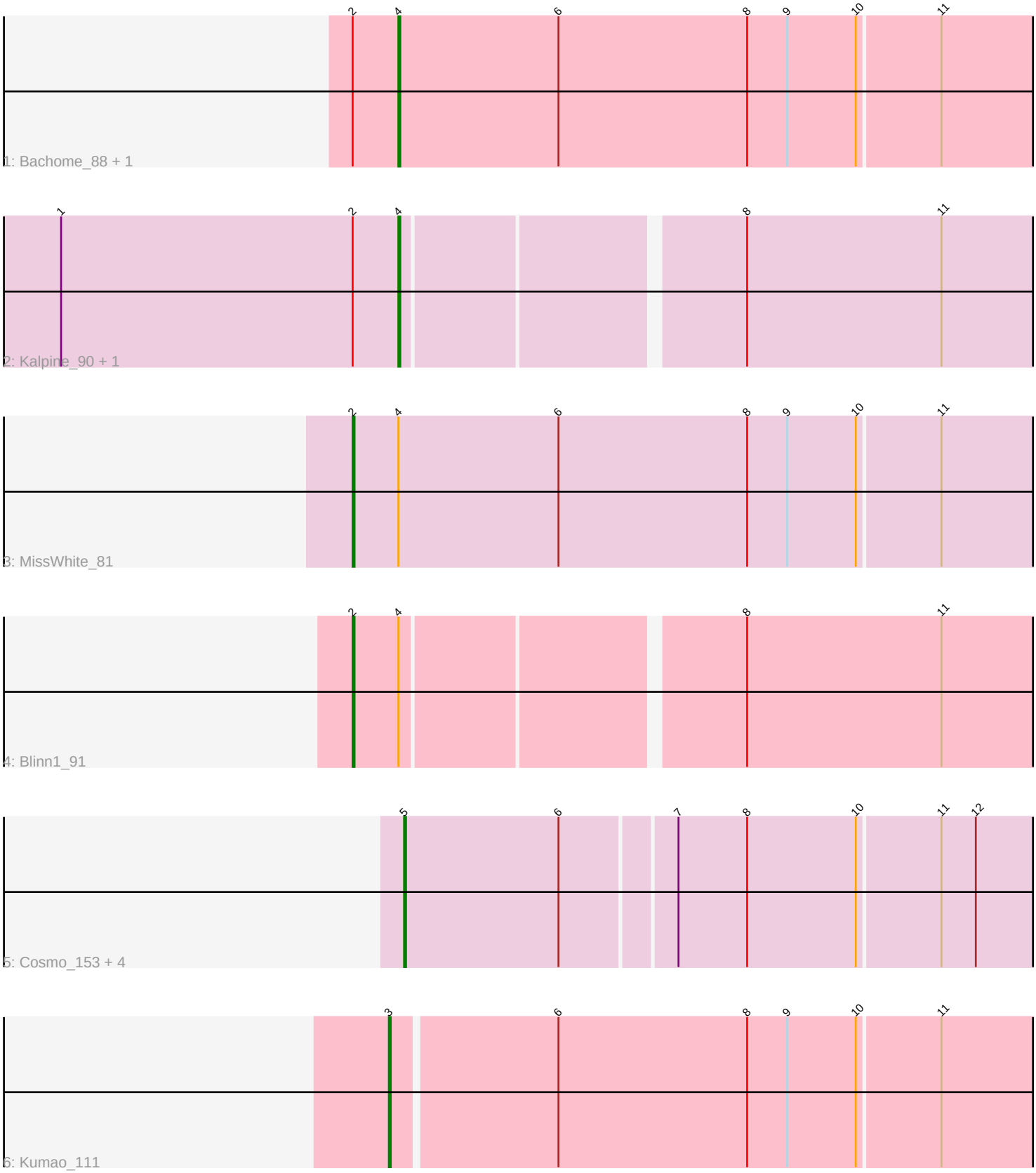
Pham 297138


2
4
6
8
9
10
11
1: Bachome_88 + 1
1
2
4
8
11
2: Kalpine_90 + 1
2
4
6
8
9
10
11
3: MissWhite_81
2
4
8
11
4: Blinn1_91
5
6
7
8
10
11
12
5: Cosmo_153 + 4
3
6
8
9
10
11
6: Kumao_111

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 297138 Report

This analysis was run 04/25/26 on database version 644.

Pham number 297138 has 12 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Bachome_88, Saskia_87
• Track 2 : Kalpine_90, Trixie_87
• Track 3 : MissWhite_81
• Track 4 : Blinn1_91
• Track 5 : Cosmo_153, EniyanLRS_145, Azrael100_145, Wildcat_152, MaryV_138
• Track 6 : Kumao_111

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

The start number called the most often in the published annotations is 5, it was called in 5 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Azrael100_145, Cosmo_153, EniyanLRS_145, MaryV_138, Wildcat_152,

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

Genes that do not have the "Most Annotated" start:
• Bachome_88, Blinn1_91, Kalpine_90, Kumao_111, MissWhite_81, Saskia_87, Trixie_87,

Summary by start number:

Start 2:
• Found in 6 of 12 (50.0%) of genes in pham
• Manual Annotations of this start: 2 of 11
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Blinn1_91 (A6), MissWhite_81 (A2),

Start 3:
• Found in 1 of 12 (8.3%) of genes in pham
• Manual Annotations of this start: 1 of 11
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Kumao_111 (singleton),

Start 4:
• Found in 6 of 12 (50.0%) of genes in pham
• Manual Annotations of this start: 3 of 11
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Bachome_88 (A11), Kalpine_90 (A2), Saskia_87 (A11), Trixie_87 (A2),

Start 5:
• Found in 5 of 12 (41.7%) of genes in pham
• Manual Annotations of this start: 5 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Azrael100_145 (V), Cosmo_153 (V), EniyanLRS_145 (V), MaryV_138 (V), Wildcat_152 (V),

Summary by clusters:

There are 5 clusters represented in this pham: singleton, A2, A11, A6, V,

Info for manual annotations of cluster A11:
•Start number 4 was manually annotated 1 time for cluster A11.

Info for manual annotations of cluster A2:
•Start number 2 was manually annotated 1 time for cluster A2.
•Start number 4 was manually annotated 2 times for cluster A2.

Info for manual annotations of cluster A6:
•Start number 2 was manually annotated 1 time for cluster A6.

Info for manual annotations of cluster V:
•Start number 5 was manually annotated 5 times for cluster V.

Gene Information:

Gene: Azrael100_145 Start: 69859, Stop: 69524, Start Num: 5
Candidate Starts for Azrael100_145:
(Start: 5 @69859 has 5 MA's), (6, 69778), (7, 69721), (8, 69685), (10, 69628), (11, 69586), (12, 69568),

Gene: Bachome_88 Start: 47603, Stop: 47259, Start Num: 4
Candidate Starts for Bachome_88:
(Start: 2 @47627 has 2 MA's), (Start: 4 @47603 has 3 MA's), (6, 47519), (8, 47420), (9, 47399), (10, 47363), (11, 47321),

Gene: Blinn1_91 Start: 47767, Stop: 47411, Start Num: 2
Candidate Starts for Blinn1_91:
(Start: 2 @47767 has 2 MA's), (Start: 4 @47743 has 3 MA's), (8, 47575), (11, 47473),

Gene: Cosmo_153 Start: 70023, Stop: 69688, Start Num: 5
Candidate Starts for Cosmo_153:
(Start: 5 @70023 has 5 MA's), (6, 69942), (7, 69885), (8, 69849), (10, 69792), (11, 69750), (12, 69732),

Gene: EniyanLRS_145 Start: 70352, Stop: 70017, Start Num: 5
Candidate Starts for EniyanLRS_145:
(Start: 5 @70352 has 5 MA's), (6, 70271), (7, 70214), (8, 70178), (10, 70121), (11, 70079), (12, 70061),

Gene: Kalpine_90 Start: 49691, Stop: 49359, Start Num: 4
Candidate Starts for Kalpine_90:
(1, 49868), (Start: 2 @49715 has 2 MA's), (Start: 4 @49691 has 3 MA's), (8, 49523), (11, 49421),

Gene: Kumao_111 Start: 66431, Stop: 66087, Start Num: 3
Candidate Starts for Kumao_111:
(Start: 3 @66431 has 1 MA's), (6, 66347), (8, 66248), (9, 66227), (10, 66191), (11, 66149),

Gene: MaryV_138 Start: 68201, Stop: 67863, Start Num: 5
Candidate Starts for MaryV_138:
(Start: 5 @68201 has 5 MA's), (6, 68120), (7, 68060), (8, 68024), (10, 67967), (11, 67925), (12, 67907),

Gene: MissWhite_81 Start: 45575, Stop: 45207, Start Num: 2
Candidate Starts for MissWhite_81:
(Start: 2 @45575 has 2 MA's), (Start: 4 @45551 has 3 MA's), (6, 45467), (8, 45368), (9, 45347), (10, 45311), (11, 45269),

Gene: Saskia_87 Start: 47617, Stop: 47273, Start Num: 4
Candidate Starts for Saskia_87:
(Start: 2 @47641 has 2 MA's), (Start: 4 @47617 has 3 MA's), (6, 47533), (8, 47434), (9, 47413), (10, 47377), (11, 47335),

Gene: Trixie_87 Start: 49773, Stop: 49441, Start Num: 4
Candidate Starts for Trixie_87:
(1, 49950), (Start: 2 @49797 has 2 MA's), (Start: 4 @49773 has 3 MA's), (8, 49605), (11, 49503),

Gene: Wildcat_152 Start: 70094, Stop: 69756, Start Num: 5
Candidate Starts for Wildcat_152:
(Start: 5 @70094 has 5 MA's), (6, 70013), (7, 69953), (8, 69917), (10, 69860), (11, 69818), (12, 69800),