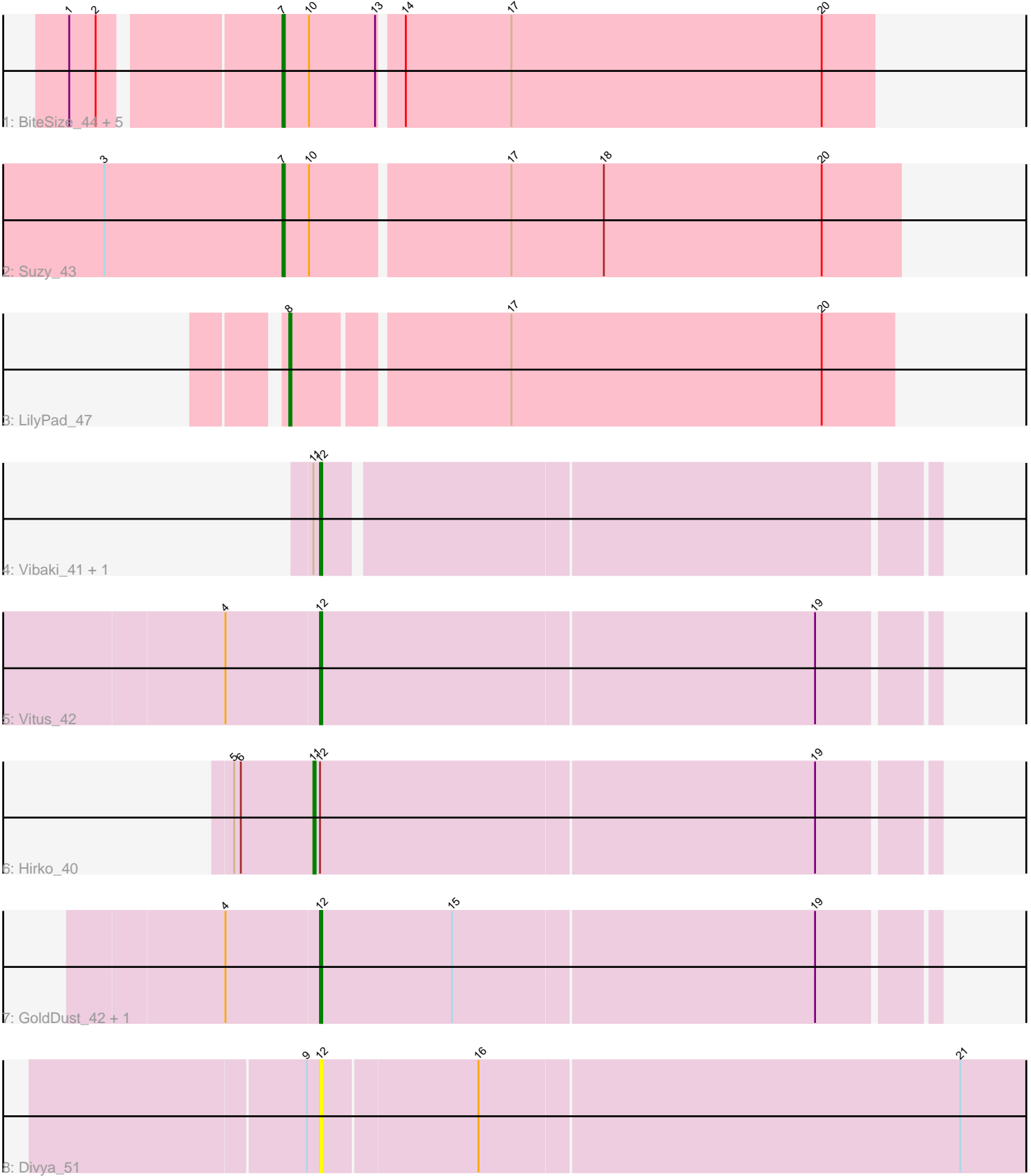


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 278710 Report

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

Pham number 278710 has 15 members, 3 are drafts.

Phages represented in each track:

- Track 1 : BiteSize\_44, Sienna\_44, Beyoncage\_44, Djokovic\_44, Madi\_44, Terapin\_45
- Track 2 : Suzy\_43
- Track 3 : LilyPad\_47
- Track 4 : Vibaki\_41, Music\_41
- Track 5 : Vitus\_42
- Track 6 : Hirko\_40
- Track 7 : GoldDust\_42, Gooberta\_42
- Track 8 : Divya\_51

### ***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 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beyoncage\_44, BiteSize\_44, Djokovic\_44, Madi\_44, Sienna\_44, Suzy\_43, Terapin\_45,

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

- 

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

- Divya\_51, GoldDust\_42, Gooberta\_42, Hirko\_40, LilyPad\_47, Music\_41, Vibaki\_41, Vitus\_42,

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

Start 7:

- Found in 7 of 15 ( 46.7% ) of genes in pham
- Manual Annotations of this start: 7 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beyoncage\_44 (DG1), BiteSize\_44 (DG1), Djokovic\_44 (DG1), Madi\_44 (DG1), Sienna\_44 (DG1), Suzy\_43 (DG1),

Terapin\_45 (DG1),

Start 8:

- Found in 1 of 15 ( 6.7% ) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LilyPad\_47 (DG1),

Start 11:

- Found in 3 of 15 ( 20.0% ) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Hirko\_40 (FL),

Start 12:

- Found in 7 of 15 ( 46.7% ) of genes in pham
- Manual Annotations of this start: 3 of 12
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Divya\_51 (FL), GoldDust\_42 (FL), Gooberta\_42 (FL), Music\_41 (FL), Vibaki\_41 (FL), Vitus\_42 (FL),

### **Summary by clusters:**

There are 2 clusters represented in this pham: DG1, FL,

Info for manual annotations of cluster DG1:

- Start number 7 was manually annotated 7 times for cluster DG1.
- Start number 8 was manually annotated 1 time for cluster DG1.

Info for manual annotations of cluster FL:

- Start number 11 was manually annotated 1 time for cluster FL.
- Start number 12 was manually annotated 3 times for cluster FL.

### **Gene Information:**

Gene: Beyoncage\_44 Start: 34762, Stop: 35025, Start Num: 7

Candidate Starts for Beyoncage\_44:

(1, 34675), (2, 34687), (Start: 7 @34762 has 7 MA's), (10, 34774), (13, 34804), (14, 34813), (17, 34861), (20, 35002),

Gene: BiteSize\_44 Start: 34848, Stop: 35111, Start Num: 7

Candidate Starts for BiteSize\_44:

(1, 34761), (2, 34773), (Start: 7 @34848 has 7 MA's), (10, 34860), (13, 34890), (14, 34899), (17, 34947), (20, 35088),

Gene: Divya\_51 Start: 34591, Stop: 34923, Start Num: 12

Candidate Starts for Divya\_51:

(9, 34585), (Start: 12 @34591 has 3 MA's), (16, 34660), (21, 34876),

Gene: Djokovic\_44 Start: 34761, Stop: 35024, Start Num: 7

Candidate Starts for Djokovic\_44:

(1, 34674), (2, 34686), (Start: 7 @34761 has 7 MA's), (10, 34773), (13, 34803), (14, 34812), (17, 34860), (20, 35001),

Gene: GoldDust\_42 Start: 34216, Stop: 34488, Start Num: 12

Candidate Starts for GoldDust\_42:

(4, 34174), (Start: 12 @34216 has 3 MA's), (15, 34276), (19, 34438),

Gene: Gooberta\_42 Start: 34215, Stop: 34487, Start Num: 12

Candidate Starts for Gooberta\_42:

(4, 34173), (Start: 12 @34215 has 3 MA's), (15, 34275), (19, 34437),

Gene: Hirko\_40 Start: 33453, Stop: 33728, Start Num: 11

Candidate Starts for Hirko\_40:

(5, 33417), (6, 33420), (Start: 11 @33453 has 1 MA's), (Start: 12 @33456 has 3 MA's), (19, 33678),

Gene: LilyPad\_47 Start: 36134, Stop: 36400, Start Num: 8

Candidate Starts for LilyPad\_47:

(Start: 8 @36134 has 1 MA's), (17, 36227), (20, 36368),

Gene: Madi\_44 Start: 34839, Stop: 35102, Start Num: 7

Candidate Starts for Madi\_44:

(1, 34752), (2, 34764), (Start: 7 @34839 has 7 MA's), (10, 34851), (13, 34881), (14, 34890), (17, 34938), (20, 35079),

Gene: Music\_41 Start: 33823, Stop: 34089, Start Num: 12

Candidate Starts for Music\_41:

(Start: 11 @33820 has 1 MA's), (Start: 12 @33823 has 3 MA's),

Gene: Sienna\_44 Start: 34839, Stop: 35102, Start Num: 7

Candidate Starts for Sienna\_44:

(1, 34752), (2, 34764), (Start: 7 @34839 has 7 MA's), (10, 34851), (13, 34881), (14, 34890), (17, 34938), (20, 35079),

Gene: Suzy\_43 Start: 35166, Stop: 35441, Start Num: 7

Candidate Starts for Suzy\_43:

(3, 35085), (Start: 7 @35166 has 7 MA's), (10, 35178), (17, 35265), (18, 35307), (20, 35406),

Gene: Terapin\_45 Start: 34763, Stop: 35026, Start Num: 7

Candidate Starts for Terapin\_45:

(1, 34676), (2, 34688), (Start: 7 @34763 has 7 MA's), (10, 34775), (13, 34805), (14, 34814), (17, 34862), (20, 35003),

Gene: Vibaki\_41 Start: 33844, Stop: 34110, Start Num: 12

Candidate Starts for Vibaki\_41:

(Start: 11 @33841 has 1 MA's), (Start: 12 @33844 has 3 MA's),

Gene: Vitus\_42 Start: 32840, Stop: 33112, Start Num: 12

Candidate Starts for Vitus\_42:

(4, 32798), (Start: 12 @32840 has 3 MA's), (19, 33062),