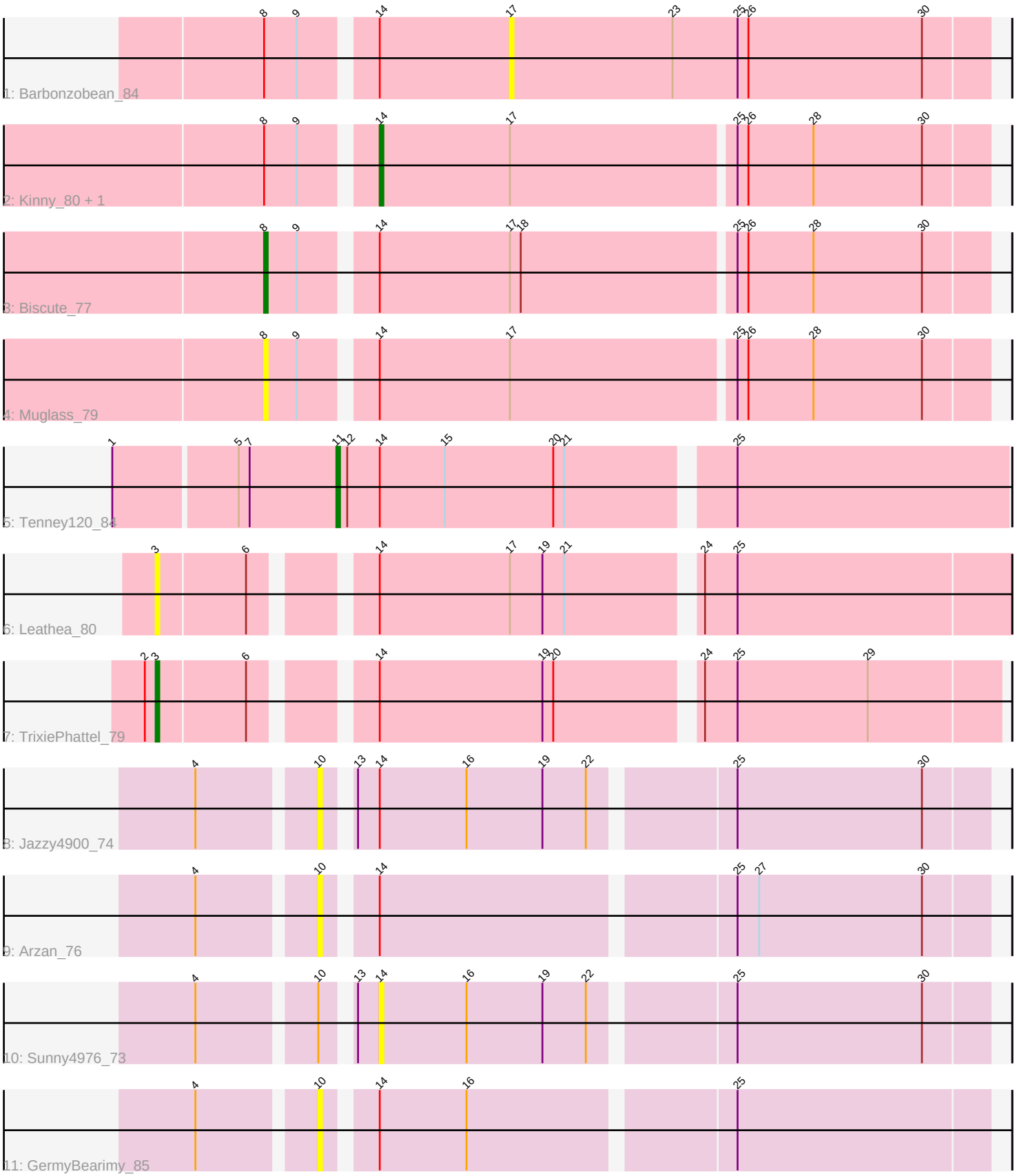
# Pham 291694


1: Barbonzobean_84
2: Kinny_80 + 1
3: Biscute_77
4: Muglass_79
5: Tenney120_84
6: Leathea_80
7: TrixiePhattel_79
8: Jazzy4900_74
9: Arzan_76
10: Sunny4976_73
11: GermyBearimy_85

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 291694 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291694 has 12 members, 8 are drafts.

Phages represented in each track:
• Track 1 : Barbonzobean_84
• Track 2 : Kinny_80, BarbieDoll_81
• Track 3 : Biscute_77
• Track 4 : Muglass_79
• Track 5 : Tenney120_84
• Track 6 : Leathea_80
• Track 7 : TrixiePhattel_79
• Track 8 : Jazzy4900_74
• Track 9 : Arzan_76
• Track 10 : Sunny4976_73
• Track 11 : GermyBearimy_85

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

The start number called the most often in the published annotations is 14, it was called in 1 of the 4 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BarbieDoll_81, Kinny_80, Sunny4976_73,

Genes that have the "Most Annotated" start but do not call it:
• Arzan_76, Barbonzobean_84, Biscute_77, GermyBearimy_85, Jazzy4900_74, Leathea_80, Muglass_79, Tenney120_84, TrixiePhattel_79,

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

**Summary by start number:**

Start 3:
• Found in 2 of 12 ( 16.7% ) of genes in pham
• Manual Annotations of this start: 1 of 4
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Leathea_80 (AU6), TrixiePhattel_79 (AU6),

Start 8:
• Found in 5 of 12 ( 41.7% ) of genes in pham
• Manual Annotations of this start: 1 of 4
• Called 40.0% of time when present
• Phage (with cluster) where this start called: Biscute_77 (AU6), Muglass_79 (AU6),

Start 10:
• Found in 4 of 12 ( 33.3% ) of genes in pham
• No Manual Annotations of this start.
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Arzan_76 (FI), GermyBearimy_85 (FI), Jazzy4900_74 (FI),

Start 11:
• Found in 1 of 12 ( 8.3% ) of genes in pham
• Manual Annotations of this start: 1 of 4
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Tenney120_84 (AU6),

Start 14:
• Found in 12 of 12 ( 100.0% ) of genes in pham
• Manual Annotations of this start: 1 of 4
• Called 25.0% of time when present
• Phage (with cluster) where this start called: BarbieDoll_81 (AU6), Kinny_80 (AU6), Sunny4976_73 (FI),

Start 17:
• Found in 6 of 12 ( 50.0% ) of genes in pham
• No Manual Annotations of this start.
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Barbonzobean_84 (AU6),

**Summary by clusters:**

There are 2 clusters represented in this pham: FI, AU6,

Info for manual annotations of cluster AU6:
•Start number 3 was manually annotated 1 time for cluster AU6.
•Start number 8 was manually annotated 1 time for cluster AU6.
•Start number 11 was manually annotated 1 time for cluster AU6.
•Start number 14 was manually annotated 1 time for cluster AU6.

***Gene Information:***

Gene: Arzan_76 Start: 48719, Stop: 48892, Start Num: 10
Candidate Starts for Arzan_76:
(4, 48689), (10, 48719), (Start: 14 @48731 has 1 MA's), (25, 48824), (27, 48830), (30, 48875),

Gene: BarbieDoll_81 Start: 48704, Stop: 48868, Start Num: 14
Candidate Starts for BarbieDoll_81:
(Start: 8 @48677 has 1 MA's), (9, 48686), (Start: 14 @48704 has 1 MA's), (17, 48740), (25, 48800), (26, 48803), (28, 48821), (30, 48851),

Gene: Barbonzobean_84 Start: 49245, Stop: 49376, Start Num: 17
Candidate Starts for Barbonzobean_84:
(Start: 8 @49182 has 1 MA's), (9, 49191), (Start: 14 @49209 has 1 MA's), (17, 49245), (23, 49290), (25, 49308), (26, 49311), (30, 49359),

Gene: Biscute_77 Start: 48329, Stop: 48520, Start Num: 8
Candidate Starts for Biscute_77:
(Start: 8 @48329 has 1 MA's), (9, 48338), (Start: 14 @48356 has 1 MA's), (17, 48392), (18, 48395), (25, 48452), (26, 48455), (28, 48473), (30, 48503),

Gene: GermyBearimy_85 Start: 50356, Stop: 50529, Start Num: 10
Candidate Starts for GermyBearimy_85:
(4, 50326), (10, 50356), (Start: 14 @50368 has 1 MA's), (16, 50392), (25, 50461),

Gene: Jazzy4900_74 Start: 49554, Stop: 49727, Start Num: 10
Candidate Starts for Jazzy4900_74:
(4, 49524), (10, 49554), (13, 49560), (Start: 14 @49566 has 1 MA's), (16, 49590), (19, 49611), (22, 49623), (25, 49659), (30, 49710),

Gene: Kinny_80 Start: 49183, Stop: 49347, Start Num: 14
Candidate Starts for Kinny_80:
(Start: 8 @49156 has 1 MA's), (9, 49165), (Start: 14 @49183 has 1 MA's), (17, 49219), (25, 49279), (26, 49282), (28, 49300), (30, 49330),

Gene: Leathea_80 Start: 47209, Stop: 47427, Start Num: 3
Candidate Starts for Leathea_80:
(Start: 3 @47209 has 1 MA's), (6, 47233), (Start: 14 @47260 has 1 MA's), (17, 47296), (19, 47305), (21, 47311), (24, 47344), (25, 47353),

Gene: Muglass_79 Start: 48233, Stop: 48424, Start Num: 8
Candidate Starts for Muglass_79:
(Start: 8 @48233 has 1 MA's), (9, 48242), (Start: 14 @48260 has 1 MA's), (17, 48296), (25, 48356), (26, 48359), (28, 48377), (30, 48407),

Gene: Sunny4976_73 Start: 49566, Stop: 49727, Start Num: 14
Candidate Starts for Sunny4976_73:
(4, 49524), (10, 49554), (13, 49560), (Start: 14 @49566 has 1 MA's), (16, 49590), (19, 49611), (22, 49623), (25, 49659), (30, 49710),

Gene: Tenney120_84 Start: 49737, Stop: 49916, Start Num: 11
Candidate Starts for Tenney120_84:
(1, 49677), (5, 49710), (7, 49713), (Start: 11 @49737 has 1 MA's), (12, 49740), (Start: 14 @49749 has 1 MA's), (15, 49767), (20, 49797), (21, 49800), (25, 49842),

Gene: TrixiePhattel_79 Start: 47374, Stop: 47589, Start Num: 3
Candidate Starts for TrixiePhattel_79:

(2, 47371), (Start: 3 @47374 has 1 MA's), (6, 47398), (Start: 14 @47425 has 1 MA's), (19, 47470), (20, 47473), (24, 47509), (25, 47518), (29, 47554),