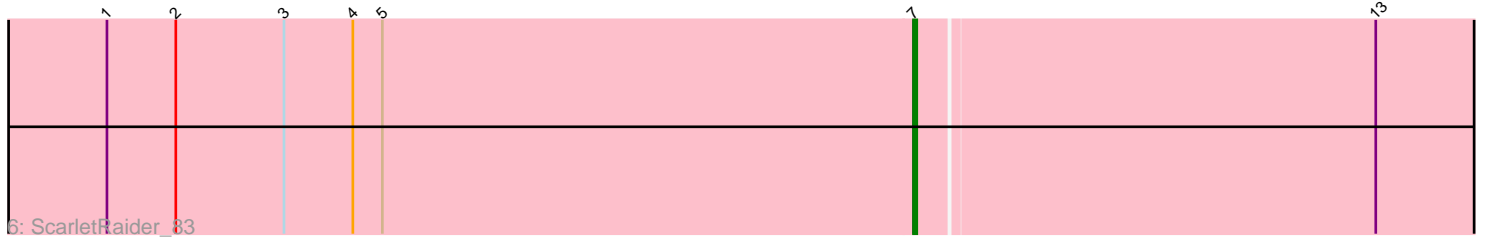
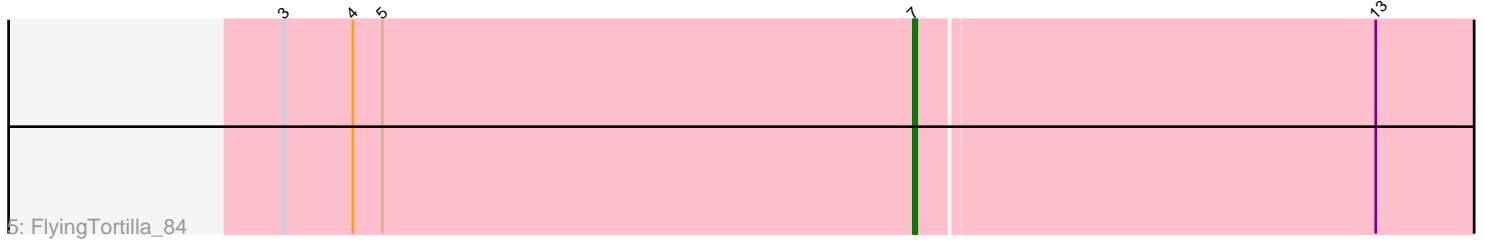
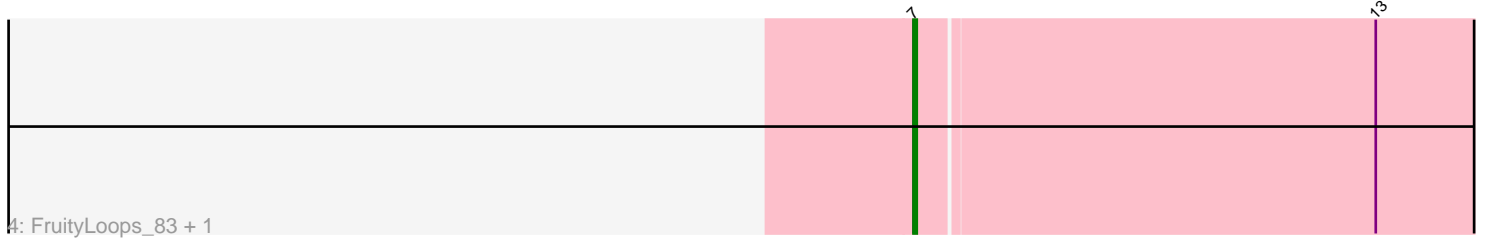
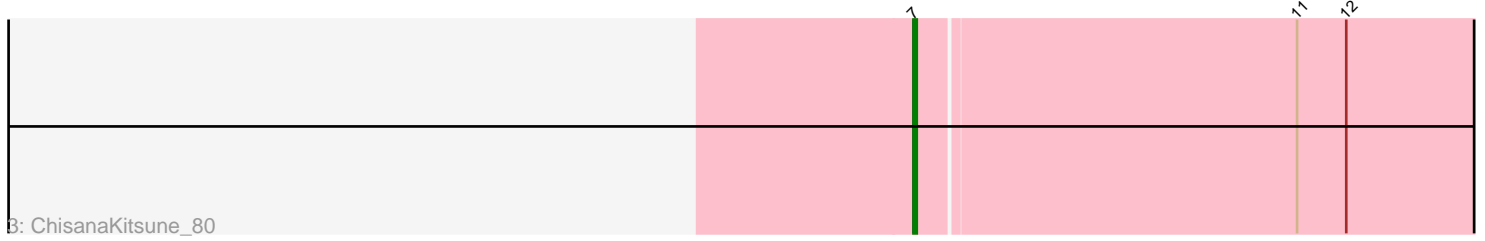
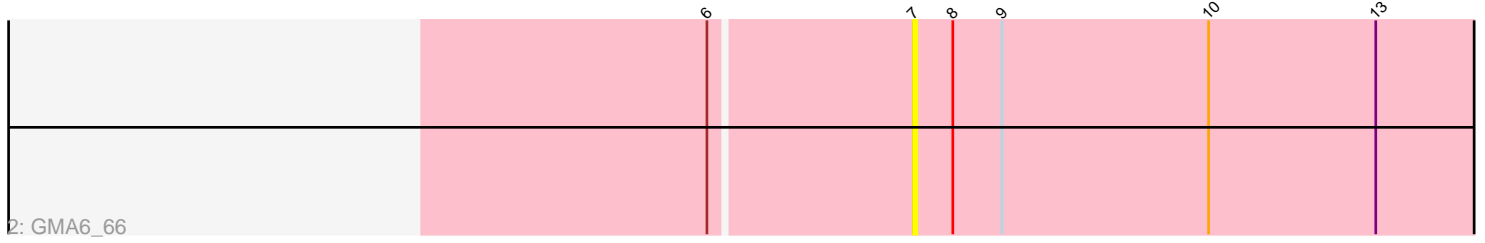
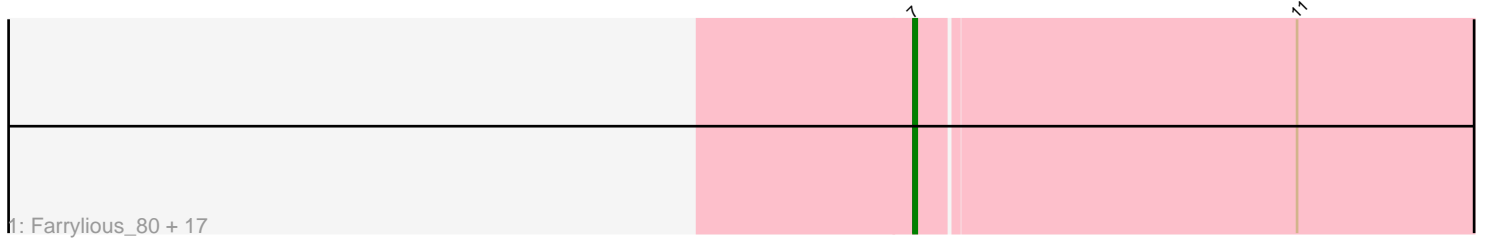


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 309179 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309179 has 24 members, 13 are drafts.

Phages represented in each track:

- Track 1 : Farrylious\_80, Kabocha\_84, MintFritos\_79, Oogie\_84, Argena\_80, Pakusa\_79, Twin\_78, Hanem\_82, Gray\_83, Beted\_83, Toneprano\_80, Amoonguss\_80, Lenoshki\_83, Schomber\_81, Chidiebere\_83, Alok\_i\_82, EmoNemo\_78, Mikronejon\_79
- Track 2 : GMA6\_66
- Track 3 : ChisanaKitsune\_80
- Track 4 : FruityLoops\_83, UBSmoodge\_86
- Track 5 : FlyingTortilla\_84
- Track 6 : ScarletRaider\_83

### ***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 11 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alok\_i\_82, Amoonguss\_80, Argena\_80, Beted\_83, Chidiebere\_83, ChisanaKitsune\_80, EmoNemo\_78, Farrylious\_80, FlyingTortilla\_84, FruityLoops\_83, GMA6\_66, Gray\_83, Hanem\_82, Kabocha\_84, Lenoshki\_83, Mikronejon\_79, MintFritos\_79, Oogie\_84, Pakusa\_79, ScarletRaider\_83, Schomber\_81, Toneprano\_80, Twin\_78, UBSmoodge\_86,

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

- 

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

- 

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

Start 7:

- Found in 24 of 24 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 11 of 11
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Alok\_i\_82 (DQ), Amoonguss\_80 (DQ), Argena\_80 (DQ), Beted\_83 (DQ), Chidiebere\_83 (DQ), ChisanaKitsune\_80 (DQ), EmoNemo\_78 (DQ), Farrylious\_80 (DQ), FlyingTortilla\_84 (DQ), FruityLoops\_83 (DQ), GMA6\_66 (DQ), Gray\_83 (DQ), Hanem\_82 (DQ), Kabocha\_84 (DQ), Lenoshki\_83 (DQ), Mikronejon\_79 (DQ), MintFritos\_79 (DQ), Oogie\_84 (DQ), Pakusa\_79 (DQ), ScarletRaider\_83 (DQ), Schomber\_81 (DQ), Toneprano\_80 (DQ), Twin\_78 (DQ), UBSmoodge\_86 (DQ),

### **Summary by clusters:**

There is one cluster represented in this pham: DQ

Info for manual annotations of cluster DQ:

- Start number 7 was manually annotated 11 times for cluster DQ.

### **Gene Information:**

Gene: Alok\_i\_82 Start: 63735, Stop: 63947, Start Num: 7

Candidate Starts for Alok\_i\_82:

(Start: 7 @63735 has 11 MA's), (11, 63849),

Gene: Amoonguss\_80 Start: 63690, Stop: 63902, Start Num: 7

Candidate Starts for Amoonguss\_80:

(Start: 7 @63690 has 11 MA's), (11, 63804),

Gene: Argena\_80 Start: 63702, Stop: 63914, Start Num: 7

Candidate Starts for Argena\_80:

(Start: 7 @63702 has 11 MA's), (11, 63816),

Gene: Beted\_83 Start: 65841, Stop: 66053, Start Num: 7

Candidate Starts for Beted\_83:

(Start: 7 @65841 has 11 MA's), (11, 65955),

Gene: Chidiebere\_83 Start: 64268, Stop: 64480, Start Num: 7

Candidate Starts for Chidiebere\_83:

(Start: 7 @64268 has 11 MA's), (11, 64382),

Gene: ChisanaKitsune\_80 Start: 63445, Stop: 63657, Start Num: 7

Candidate Starts for ChisanaKitsune\_80:

(Start: 7 @63445 has 11 MA's), (11, 63559), (12, 63574),

Gene: EmoNemo\_78 Start: 63735, Stop: 63947, Start Num: 7

Candidate Starts for EmoNemo\_78:

(Start: 7 @63735 has 11 MA's), (11, 63849),

Gene: Farrylious\_80 Start: 63466, Stop: 63678, Start Num: 7

Candidate Starts for Farrylious\_80:

(Start: 7 @63466 has 11 MA's), (11, 63580),

Gene: FlyingTortilla\_84 Start: 67913, Stop: 68119, Start Num: 7

Candidate Starts for FlyingTortilla\_84:

(3, 67724), (4, 67745), (5, 67754), (Start: 7 @67913 has 11 MA's), (13, 68051),

Gene: FruityLoops\_83 Start: 67214, Stop: 67420, Start Num: 7

Candidate Starts for FruityLoops\_83:

(Start: 7 @67214 has 11 MA's), (13, 67352),

Gene: GMA6\_66 Start: 54553, Stop: 54771, Start Num: 7

Candidate Starts for GMA6\_66:

(6, 54493), (Start: 7 @54553 has 11 MA's), (8, 54565), (9, 54580), (10, 54643), (13, 54694),

Gene: Gray\_83 Start: 64199, Stop: 64411, Start Num: 7

Candidate Starts for Gray\_83:

(Start: 7 @64199 has 11 MA's), (11, 64313),

Gene: Hanem\_82 Start: 63735, Stop: 63947, Start Num: 7

Candidate Starts for Hanem\_82:

(Start: 7 @63735 has 11 MA's), (11, 63849),

Gene: Kabocha\_84 Start: 65081, Stop: 65293, Start Num: 7

Candidate Starts for Kabocha\_84:

(Start: 7 @65081 has 11 MA's), (11, 65195),

Gene: Lenoshki\_83 Start: 65841, Stop: 66053, Start Num: 7

Candidate Starts for Lenoshki\_83:

(Start: 7 @65841 has 11 MA's), (11, 65955),

Gene: Mikronejon\_79 Start: 63735, Stop: 63947, Start Num: 7

Candidate Starts for Mikronejon\_79:

(Start: 7 @63735 has 11 MA's), (11, 63849),

Gene: MintFritos\_79 Start: 63706, Stop: 63918, Start Num: 7

Candidate Starts for MintFritos\_79:

(Start: 7 @63706 has 11 MA's), (11, 63820),

Gene: Oogie\_84 Start: 65894, Stop: 66106, Start Num: 7

Candidate Starts for Oogie\_84:

(Start: 7 @65894 has 11 MA's), (11, 66008),

Gene: Pakusa\_79 Start: 63461, Stop: 63673, Start Num: 7

Candidate Starts for Pakusa\_79:

(Start: 7 @63461 has 11 MA's), (11, 63575),

Gene: ScarletRaider\_83 Start: 67178, Stop: 67384, Start Num: 7

Candidate Starts for ScarletRaider\_83:

(1, 66935), (2, 66956), (3, 66989), (4, 67010), (5, 67019), (Start: 7 @67178 has 11 MA's), (13, 67316),

Gene: Schomber\_81 Start: 63469, Stop: 63681, Start Num: 7

Candidate Starts for Schomber\_81:

(Start: 7 @63469 has 11 MA's), (11, 63583),

Gene: Toneprano\_80 Start: 63704, Stop: 63916, Start Num: 7

Candidate Starts for Toneprano\_80:

(Start: 7 @63704 has 11 MA's), (11, 63818),

Gene: Twin\_78 Start: 63734, Stop: 63946, Start Num: 7

Candidate Starts for Twin\_78:

(Start: 7 @63734 has 11 MA's), (11, 63848),

Gene: UBSmoodge\_86 Start: 67618, Stop: 67824, Start Num: 7

Candidate Starts for UBSmoodge\_86:

(Start: 7 @67618 has 11 MA's), (13, 67756),