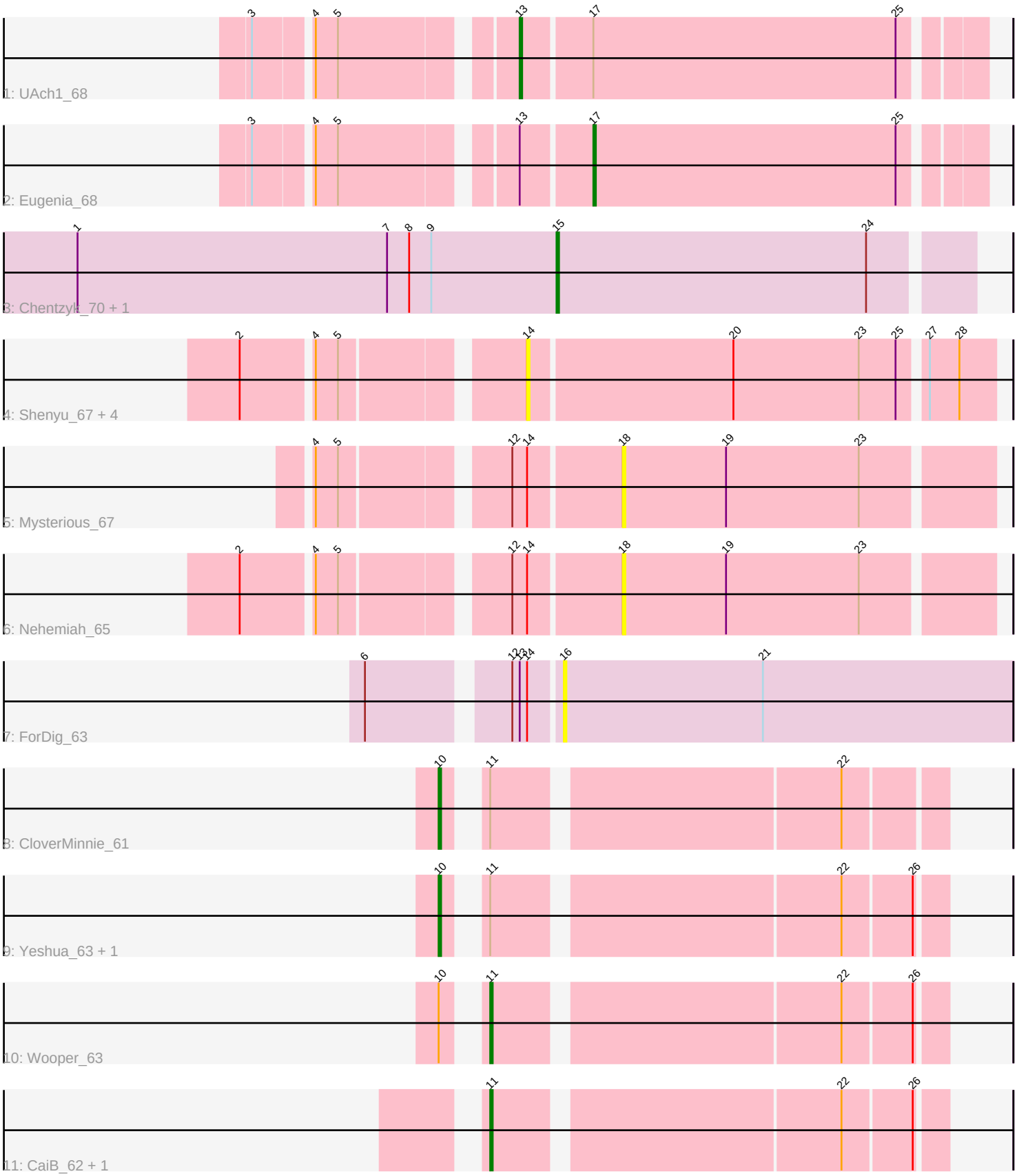
Pham 214705


1: UAch1_68
2: Eugenia_68
3: Chentzyk_70 + 1
4: Shenyu_67 + 4
5: Mysterious_67
6: Nehemiah_65
7: ForDig_63
8: CloverMinnie_61
9: Yeshua_63 + 1
10: Wooper_63
11: CaiB_62 + 1

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 214705 Report

This analysis was run 02/22/25 on database version 588.

Pham number 214705 has 18 members, 10 are drafts.

Phages represented in each track:
• Track 1 : UAch1_68
• Track 2 : Eugenia_68
• Track 3 : Chentzyk_70, Morty007_67
• Track 4 : Shenyu_67, KarasumaRum_66, Nangang_66, StinkyVeggy_66, DigitDog_67
• Track 5 : Mysterious_67
• Track 6 : Nehemiah_65
• Track 7 : ForDig_63
• Track 8 : CloverMinnie_61
• Track 9 : Yeshua_63, AnarQue_64
• Track 10 : Wooper_63
• Track 11 : CaiB_62, MakoManhole_59

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

The start number called the most often in the published annotations is 11, it was called in 3 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• CaiB_62, MakoManhole_59, Wooper_63,

Genes that have the "Most Annotated" start but do not call it:
• AnarQue_64, CloverMinnie_61, Yeshua_63,

Genes that do not have the "Most Annotated" start:
• Chentzyk_70, DigitDog_67, Eugenia_68, ForDig_63, KarasumaRum_66, Morty007_67, Mysterious_67, Nangang_66, Nehemiah_65, Shenyu_67, StinkyVeggy_66, UAch1_68,

Summary by start number:

Start 10:
• Found in 4 of 18 (22.2%) of genes in pham
• Manual Annotations of this start: 2 of 8

• Called 75.0% of time when present
• Phage (with cluster) where this start called: AnarQue_64 (DR), CloverMinnie_61 (DR), Yeshua_63 (DR),

Start 11:
• Found in 6 of 18 (33.3%) of genes in pham
• Manual Annotations of this start: 3 of 8
• Called 50.0% of time when present
• Phage (with cluster) where this start called: CaiB_62 (DR), MakoManhole_59 (DR), Wooper_63 (DR),

Start 13:
• Found in 3 of 18 (16.7%) of genes in pham
• Manual Annotations of this start: 1 of 8
• Called 33.3% of time when present
• Phage (with cluster) where this start called: UAch1_68 (B1),

Start 14:
• Found in 8 of 18 (44.4%) of genes in pham
• No Manual Annotations of this start.
• Called 62.5% of time when present
• Phage (with cluster) where this start called: DigitDog_67 (B5), KarasumaRum_66 (B5), Nangang_66 (B5), Shenyu_67 (B5), StinkyVeggy_66 (B5),

Start 15:
• Found in 2 of 18 (11.1%) 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: Chentzyk_70 (B3), Morty007_67 (B3),

Start 16:
• Found in 1 of 18 (5.6%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ForDig_63 (B6),

Start 17:
• Found in 2 of 18 (11.1%) 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: Eugenia_68 (B1),

Start 18:
• Found in 2 of 18 (11.1%) 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), Nehemiah_65 (B5),

Summary by clusters:

There are 5 clusters represented in this pham: B5, B6, DR, B1, B3,

Info for manual annotations of cluster B1:

•Start number 13 was manually annotated 1 time for cluster B1.
•Start number 17 was manually annotated 1 time for cluster B1.

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

Info for manual annotations of cluster DR:
•Start number 10 was manually annotated 2 times for cluster DR.
•Start number 11 was manually annotated 3 times for cluster DR.

Gene Information:

Gene: AnarQue_64 Start: 52219, Stop: 52398, Start Num: 10
Candidate Starts for AnarQue_64:
(Start: 10 @52219 has 2 MA's), (Start: 11 @52228 has 3 MA's), (22, 52360), (26, 52387),

Gene: CaiB_62 Start: 52012, Stop: 52182, Start Num: 11
Candidate Starts for CaiB_62:
(Start: 11 @52012 has 3 MA's), (22, 52144), (26, 52171),

Gene: Chentzyk_70 Start: 58320, Stop: 58484, Start Num: 15
Candidate Starts for Chentzyk_70:
(1, 58125), (7, 58251), (8, 58260), (9, 58269), (Start: 15 @58320 has 1 MA's), (24, 58446),

Gene: CloverMinnie_61 Start: 51166, Stop: 51345, Start Num: 10
Candidate Starts for CloverMinnie_61:
(Start: 10 @51166 has 2 MA's), (Start: 11 @51175 has 3 MA's), (22, 51307),

Gene: DigitDog_67 Start: 58467, Stop: 58649, Start Num: 14
Candidate Starts for DigitDog_67:
(2, 58365), (4, 58392), (5, 58401), (14, 58467), (20, 58548), (23, 58599), (25, 58614), (27, 58623), (28, 58635),

Gene: Eugenia_68 Start: 57577, Stop: 57729, Start Num: 17
Candidate Starts for Eugenia_68:
(3, 57457), (4, 57478), (5, 57487), (Start: 13 @57550 has 1 MA's), (Start: 17 @57577 has 1 MA's), (25, 57700),

Gene: ForDig_63 Start: 56660, Stop: 56842, Start Num: 16
Candidate Starts for ForDig_63:
(6, 56591), (12, 56642), (Start: 13 @56645 has 1 MA's), (14, 56648), (16, 56660), (21, 56741),

Gene: KarasumaRum_66 Start: 58294, Stop: 58476, Start Num: 14
Candidate Starts for KarasumaRum_66:
(2, 58192), (4, 58219), (5, 58228), (14, 58294), (20, 58375), (23, 58426), (25, 58441), (27, 58450), (28, 58462),

Gene: MakoManhole_59 Start: 50530, Stop: 50700, Start Num: 11
Candidate Starts for MakoManhole_59:

(Start: 11 @50530 has 3 MA's), (22, 50662), (26, 50689),

Gene: Morty007_67 Start: 58277, Stop: 58441, Start Num: 15
Candidate Starts for Morty007_67:
(1, 58082), (7, 58208), (8, 58217), (9, 58226), (Start: 15 @58277 has 1 MA's), (24, 58403),

Gene: Mysterious_67 Start: 58447, Stop: 58593, Start Num: 18
Candidate Starts for Mysterious_67:
(4, 58336), (5, 58345), (12, 58405), (14, 58411), (18, 58447), (19, 58489), (23, 58543),

Gene: Nangang_66 Start: 58493, Stop: 58675, Start Num: 14
Candidate Starts for Nangang_66:
(2, 58391), (4, 58418), (5, 58427), (14, 58493), (20, 58574), (23, 58625), (25, 58640), (27, 58649), (28, 58661),

Gene: Nehemiah_65 Start: 58285, Stop: 58431, Start Num: 18
Candidate Starts for Nehemiah_65:
(2, 58147), (4, 58174), (5, 58183), (12, 58243), (14, 58249), (18, 58285), (19, 58327), (23, 58381),

Gene: Shenyu_67 Start: 58862, Stop: 59044, Start Num: 14
Candidate Starts for Shenyu_67:
(2, 58760), (4, 58787), (5, 58796), (14, 58862), (20, 58943), (23, 58994), (25, 59009), (27, 59018), (28, 59030),

Gene: StinkyVeggy_66 Start: 58294, Stop: 58476, Start Num: 14
Candidate Starts for StinkyVeggy_66:
(2, 58192), (4, 58219), (5, 58228), (14, 58294), (20, 58375), (23, 58426), (25, 58441), (27, 58450), (28, 58462),

Gene: UAch1_68 Start: 57127, Stop: 57306, Start Num: 13
Candidate Starts for UAch1_68:
(3, 57034), (4, 57055), (5, 57064), (Start: 13 @57127 has 1 MA's), (Start: 17 @57154 has 1 MA's), (25, 57277),

Gene: Wooper_63 Start: 51561, Stop: 51731, Start Num: 11
Candidate Starts for Wooper_63:
(Start: 10 @51552 has 2 MA's), (Start: 11 @51561 has 3 MA's), (22, 51693), (26, 51720),

Gene: Yeshua_63 Start: 51529, Stop: 51708, Start Num: 10
Candidate Starts for Yeshua_63:
(Start: 10 @51529 has 2 MA's), (Start: 11 @51538 has 3 MA's), (22, 51670), (26, 51697),