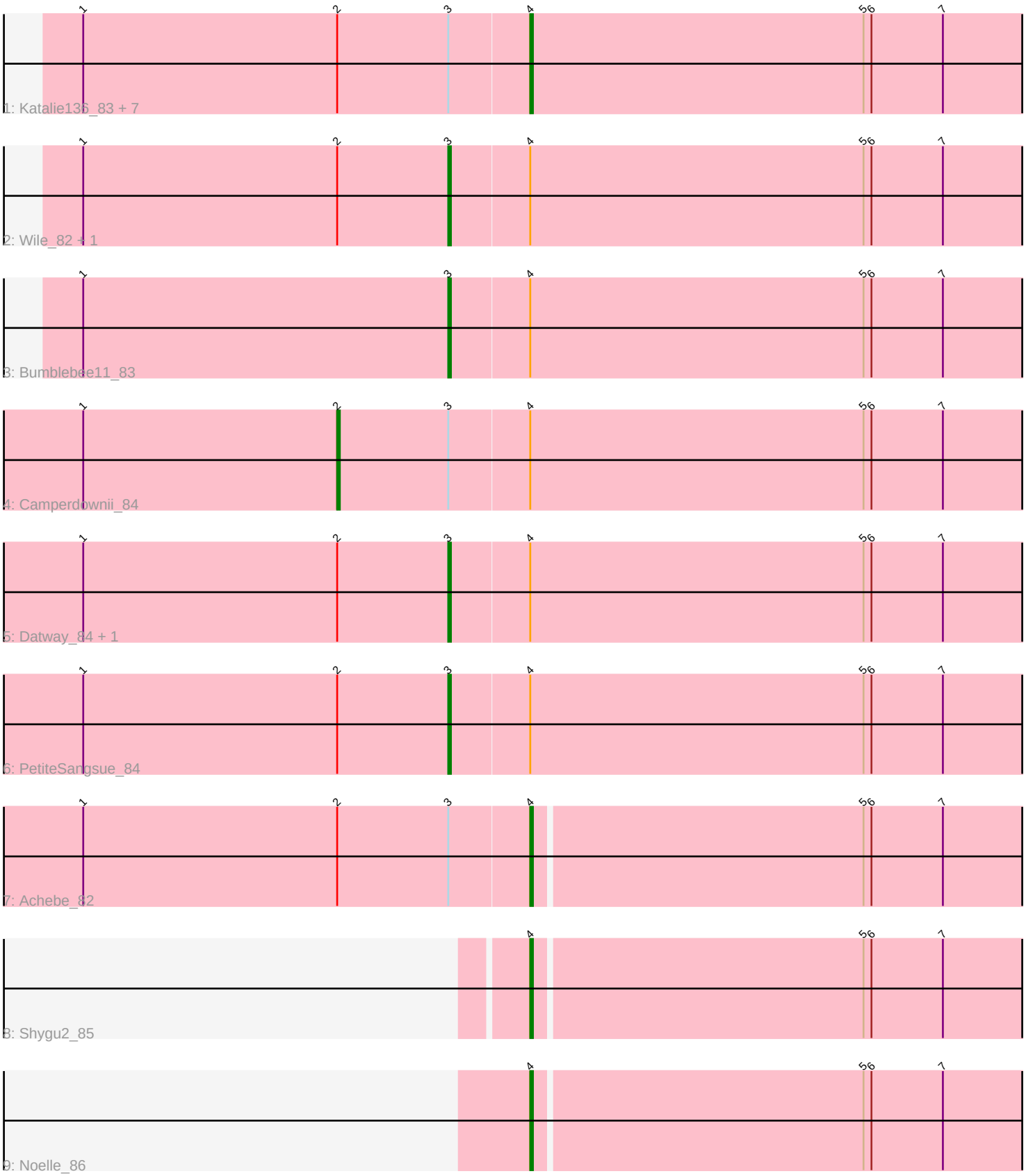
# Pham 106607


1: Katalie136_83 + 7
2: Wile_82 + 1
3: Bumblebee11_83
4: Camperdownii_84
5: Datway_84 + 1
6: PetiteSangsue_84
7: Achebe_82
8: Shygu2_85
9: Noelle_86

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 106607 Report

This analysis was run 04/28/24 on database version 559.

Pham number 106607 has 18 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Katalie136_83, Badger_82, Druantia_85, Wizard007_83, Backyardigan_81, Cici_83, Morpher26_83, AbbysRanger_83
• Track 2 : Wile_82, Perplexer_83
• Track 3 : Bumblebee11_83
• Track 4 : Camperdownii_84
• Track 5 : Datway_84, Xena_82
• Track 6 : PetiteSangsue_84
• Track 7 : Achebe_82
• Track 8 : Shygu2_85
• Track 9 : Noelle_86

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

The start number called the most often in the published annotations is 4, it was called in 11 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AbbysRanger_83, Achebe_82, Backyardigan_81, Badger_82, Cici_83, Druantia_85, Katalie136_83, Morpher26_83, Noelle_86, Shygu2_85, Wizard007_83,

Genes that have the "Most Annotated" start but do not call it:
• Bumblebee11_83, Camperdownii_84, Datway_84, Perplexer_83, PetiteSangsue_84, Wile_82, Xena_82,

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

**Summary by start number:**

Start 2:
• Found in 15 of 18 ( 83.3% ) of genes in pham
• Manual Annotations of this start: 1 of 18
• Called 6.7% of time when present
• Phage (with cluster) where this start called: Camperdownii_84 (A4),

Start 3:
• Found in 16 of 18 ( 88.9% ) of genes in pham
• Manual Annotations of this start: 6 of 18
• Called 37.5% of time when present
• Phage (with cluster) where this start called: Bumblebee11_83 (A4), Datway_84 (A4), Perplexer_83 (A4), PetiteSangsue_84 (A4), Wile_82 (A4), Xena_82 (A4),

Start 4:
• Found in 18 of 18 ( 100.0% ) of genes in pham
• Manual Annotations of this start: 11 of 18
• Called 61.1% of time when present
• Phage (with cluster) where this start called: AbbysRanger_83 (A4), Achebe_82 (A4), Backyardigan_81 (A4), Badger_82 (A4), Cici_83 (A4), Druantia_85 (A4), Katalie136_83 (A4), Morpher26_83 (A4), Noelle_86 (A4), Shygu2_85 (A4), Wizard007_83 (A4),

**Summary by clusters:**

There is one cluster represented in this pham: A4

Info for manual annotations of cluster A4:
•Start number 2 was manually annotated 1 time for cluster A4.
•Start number 3 was manually annotated 6 times for cluster A4.
•Start number 4 was manually annotated 11 times for cluster A4.

***Gene Information:***

Gene: AbbysRanger_83 Start: 48879, Stop: 48691, Start Num: 4
Candidate Starts for AbbysRanger_83:
(1, 49047), (Start: 2 @48951 has 1 MA's), (Start: 3 @48909 has 6 MA's), (Start: 4 @48879 has 11 MA's), (5, 48753), (6, 48750), (7, 48723),

Gene: Achebe_82 Start: 49020, Stop: 48835, Start Num: 4
Candidate Starts for Achebe_82:
(1, 49188), (Start: 2 @49092 has 1 MA's), (Start: 3 @49050 has 6 MA's), (Start: 4 @49020 has 11 MA's), (5, 48897), (6, 48894), (7, 48867),

Gene: Backyardigan_81 Start: 48895, Stop: 48707, Start Num: 4
Candidate Starts for Backyardigan_81:
(1, 49063), (Start: 2 @48967 has 1 MA's), (Start: 3 @48925 has 6 MA's), (Start: 4 @48895 has 11 MA's), (5, 48769), (6, 48766), (7, 48739),

Gene: Badger_82 Start: 48861, Stop: 48673, Start Num: 4
Candidate Starts for Badger_82:
(1, 49029), (Start: 2 @48933 has 1 MA's), (Start: 3 @48891 has 6 MA's), (Start: 4 @48861 has 11 MA's), (5, 48735), (6, 48732), (7, 48705),

Gene: Bumblebee11_83 Start: 48891, Stop: 48673, Start Num: 3
Candidate Starts for Bumblebee11_83:

(1, 49029), (Start: 3 @48891 has 6 MA's), (Start: 4 @48861 has 11 MA's), (5, 48735), (6, 48732), (7, 48705),

Gene: Camperdownii_84 Start: 48711, Stop: 48451, Start Num: 2
Candidate Starts for Camperdownii_84:
(1, 48807), (Start: 2 @48711 has 1 MA's), (Start: 3 @48669 has 6 MA's), (Start: 4 @48639 has 11 MA's), (5, 48513), (6, 48510), (7, 48483),

Gene: Cici_83 Start: 48874, Stop: 48686, Start Num: 4
Candidate Starts for Cici_83:
(1, 49042), (Start: 2 @48946 has 1 MA's), (Start: 3 @48904 has 6 MA's), (Start: 4 @48874 has 11 MA's), (5, 48748), (6, 48745), (7, 48718),

Gene: Datway_84 Start: 48921, Stop: 48703, Start Num: 3
Candidate Starts for Datway_84:
(1, 49059), (Start: 2 @48963 has 1 MA's), (Start: 3 @48921 has 6 MA's), (Start: 4 @48891 has 11 MA's), (5, 48765), (6, 48762), (7, 48735),

Gene: Druantia_85 Start: 49070, Stop: 48882, Start Num: 4
Candidate Starts for Druantia_85:
(1, 49238), (Start: 2 @49142 has 1 MA's), (Start: 3 @49100 has 6 MA's), (Start: 4 @49070 has 11 MA's), (5, 48944), (6, 48941), (7, 48914),

Gene: Katalie136_83 Start: 48861, Stop: 48673, Start Num: 4
Candidate Starts for Katalie136_83:
(1, 49029), (Start: 2 @48933 has 1 MA's), (Start: 3 @48891 has 6 MA's), (Start: 4 @48861 has 11 MA's), (5, 48735), (6, 48732), (7, 48705),

Gene: Morpher26_83 Start: 48882, Stop: 48694, Start Num: 4
Candidate Starts for Morpher26_83:
(1, 49050), (Start: 2 @48954 has 1 MA's), (Start: 3 @48912 has 6 MA's), (Start: 4 @48882 has 11 MA's), (5, 48756), (6, 48753), (7, 48726),

Gene: Noelle_86 Start: 49198, Stop: 49013, Start Num: 4
Candidate Starts for Noelle_86:
(Start: 4 @49198 has 11 MA's), (5, 49075), (6, 49072), (7, 49045),

Gene: Perplexer_83 Start: 48892, Stop: 48674, Start Num: 3
Candidate Starts for Perplexer_83:
(1, 49030), (Start: 2 @48934 has 1 MA's), (Start: 3 @48892 has 6 MA's), (Start: 4 @48862 has 11 MA's), (5, 48736), (6, 48733), (7, 48706),

Gene: PetiteSangsue_84 Start: 48895, Stop: 48677, Start Num: 3
Candidate Starts for PetiteSangsue_84:
(1, 49033), (Start: 2 @48937 has 1 MA's), (Start: 3 @48895 has 6 MA's), (Start: 4 @48865 has 11 MA's), (5, 48739), (6, 48736), (7, 48709),

Gene: Shygu2_85 Start: 49021, Stop: 48836, Start Num: 4
Candidate Starts for Shygu2_85:
(Start: 4 @49021 has 11 MA's), (5, 48898), (6, 48895), (7, 48868),

Gene: Wile_82 Start: 48921, Stop: 48703, Start Num: 3
Candidate Starts for Wile_82:

(1, 49059), (Start: 2 @48963 has 1 MA's), (Start: 3 @48921 has 6 MA's), (Start: 4 @48891 has 11 MA's), (5, 48765), (6, 48762), (7, 48735),

Gene: Wizard007_83 Start: 48617, Stop: 48429, Start Num: 4
Candidate Starts for Wizard007_83:
(1, 48785), (Start: 2 @48689 has 1 MA's), (Start: 3 @48647 has 6 MA's), (Start: 4 @48617 has 11 MA's), (5, 48491), (6, 48488), (7, 48461),

Gene: Xena_82 Start: 48929, Stop: 48711, Start Num: 3
Candidate Starts for Xena_82:
(1, 49067), (Start: 2 @48971 has 1 MA's), (Start: 3 @48929 has 6 MA's), (Start: 4 @48899 has 11 MA's), (5, 48773), (6, 48770), (7, 48743),