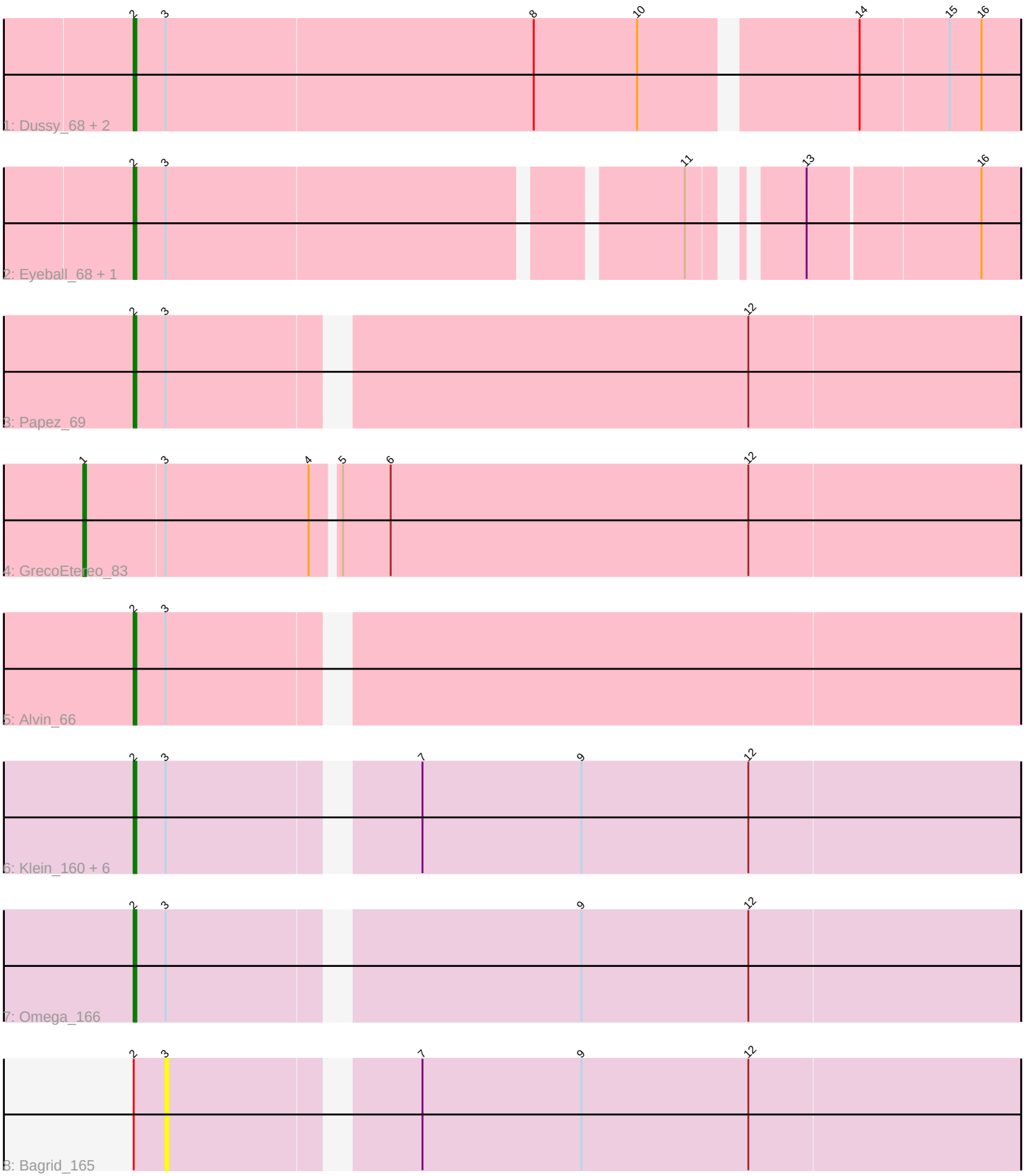
# Pham 200670


2
3
8
10
14
15
16
1: Dussy_68 + 2
2
3
11
13
16
2: Eyeball_68 + 1
2
3
12
3: Papez_69
1
3
4
5
6
12
4: GrecoEtereo_83
2
3
5: Alvin_66
2
3
7
9
12
6: Klein_160 + 6
2
3
9
12
7: Omega_166
2
3
7
9
12
8: Bagrid_165

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 200670 Report

This analysis was run 01/18/25 on database version 583.

Pham number 200670 has 17 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Dussy_68, Kenmech_71, Abbyshoes_69
• Track 2 : Eyeball_68, Bones_65
• Track 3 : Papez_69
• Track 4 : GrecoEtereo_83
• Track 5 : Alvin_66
• Track 6 : Klein_160, Constella_153, BAKA_162, EricMillard_155, Kalah2_153, Optimus_153, Duke13_159
• Track 7 : Omega_166
• Track 8 : Bagrid_165

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

The start number called the most often in the published annotations is 2, it was called in 15 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Abbyshoes_69, Alvin_66, BAKA_162, Bones_65, Constella_153, Duke13_159, Dussy_68, EricMillard_155, Eyeball_68, Kalah2_153, Kenmech_71, Klein_160, Omega_166, Optimus_153, Papez_69,

Genes that have the "Most Annotated" start but do not call it:
• Bagrid_165,

Genes that do not have the "Most Annotated" start:
• GrecoEtereo_83,

**Summary by start number:**

Start 1:
• Found in 1 of 17 ( 5.9% ) of genes in pham
• Manual Annotations of this start: 1 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GrecoEtereo_83 (A1),

Start 2:
• Found in 16 of 17 ( 94.1% ) of genes in pham
• Manual Annotations of this start: 15 of 16
• Called 93.8% of time when present
• Phage (with cluster) where this start called: Abbyshoes_69 (A1), Alvin_66 (A1), BAKA_162 (J), Bones_65 (A1), Constella_153 (J), Duke13_159 (J), Dussy_68 (A1), EricMillard_155 (J), Eyeball_68 (A1), Kalah2_153 (J), Kenmech_71 (A1), Klein_160 (J), Omega_166 (J), Optimus_153 (J), Papez_69 (A1),

Start 3:
• Found in 17 of 17 ( 100.0% ) of genes in pham
• No Manual Annotations of this start.
• Called 5.9% of time when present
• Phage (with cluster) where this start called: Bagrid_165 (J),

**Summary by clusters:**

There are 2 clusters represented in this pham: A1, J,

Info for manual annotations of cluster A1:
•Start number 1 was manually annotated 1 time for cluster A1.
•Start number 2 was manually annotated 7 times for cluster A1.

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

***Gene Information:***

Gene: Abbyshoes_69 Start: 43592, Stop: 43269, Start Num: 2
Candidate Starts for Abbyshoes_69:
(Start: 2 @43592 has 15 MA's), (3, 43580), (8, 43442), (10, 43403), (14, 43328), (15, 43295), (16, 43283),

Gene: Alvin_66 Start: 42916, Stop: 42596, Start Num: 2
Candidate Starts for Alvin_66:
(Start: 2 @42916 has 15 MA's), (3, 42904),

Gene: BAKA_162 Start: 85804, Stop: 86124, Start Num: 2
Candidate Starts for BAKA_162:
(Start: 2 @85804 has 15 MA's), (3, 85816), (7, 85900), (9, 85960), (12, 86023),

Gene: Bagrid_165 Start: 87045, Stop: 87353, Start Num: 3
Candidate Starts for Bagrid_165:
(Start: 2 @87033 has 15 MA's), (3, 87045), (7, 87129), (9, 87189), (12, 87252),

Gene: Bones_65 Start: 43789, Stop: 43487, Start Num: 2
Candidate Starts for Bones_65:
(Start: 2 @43789 has 15 MA's), (3, 43777), (11, 43594), (13, 43564), (16, 43501),

Gene: Constella_153 Start: 84035, Stop: 84355, Start Num: 2
Candidate Starts for Constella_153:

(Start: 2 @84035 has 15 MA's), (3, 84047), (7, 84131), (9, 84191), (12, 84254),

Gene: Duke13_159 Start: 84300, Stop: 84620, Start Num: 2
Candidate Starts for Duke13_159:
(Start: 2 @84300 has 15 MA's), (3, 84312), (7, 84396), (9, 84456), (12, 84519),

Gene: Dussy_68 Start: 43612, Stop: 43289, Start Num: 2
Candidate Starts for Dussy_68:
(Start: 2 @43612 has 15 MA's), (3, 43600), (8, 43462), (10, 43423), (14, 43348), (15, 43315), (16, 43303),

Gene: EricMillard_155 Start: 85643, Stop: 85963, Start Num: 2
Candidate Starts for EricMillard_155:
(Start: 2 @85643 has 15 MA's), (3, 85655), (7, 85739), (9, 85799), (12, 85862),

Gene: Eyeball_68 Start: 43697, Stop: 43395, Start Num: 2
Candidate Starts for Eyeball_68:
(Start: 2 @43697 has 15 MA's), (3, 43685), (11, 43502), (13, 43472), (16, 43409),

Gene: GrecoEtereo_83 Start: 49393, Stop: 49046, Start Num: 1
Candidate Starts for GrecoEtereo_83:
(Start: 1 @49393 has 1 MA's), (3, 49363), (4, 49309), (5, 49300), (6, 49282), (12, 49147),

Gene: Kalah2_153 Start: 85231, Stop: 85551, Start Num: 2
Candidate Starts for Kalah2_153:
(Start: 2 @85231 has 15 MA's), (3, 85243), (7, 85327), (9, 85387), (12, 85450),

Gene: Kenmech_71 Start: 44738, Stop: 44415, Start Num: 2
Candidate Starts for Kenmech_71:
(Start: 2 @44738 has 15 MA's), (3, 44726), (8, 44588), (10, 44549), (14, 44474), (15, 44441), (16, 44429),

Gene: Klein_160 Start: 83591, Stop: 83911, Start Num: 2
Candidate Starts for Klein_160:
(Start: 2 @83591 has 15 MA's), (3, 83603), (7, 83687), (9, 83747), (12, 83810),

Gene: Omega_166 Start: 86624, Stop: 86944, Start Num: 2
Candidate Starts for Omega_166:
(Start: 2 @86624 has 15 MA's), (3, 86636), (9, 86780), (12, 86843),

Gene: Optimus_153 Start: 84120, Stop: 84440, Start Num: 2
Candidate Starts for Optimus_153:
(Start: 2 @84120 has 15 MA's), (3, 84132), (7, 84216), (9, 84276), (12, 84339),

Gene: Papez_69 Start: 44344, Stop: 44024, Start Num: 2
Candidate Starts for Papez_69:
(Start: 2 @44344 has 15 MA's), (3, 44332), (12, 44125),