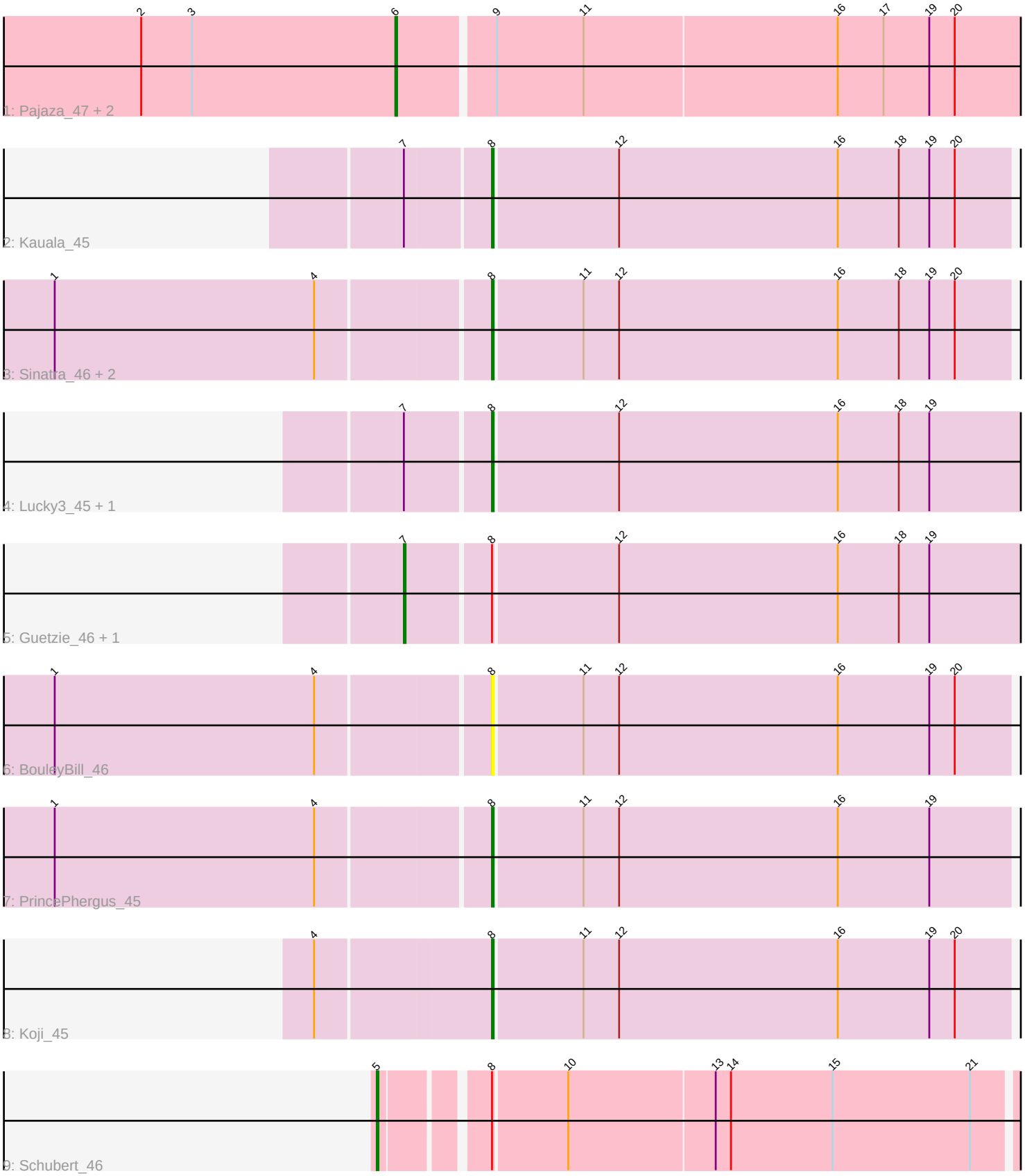
# Pham 4994


2 3 6 9 11 16 17 19 20
1: Pajaza_47 + 2
7 8 12 16 18 19 20
2: Kauala_45
1 4 8 11 12 16 18 19 20
3: Sinatra_46 + 2
7 8 12 16 18 19
4: Lucky3_45 + 1
7 8 12 16 18 19
5: Guetzie_46 + 1
1 4 8 11 12 16 19 20
6: BouleyBill_46
1 4 8 11 12 16 19
7: PrincePhergus_45
4 8 11 12 16 19 20
8: Koji_45
5 8 10 13 14 15 21
9: Schubert_46

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 4994 Report

This analysis was run 04/12/24 on database version 558.

Pham number 4994 has 15 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Pajaza_47, Casey_47, Pikmin_47
• Track 2 : Kauala_45
• Track 3 : Sinatra_46, Pherbot_45, Bustleton_45
• Track 4 : Lucky3_45, Golden_45
• Track 5 : Guetzie_46, SirVictor_46
• Track 6 : BouleyBill_46
• Track 7 : PrincePhergus_45
• Track 8 : Koji_45
• Track 9 : Schubert_46

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

The start number called the most often in the published annotations is 8, it was called in 8 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BouleyBill_46, Bustleton_45, Golden_45, Kauala_45, Koji_45, Lucky3_45, Pherbot_45, PrincePhergus_45, Sinatra_46,

Genes that have the "Most Annotated" start but do not call it:
• Guetzie_46, Schubert_46, SirVictor_46,

Genes that do not have the "Most Annotated" start:
• Casey_47, Pajaza_47, Pikmin_47,

**Summary by start number:**

Start 5:
• Found in 1 of 15 ( 6.7% ) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Schubert_46 (EA8),

Start 6:

• Found in 3 of 15 ( 20.0% ) of genes in pham
• Manual Annotations of this start: 3 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Casey_47 (EA3), Pajaza_47 (EA3), Pikmin_47 (EA3),

Start 7:
• Found in 5 of 15 ( 33.3% ) of genes in pham
• Manual Annotations of this start: 2 of 14
• Called 40.0% of time when present
• Phage (with cluster) where this start called: Guetzie_46 (EA4), SirVictor_46 (EA4),

Start 8:
• Found in 12 of 15 ( 80.0% ) of genes in pham
• Manual Annotations of this start: 8 of 14
• Called 75.0% of time when present
• Phage (with cluster) where this start called: BouleyBill_46 (EA4), Bustleton_45 (EA4), Golden_45 (EA4), Kauala_45 (EA4), Koji_45 (EA4), Lucky3_45 (EA4), Pherbot_45 (EA4), PrincePhergus_45 (EA4), Sinatra_46 (EA4),

**Summary by clusters:**

There are 3 clusters represented in this pham: EA8, EA3, EA4,

Info for manual annotations of cluster EA3:
•Start number 6 was manually annotated 3 times for cluster EA3.

Info for manual annotations of cluster EA4:
•Start number 7 was manually annotated 2 times for cluster EA4.
•Start number 8 was manually annotated 8 times for cluster EA4.

Info for manual annotations of cluster EA8:
•Start number 5 was manually annotated 1 time for cluster EA8.

***Gene Information:***

Gene: BouleyBill_46 Start: 33664, Stop: 33362, Start Num: 8
Candidate Starts for BouleyBill_46:
(1, 33913), (4, 33760), (Start: 8 @33664 has 8 MA's), (11, 33613), (12, 33592), (16, 33463), (19, 33409), (20, 33394),

Gene: Bustleton_45 Start: 33458, Stop: 33156, Start Num: 8
Candidate Starts for Bustleton_45:
(1, 33707), (4, 33554), (Start: 8 @33458 has 8 MA's), (11, 33407), (12, 33386), (16, 33257), (18, 33221), (19, 33203), (20, 33188),

Gene: Casey_47 Start: 34295, Stop: 33921, Start Num: 6
Candidate Starts for Casey_47:
(2, 34445), (3, 34415), (Start: 6 @34295 has 3 MA's), (9, 34241), (11, 34190), (16, 34043), (17, 34016), (19, 33989), (20, 33974),

Gene: Golden_45 Start: 33539, Stop: 33231, Start Num: 8
Candidate Starts for Golden_45:
(Start: 7 @33587 has 2 MA's), (Start: 8 @33539 has 8 MA's), (12, 33467), (16, 33338), (18, 33302), (19, 33284),

Gene: Guetzie_46 Start: 33572, Stop: 33216, Start Num: 7
Candidate Starts for Guetzie_46:
(Start: 7 @33572 has 2 MA's), (Start: 8 @33524 has 8 MA's), (12, 33452), (16, 33323), (18, 33287), (19, 33269),

Gene: Kauala_45 Start: 33829, Stop: 33527, Start Num: 8
Candidate Starts for Kauala_45:
(Start: 7 @33877 has 2 MA's), (Start: 8 @33829 has 8 MA's), (12, 33757), (16, 33628), (18, 33592), (19, 33574), (20, 33559),

Gene: Koji_45 Start: 33829, Stop: 33527, Start Num: 8
Candidate Starts for Koji_45:
(4, 33928), (Start: 8 @33829 has 8 MA's), (11, 33778), (12, 33757), (16, 33628), (19, 33574), (20, 33559),

Gene: Lucky3_45 Start: 33539, Stop: 33231, Start Num: 8
Candidate Starts for Lucky3_45:
(Start: 7 @33587 has 2 MA's), (Start: 8 @33539 has 8 MA's), (12, 33467), (16, 33338), (18, 33302), (19, 33284),

Gene: Pajaza_47 Start: 34295, Stop: 33921, Start Num: 6
Candidate Starts for Pajaza_47:
(2, 34445), (3, 34415), (Start: 6 @34295 has 3 MA's), (9, 34241), (11, 34190), (16, 34043), (17, 34016), (19, 33989), (20, 33974),

Gene: Pherbot_45 Start: 33445, Stop: 33143, Start Num: 8
Candidate Starts for Pherbot_45:
(1, 33694), (4, 33541), (Start: 8 @33445 has 8 MA's), (11, 33394), (12, 33373), (16, 33244), (18, 33208), (19, 33190), (20, 33175),

Gene: Pikmin_47 Start: 34295, Stop: 33921, Start Num: 6
Candidate Starts for Pikmin_47:
(2, 34445), (3, 34415), (Start: 6 @34295 has 3 MA's), (9, 34241), (11, 34190), (16, 34043), (17, 34016), (19, 33989), (20, 33974),

Gene: PrincePhergus_45 Start: 33461, Stop: 33159, Start Num: 8
Candidate Starts for PrincePhergus_45:
(1, 33710), (4, 33557), (Start: 8 @33461 has 8 MA's), (11, 33410), (12, 33389), (16, 33260), (19, 33206),

Gene: Schubert_46 Start: 34309, Stop: 33941, Start Num: 5
Candidate Starts for Schubert_46:
(Start: 5 @34309 has 1 MA's), (Start: 8 @34255 has 8 MA's), (10, 34213), (13, 34129), (14, 34120), (15, 34060), (21, 33979),

Gene: Sinatra_46 Start: 33456, Stop: 33154, Start Num: 8
Candidate Starts for Sinatra_46:

(1, 33705), (4, 33552), (Start: 8 @33456 has 8 MA's), (11, 33405), (12, 33384), (16, 33255), (18, 33219), (19, 33201), (20, 33186),

Gene: SirVictor_46 Start: 33572, Stop: 33216, Start Num: 7
Candidate Starts for SirVictor_46:
(Start: 7 @33572 has 2 MA's), (Start: 8 @33524 has 8 MA's), (12, 33452), (16, 33323), (18, 33287), (19, 33269),