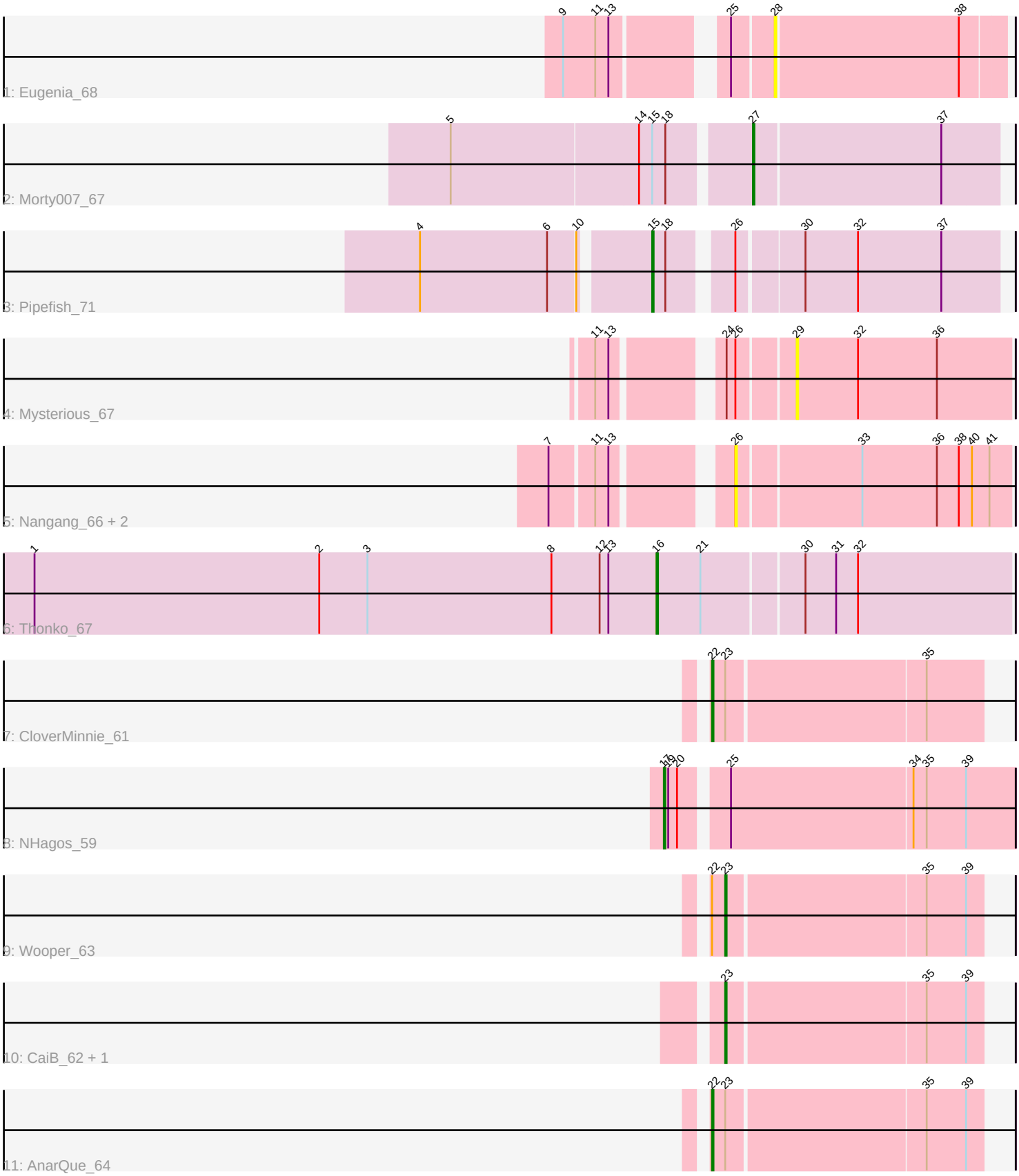
Pham 164033


1: Eugenia_68
2: Morty007_67
3: Pipefish_71
4: Mysterious_67
5: Nangang_66 + 2
6: Thonko_67
7: CloverMinnie_61
8: NHagos_59
9: Wooper_63
10: CaiB_62 + 1
11: AnarQue_64

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 164033 Report

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

Pham number 164033 has 14 members, 6 are drafts.

Phages represented in each track:
• Track 1 : Eugenia_68
• Track 2 : Morty007_67
• Track 3 : Pipefish_71
• Track 4 : Mysterious_67
• Track 5 : Nangang_66, StinkyVeggy_66, DigitDog_67
• Track 6 : Thonko_67
• Track 7 : CloverMinnie_61
• Track 8 : NHagos_59
• Track 9 : Wooper_63
• Track 10 : CaiB_62, MakoManhole_60
• Track 11 : AnarQue_64

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

The start number called the most often in the published annotations is 22, it was called in 2 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AnarQue_64, CloverMinnie_61,

Genes that have the "Most Annotated" start but do not call it:
• Wooper_63,

Genes that do not have the "Most Annotated" start:
• CaiB_62, DigitDog_67, Eugenia_68, MakoManhole_60, Morty007_67, Mysterious_67, NHagos_59, Nangang_66, Pipefish_71, StinkyVeggy_66, Thonko_67,

Summary by start number:

Start 15:
• Found in 2 of 14 (14.3%) of genes in pham
• Manual Annotations of this start: 1 of 8
• Called 50.0% of time when present

• Phage (with cluster) where this start called: Pipefish_71 (B3),

Start 16:
• Found in 1 of 14 (7.1%) of genes in pham
• Manual Annotations of this start: 1 of 8
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Thonko_67 (B8),

Start 17:
• Found in 1 of 14 (7.1%) of genes in pham
• Manual Annotations of this start: 1 of 8
• Called 100.0% of time when present
• Phage (with cluster) where this start called: NHagos_59 (DR),

Start 22:
• Found in 3 of 14 (21.4%) of genes in pham
• Manual Annotations of this start: 2 of 8
• Called 66.7% of time when present
• Phage (with cluster) where this start called: AnarQue_64 (DR), CloverMinnie_61 (DR),

Start 23:
• Found in 5 of 14 (35.7%) of genes in pham
• Manual Annotations of this start: 2 of 8
• Called 60.0% of time when present
• Phage (with cluster) where this start called: CaiB_62 (DR), MakoManhole_60 (DR), Wooper_63 (DR),

Start 26:
• Found in 5 of 14 (35.7%) of genes in pham
• No Manual Annotations of this start.
• Called 60.0% of time when present
• Phage (with cluster) where this start called: DigitDog_67 (B5), Nangang_66 (B5), StinkyVeggy_66 (B5),

Start 27:
• Found in 1 of 14 (7.1%) of genes in pham
• Manual Annotations of this start: 1 of 8
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Morty007_67 (B3),

Start 28:
• Found in 1 of 14 (7.1%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Eugenia_68 (B1),

Start 29:
• Found in 1 of 14 (7.1%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Mysterious_67 (B5),

Summary by clusters:

There are 5 clusters represented in this pham: B5, B1, DR, B8, B3,

Info for manual annotations of cluster B3:
•Start number 15 was manually annotated 1 time for cluster B3.
•Start number 27 was manually annotated 1 time for cluster B3.

Info for manual annotations of cluster B8:
•Start number 16 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster DR:
•Start number 17 was manually annotated 1 time for cluster DR.
•Start number 22 was manually annotated 2 times for cluster DR.
•Start number 23 was manually annotated 2 times for cluster DR.

Gene Information:

Gene: AnarQue_64 Start: 52219, Stop: 52398, Start Num: 22
Candidate Starts for AnarQue_64:
(Start: 22 @52219 has 2 MA's), (Start: 23 @52228 has 2 MA's), (35, 52360), (39, 52387),

Gene: CaiB_62 Start: 52012, Stop: 52182, Start Num: 23
Candidate Starts for CaiB_62:
(Start: 23 @52012 has 2 MA's), (35, 52144), (39, 52171),

Gene: CloverMinnie_61 Start: 51166, Stop: 51345, Start Num: 22
Candidate Starts for CloverMinnie_61:
(Start: 22 @51166 has 2 MA's), (Start: 23 @51175 has 2 MA's), (35, 51307),

Gene: DigitDog_67 Start: 58467, Stop: 58649, Start Num: 26
Candidate Starts for DigitDog_67:
(7, 58365), (11, 58392), (13, 58401), (26, 58467), (33, 58548), (36, 58599), (38, 58614), (40, 58623), (41, 58635),

Gene: Eugenia_68 Start: 57577, Stop: 57729, Start Num: 28
Candidate Starts for Eugenia_68:
(9, 57457), (11, 57478), (13, 57487), (25, 57550), (28, 57577), (38, 57700),

Gene: MakoManhole_60 Start: 50530, Stop: 50700, Start Num: 23
Candidate Starts for MakoManhole_60:
(Start: 23 @50530 has 2 MA's), (35, 50662), (39, 50689),

Gene: Morty007_67 Start: 58277, Stop: 58441, Start Num: 27
Candidate Starts for Morty007_67:
(5, 58082), (14, 58208), (Start: 15 @58217 has 1 MA's), (18, 58226), (Start: 27 @58277 has 1 MA's), (37, 58403),

Gene: Mysterious_67 Start: 58447, Stop: 58593, Start Num: 29

Candidate Starts for Mysterious_67:
(11, 58336), (13, 58345), (24, 58405), (26, 58411), (29, 58447), (32, 58489), (36, 58543),

Gene: NHagos_59 Start: 49828, Stop: 50055, Start Num: 17
Candidate Starts for NHagos_59:
(Start: 17 @49828 has 1 MA's), (19, 49831), (20, 49837), (25, 49864), (34, 49987), (35, 49996), (39, 50023),

Gene: Nangang_66 Start: 58493, Stop: 58675, Start Num: 26
Candidate Starts for Nangang_66:
(7, 58391), (11, 58418), (13, 58427), (26, 58493), (33, 58574), (36, 58625), (38, 58640), (40, 58649), (41, 58661),

Gene: Pipefish_71 Start: 58442, Stop: 58660, Start Num: 15
Candidate Starts for Pipefish_71:
(4, 58295), (6, 58382), (10, 58400), (Start: 15 @58442 has 1 MA's), (18, 58451), (26, 58487), (30, 58529), (32, 58565), (37, 58622),

Gene: StinkyVeggy_66 Start: 58294, Stop: 58476, Start Num: 26
Candidate Starts for StinkyVeggy_66:
(7, 58192), (11, 58219), (13, 58228), (26, 58294), (33, 58375), (36, 58426), (38, 58441), (40, 58450), (41, 58462),

Gene: Thonko_67 Start: 56230, Stop: 56466, Start Num: 16
Candidate Starts for Thonko_67:
(1, 55804), (2, 55999), (3, 56032), (8, 56158), (12, 56191), (13, 56197), (Start: 16 @56230 has 1 MA's), (21, 56260), (30, 56326), (31, 56347), (32, 56362),

Gene: Wooper_63 Start: 51561, Stop: 51731, Start Num: 23
Candidate Starts for Wooper_63:
(Start: 22 @51552 has 2 MA's), (Start: 23 @51561 has 2 MA's), (35, 51693), (39, 51720),