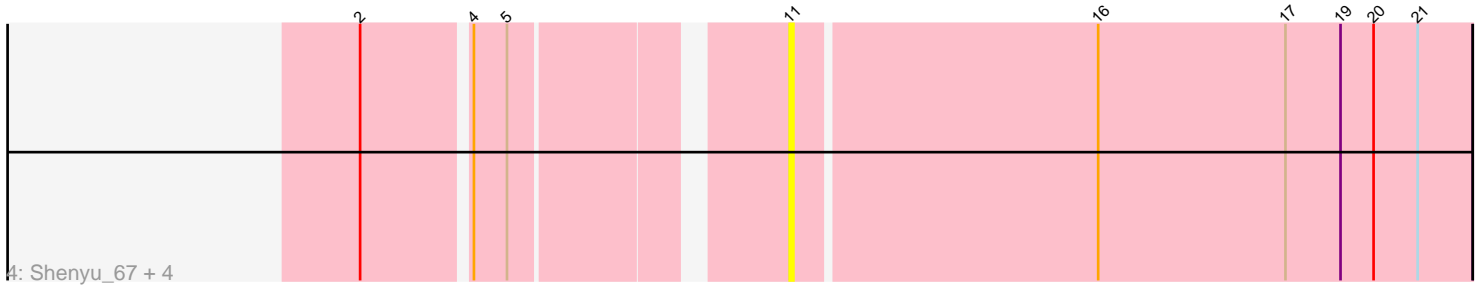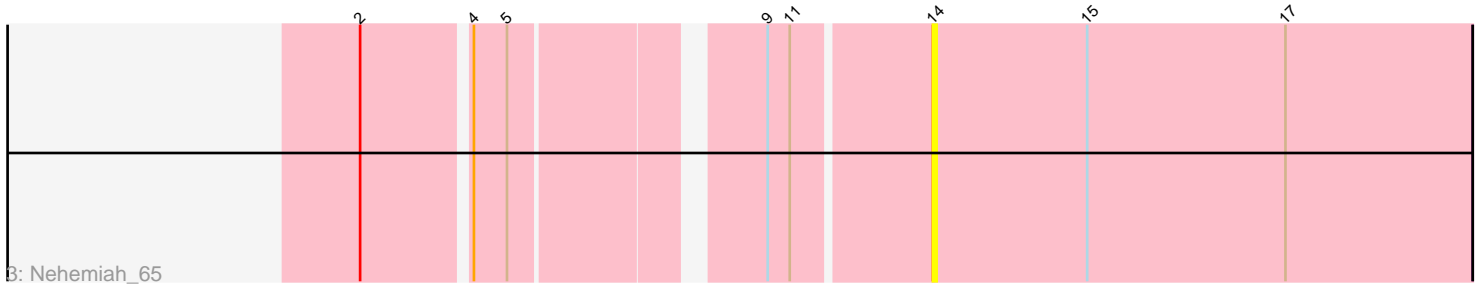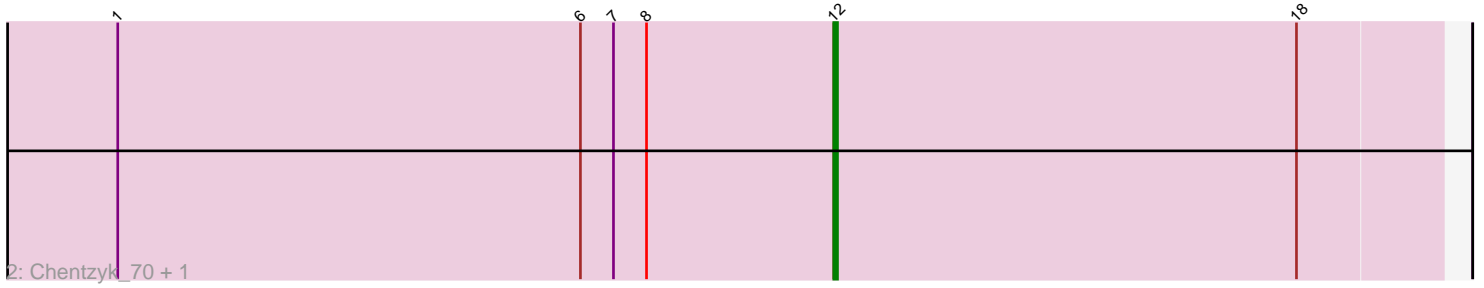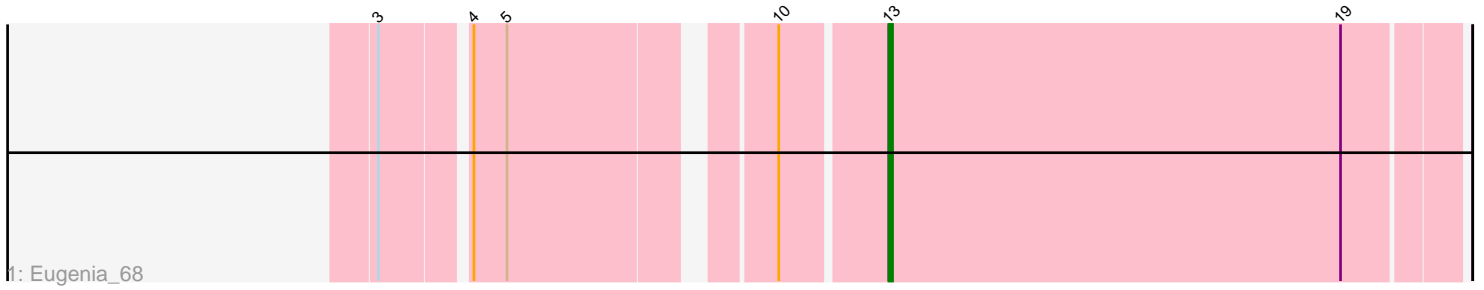# Pham 218519

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 218519 Report

This analysis was run 03/28/25 on database version 593.

Pham number 218519 has 10 members, 8 are drafts.

Phages represented in each track:
• Track 1 : Eugenia_68
• Track 2 : Chentzyk_70, Morty007_67
• Track 3 : Nehemiah_65
• Track 4 : Shenyu_67, KarasumaRum_66, Nangang_66, StinkyVeggy_66, DigitDog_67
• Track 5 : Mysterious_67

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

The start number called the most often in the published annotations is 13, it was called in 1 of the 2 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Eugenia_68,

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

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

Summary by start number:

Start 11:
• Found in 7 of 10 (70.0%) of genes in pham
• No Manual Annotations of this start.
• Called 71.4% 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 12:
• Found in 2 of 10 (20.0%) of genes in pham
• Manual Annotations of this start: 1 of 2

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Chentzyk_70 (B3), Morty007_67 (B3),

Start 13:
• Found in 1 of 10 (10.0%) of genes in pham
• Manual Annotations of this start: 1 of 2
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Eugenia_68 (B1),

Start 14:
• Found in 2 of 10 (20.0%) 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 3 clusters represented in this pham: B5, B1, B3,

Info for manual annotations of cluster B1:
•Start number 13 was manually annotated 1 time for cluster B1.

Info for manual annotations of cluster B3:
•Start number 12 was manually annotated 1 time for cluster B3.

Gene Information:
Gene: Chentzyk_70 Start: 58320, Stop: 58484, Start Num: 12
Candidate Starts for Chentzyk_70:
(1, 58125), (6, 58251), (7, 58260), (8, 58269), (Start: 12 @58320 has 1 MA's), (18, 58446),

Gene: DigitDog_67 Start: 58467, Stop: 58649, Start Num: 11
Candidate Starts for DigitDog_67:
(2, 58365), (4, 58392), (5, 58401), (11, 58467), (16, 58548), (17, 58599), (19, 58614), (20, 58623), (21, 58635),

Gene: Eugenia_68 Start: 57577, Stop: 57729, Start Num: 13
Candidate Starts for Eugenia_68:
(3, 57457), (4, 57478), (5, 57487), (10, 57550), (Start: 13 @57577 has 1 MA's), (19, 57700),

Gene: KarasumaRum_66 Start: 58294, Stop: 58476, Start Num: 11
Candidate Starts for KarasumaRum_66:
(2, 58192), (4, 58219), (5, 58228), (11, 58294), (16, 58375), (17, 58426), (19, 58441), (20, 58450), (21, 58462),

Gene: Morty007_67 Start: 58277, Stop: 58441, Start Num: 12
Candidate Starts for Morty007_67:
(1, 58082), (6, 58208), (7, 58217), (8, 58226), (Start: 12 @58277 has 1 MA's), (18, 58403),

Gene: Mysterious_67 Start: 58447, Stop: 58593, Start Num: 14

Candidate Starts for Mysterious_67:
(4, 58336), (5, 58345), (9, 58405), (11, 58411), (14, 58447), (15, 58489), (17, 58543),

Gene: Nangang_66 Start: 58493, Stop: 58675, Start Num: 11
Candidate Starts for Nangang_66:
(2, 58391), (4, 58418), (5, 58427), (11, 58493), (16, 58574), (17, 58625), (19, 58640), (20, 58649), (21, 58661),

Gene: Nehemiah_65 Start: 58285, Stop: 58431, Start Num: 14
Candidate Starts for Nehemiah_65:
(2, 58147), (4, 58174), (5, 58183), (9, 58243), (11, 58249), (14, 58285), (15, 58327), (17, 58381),

Gene: Shenyu_67 Start: 58862, Stop: 59044, Start Num: 11
Candidate Starts for Shenyu_67:
(2, 58760), (4, 58787), (5, 58796), (11, 58862), (16, 58943), (17, 58994), (19, 59009), (20, 59018), (21, 59030),

Gene: StinkyVeggy_66 Start: 58294, Stop: 58476, Start Num: 11
Candidate Starts for StinkyVeggy_66:
(2, 58192), (4, 58219), (5, 58228), (11, 58294), (16, 58375), (17, 58426), (19, 58441), (20, 58450), (21, 58462),