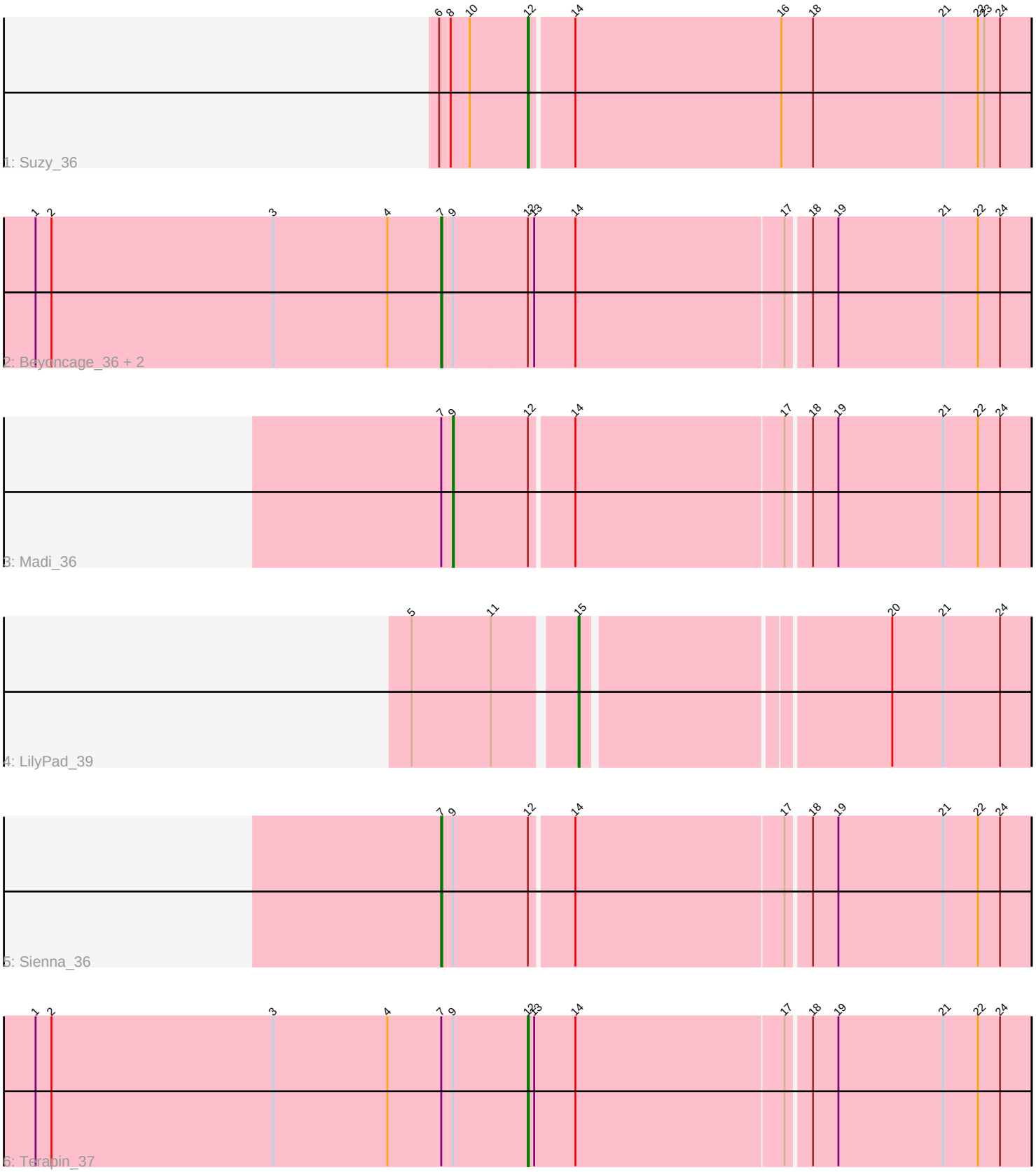
# Pham 209243


6
8
10
12
14
16
18
21
22
23
24
1: Suzy_36
1
2
3
4
7
9
12
13
14
17
18
19
21
22
24
2: Beyoncage_36 + 2
7
9
12
14
17
18
19
21
22
24
3: Madi_36
5
11
15
20
21
24
4: LilyPad_39
7
9
12
14
17
18
19
21
22
24
5: Sienna_36
1
2
3
4
7
9
12
13
14
17
18
19
21
22
24
6: Terabin_37

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 209243 Report

This analysis was run 02/22/25 on database version 588.

Pham number 209243 has 8 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Suzy_36
• Track 2 : Beyoncage_36, BiteSize_36, Djokovic_36
• Track 3 : Madi_36
• Track 4 : LilyPad_39
• Track 5 : Sienna_36
• Track 6 : Terapin_37

***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 4 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Beyoncage_36, BiteSize_36, Djokovic_36, Sienna_36,

Genes that have the "Most Annotated" start but do not call it:
• Madi_36, Terapin_37,

Genes that do not have the "Most Annotated" start:
• LilyPad_39, Suzy_36,

**Summary by start number:**

Start 7:
• Found in 6 of 8 ( 75.0% ) of genes in pham
• Manual Annotations of this start: 4 of 8
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Beyoncage_36 (DG1), BiteSize_36 (DG1), Djokovic_36 (DG1), Sienna_36 (DG1),

Start 9:
• Found in 6 of 8 ( 75.0% ) of genes in pham
• Manual Annotations of this start: 1 of 8
• Called 16.7% of time when present

• Phage (with cluster) where this start called: Madi_36 (DG1),

Start 12:
• Found in 7 of 8 ( 87.5% ) of genes in pham
• Manual Annotations of this start: 2 of 8
• Called 28.6% of time when present
• Phage (with cluster) where this start called: Suzy_36 (DG1), Terapin_37 (DG1),

Start 15:
• Found in 1 of 8 ( 12.5% ) of genes in pham
• Manual Annotations of this start: 1 of 8
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LilyPad_39 (DG1),

**Summary by clusters:**

There is one cluster represented in this pham: DG1

Info for manual annotations of cluster DG1:
•Start number 7 was manually annotated 4 times for cluster DG1.
•Start number 9 was manually annotated 1 time for cluster DG1.
•Start number 12 was manually annotated 2 times for cluster DG1.
•Start number 15 was manually annotated 1 time for cluster DG1.

***Gene Information:***

Gene: Beyoncage_36 Start: 30874, Stop: 31419, Start Num: 7
Candidate Starts for Beyoncage_36:
(1, 30490), (2, 30505), (3, 30715), (4, 30823), (Start: 7 @30874 has 4 MA's), (Start: 9 @30883 has 1 MA's), (Start: 12 @30952 has 2 MA's), (13, 30958), (14, 30997), (17, 31192), (18, 31213), (19, 31237), (21, 31336), (22, 31369), (24, 31390),

Gene: BiteSize_36 Start: 30960, Stop: 31505, Start Num: 7
Candidate Starts for BiteSize_36:
(1, 30576), (2, 30591), (3, 30801), (4, 30909), (Start: 7 @30960 has 4 MA's), (Start: 9 @30969 has 1 MA's), (Start: 12 @31038 has 2 MA's), (13, 31044), (14, 31083), (17, 31278), (18, 31299), (19, 31323), (21, 31422), (22, 31455), (24, 31476),

Gene: Djokovic_36 Start: 30873, Stop: 31418, Start Num: 7
Candidate Starts for Djokovic_36:
(1, 30489), (2, 30504), (3, 30714), (4, 30822), (Start: 7 @30873 has 4 MA's), (Start: 9 @30882 has 1 MA's), (Start: 12 @30951 has 2 MA's), (13, 30957), (14, 30996), (17, 31191), (18, 31212), (19, 31236), (21, 31335), (22, 31368), (24, 31389),

Gene: LilyPad_39 Start: 32381, Stop: 32785, Start Num: 15
Candidate Starts for LilyPad_39:
(5, 32234), (11, 32309), (Start: 15 @32381 has 1 MA's), (20, 32654), (21, 32702), (24, 32756),

Gene: Madi_36 Start: 30966, Stop: 31496, Start Num: 9
Candidate Starts for Madi_36:

(Start: 7 @30957 has 4 MA's), (Start: 9 @30966 has 1 MA's), (Start: 12 @31035 has 2 MA's), (14, 31074), (17, 31269), (18, 31290), (19, 31314), (21, 31413), (22, 31446), (24, 31467),

Gene: Sienna_36 Start: 30957, Stop: 31496, Start Num: 7
Candidate Starts for Sienna_36:
(Start: 7 @30957 has 4 MA's), (Start: 9 @30966 has 1 MA's), (Start: 12 @31035 has 2 MA's), (14, 31074), (17, 31269), (18, 31290), (19, 31314), (21, 31413), (22, 31446), (24, 31467),

Gene: Suzy_36 Start: 31538, Stop: 32008, Start Num: 12
Candidate Starts for Suzy_36:
(6, 31457), (8, 31466), (10, 31484), (Start: 12 @31538 has 2 MA's), (14, 31577), (16, 31772), (18, 31802), (21, 31925), (22, 31958), (23, 31964), (24, 31979),

Gene: Terapin_37 Start: 30953, Stop: 31420, Start Num: 12
Candidate Starts for Terapin_37:
(1, 30491), (2, 30506), (3, 30716), (4, 30824), (Start: 7 @30875 has 4 MA's), (Start: 9 @30884 has 1 MA's), (Start: 12 @30953 has 2 MA's), (13, 30959), (14, 30998), (17, 31193), (18, 31214), (19, 31238), (21, 31337), (22, 31370), (24, 31391),