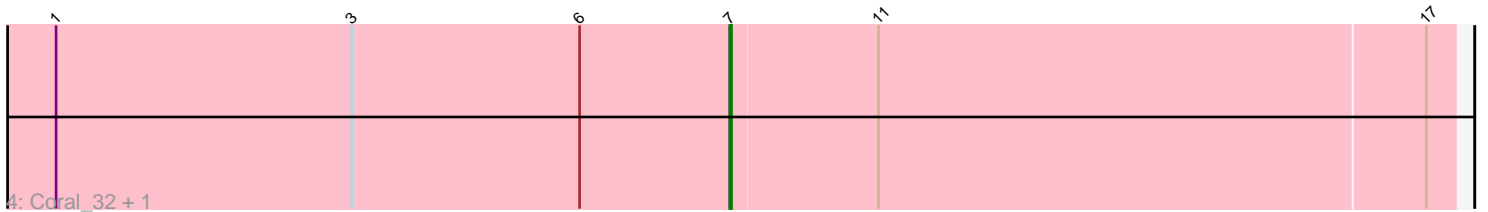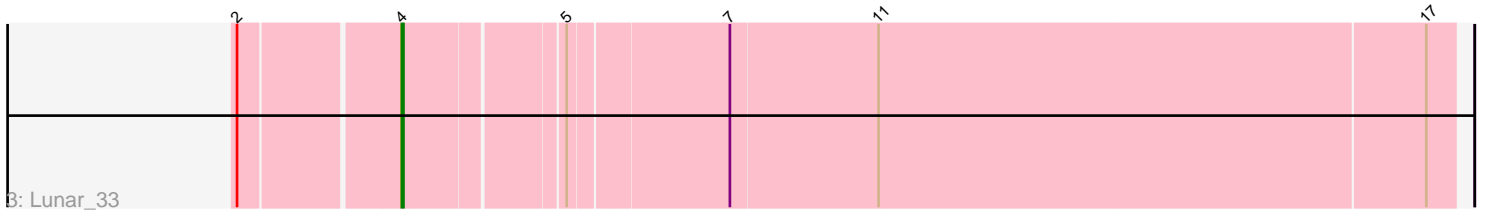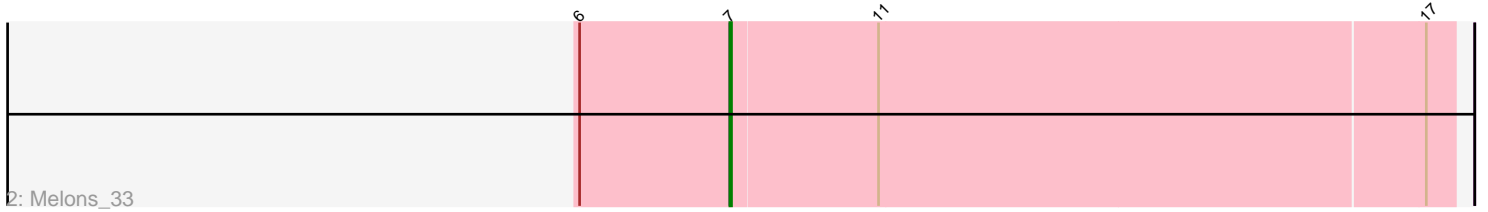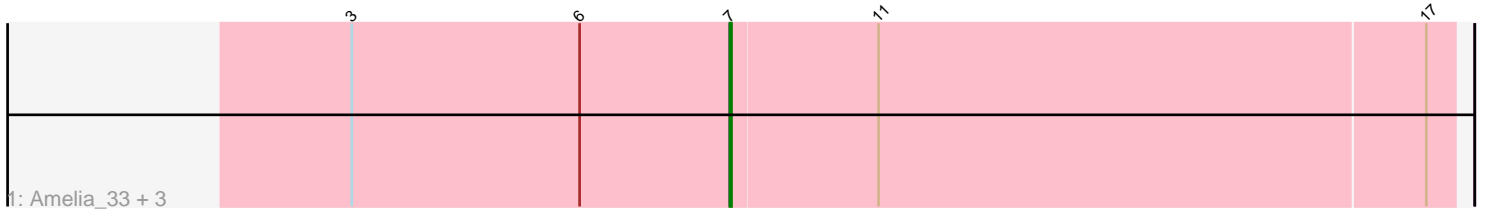# Pham 216731

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 216731 Report

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

Pham number 216731 has 12 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Amelia_33, Kepler_33, HannahPhantana_33, Daob_34
• Track 2 : Melons_33
• Track 3 : Lunar_33
• Track 4 : Coral_32, Cote_34
• Track 5 : Renna12_30
• Track 6 : Babushka_30
• Track 7 : AllBusiness_47, Schism_52

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

The start number called the most often in the published annotations is 7, it was called in 7 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Amelia_33, Coral_32, Cote_34, Daob_34, HannahPhantana_33, Kepler_33, Melons_33,

Genes that have the "Most Annotated" start but do not call it:
• Lunar_33,

Genes that do not have the "Most Annotated" start:
• AllBusiness_47, Babushka_30, Renna12_30, Schism_52,

Summary by start number:

Start 4:
• Found in 1 of 12 (8.3%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Lunar_33 (AS2),

Start 7:
• Found in 8 of 12 (66.7%) of genes in pham
• Manual Annotations of this start: 7 of 9

• Called 87.5% of time when present
• Phage (with cluster) where this start called: Amelia_33 (AS2), Coral_32 (AS2), Cote_34 (AS2), Daob_34 (AS2), HannahPhantana_33 (AS2), Kepler_33 (AS2), Melons_33 (AS2),

Start 9:
• Found in 2 of 12 (16.7%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AllBusiness_47 (FF), Schism_52 (FF),

Start 11:
• Found in 12 of 12 (100.0%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 8.3% of time when present
• Phage (with cluster) where this start called: Renna12_30 (AS3),

Start 12:
• Found in 2 of 12 (16.7%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Babushka_30 (AS3),

Summary by clusters:

There are 3 clusters represented in this pham: AS3, AS2, FF,

Info for manual annotations of cluster AS2:
•Start number 4 was manually annotated 1 time for cluster AS2.
•Start number 7 was manually annotated 7 times for cluster AS2.

Info for manual annotations of cluster AS3:
•Start number 11 was manually annotated 1 time for cluster AS3.

Gene Information:
Gene: AllBusiness_47 Start: 35006, Stop: 35380, Start Num: 9
Candidate Starts for AllBusiness_47:
(8, 34973), (9, 35006), (10, 35018), (Start: 11 @35021 has 1 MA's), (13, 35054), (14, 35072), (15, 35120), (16, 35279),

Gene: Amelia_33 Start: 21955, Stop: 21515, Start Num: 7
Candidate Starts for Amelia_33:
(3, 22189), (6, 22048), (Start: 7 @21955 has 7 MA's), (Start: 11 @21865 has 1 MA's), (17, 21532),

Gene: Babushka_30 Start: 21102, Stop: 20782, Start Num: 12
Candidate Starts for Babushka_30:
(Start: 11 @21123 has 1 MA's), (12, 21102),

Gene: Coral_32 Start: 21794, Stop: 21354, Start Num: 7

Candidate Starts for Coral_32:
(1, 22211), (3, 22028), (6, 21887), (Start: 7 @21794 has 7 MA's), (Start: 11 @21704 has 1 MA's), (17, 21371),

Gene: Cote_34 Start: 22271, Stop: 21831, Start Num: 7
Candidate Starts for Cote_34:
(1, 22688), (3, 22505), (6, 22364), (Start: 7 @22271 has 7 MA's), (Start: 11 @22181 has 1 MA's), (17, 21848),

Gene: Daob_34 Start: 22289, Stop: 21849, Start Num: 7
Candidate Starts for Daob_34:
(3, 22523), (6, 22382), (Start: 7 @22289 has 7 MA's), (Start: 11 @22199 has 1 MA's), (17, 21866),

Gene: HannahPhantana_33 Start: 21951, Stop: 21511, Start Num: 7
Candidate Starts for HannahPhantana_33:
(3, 22185), (6, 22044), (Start: 7 @21951 has 7 MA's), (Start: 11 @21861 has 1 MA's), (17, 21528),

Gene: Kepler_33 Start: 22238, Stop: 21798, Start Num: 7
Candidate Starts for Kepler_33:
(3, 22472), (6, 22331), (Start: 7 @22238 has 7 MA's), (Start: 11 @22148 has 1 MA's), (17, 21815),

Gene: Lunar_33 Start: 22122, Stop: 21499, Start Num: 4
Candidate Starts for Lunar_33:
(2, 22215), (Start: 4 @22122 has 1 MA's), (5, 22032), (Start: 7 @21939 has 7 MA's), (Start: 11 @21849 has 1 MA's), (17, 21516),

Gene: Melons_33 Start: 21939, Stop: 21499, Start Num: 7
Candidate Starts for Melons_33:
(6, 22032), (Start: 7 @21939 has 7 MA's), (Start: 11 @21849 has 1 MA's), (17, 21516),

Gene: Renna12_30 Start: 21228, Stop: 20887, Start Num: 11
Candidate Starts for Renna12_30:
(Start: 11 @21228 has 1 MA's), (12, 21207),

Gene: Schism_52 Start: 34715, Stop: 35089, Start Num: 9
Candidate Starts for Schism_52:
(8, 34682), (9, 34715), (10, 34727), (Start: 11 @34730 has 1 MA's), (13, 34763), (14, 34781), (15, 34829), (16, 34988),