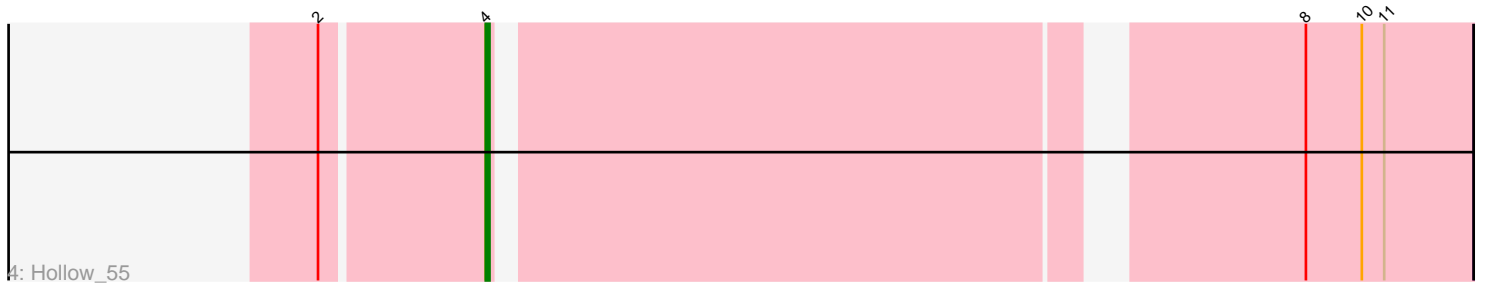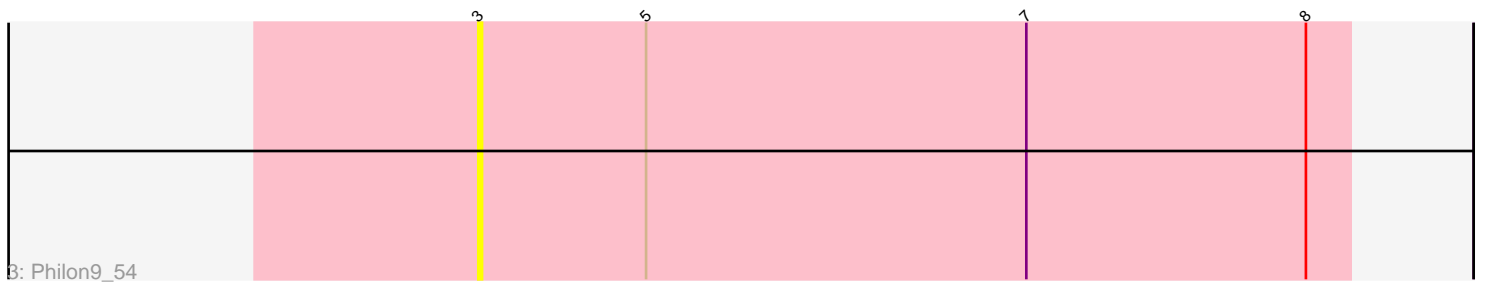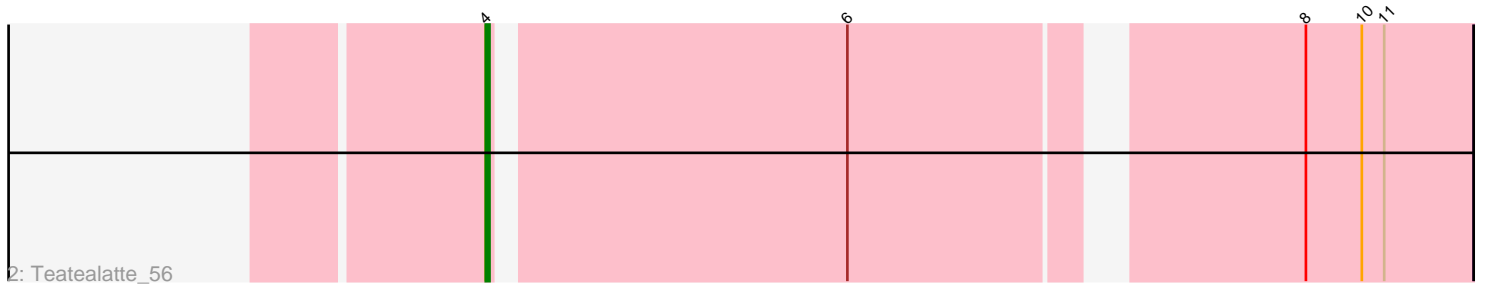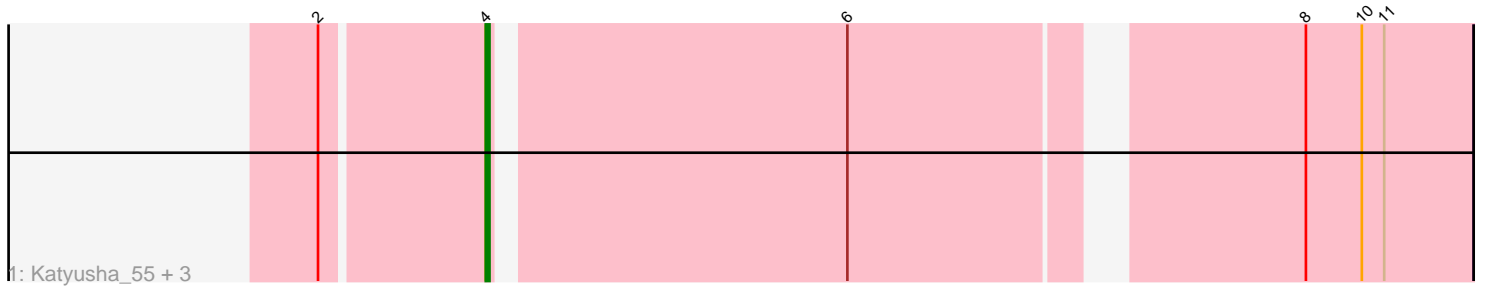# Pham 6437

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 6437 Report

This analysis was run 07/09/24 on database version 566.

Pham number 6437 has 8 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Katyusha_55, Benczkowski14_55, Kvothe_54, Niagara_55
• Track 2 : Teatealatte_56
• Track 3 : Philon9_54
• Track 4 : Hollow_55
• Track 5 : Demosthenes_54

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

The start number called the most often in the published annotations is 4, it was called in 7 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Benczkowski14_55, Demosthenes_54, Hollow_55, Katyusha_55, Kvothe_54, Niagara_55, Teatealatte_56,

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

Genes that do not have the "Most Annotated" start:
• Philon9_54,

Summary by start number:

Start 3:
• Found in 1 of 8 (12.5%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Philon9_54 (CS4),

Start 4:
• Found in 7 of 8 (87.5%) of genes in pham
• Manual Annotations of this start: 7 of 7
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Benczkowski14_55 (CS4), Demosthenes_54 (CS4), Hollow_55 (CS4), Katyusha_55 (CS4), Kvothe_54 (CS4), Niagara_55 (CS4), Teatealatte_56 (CS4),

Summary by clusters:

There is one cluster represented in this pham: CS4

Info for manual annotations of cluster CS4:
•Start number 4 was manually annotated 7 times for cluster CS4.

Gene Information:
Gene: Benczkowski14_55 Start: 51375, Stop: 51133, Start Num: 4
Candidate Starts for Benczkowski14_55:
(2, 51417), (Start: 4 @51375 has 7 MA's), (6, 51285), (8, 51177), (10, 51162), (11, 51156),

Gene: Demosthenes_54 Start: 51077, Stop: 50838, Start Num: 4
Candidate Starts for Demosthenes_54:
(1, 51200), (Start: 4 @51077 has 7 MA's), (6, 50990), (8, 50882), (9, 50870), (10, 50867), (11, 50861),

Gene: Hollow_55 Start: 51556, Stop: 51314, Start Num: 4
Candidate Starts for Hollow_55:
(2, 51598), (Start: 4 @51556 has 7 MA's), (8, 51358), (10, 51343), (11, 51337),

Gene: Katyusha_55 Start: 51375, Stop: 51133, Start Num: 4
Candidate Starts for Katyusha_55:
(2, 51417), (Start: 4 @51375 has 7 MA's), (6, 51285), (8, 51177), (10, 51162), (11, 51156),

Gene: Kvothe_54 Start: 51274, Stop: 51032, Start Num: 4
Candidate Starts for Kvothe_54:
(2, 51316), (Start: 4 @51274 has 7 MA's), (6, 51184), (8, 51076), (10, 51061), (11, 51055),

Gene: Niagara_55 Start: 51365, Stop: 51123, Start Num: 4
Candidate Starts for Niagara_55:
(2, 51407), (Start: 4 @51365 has 7 MA's), (6, 51275), (8, 51167), (10, 51152), (11, 51146),

Gene: Philon9_54 Start: 52238, Stop: 52005, Start Num: 3
Candidate Starts for Philon9_54:
(3, 52238), (5, 52193), (7, 52091), (8, 52016),

Gene: Teatealatte_56 Start: 51277, Stop: 51035, Start Num: 4
Candidate Starts for Teatealatte_56:
(Start: 4 @51277 has 7 MA's), (6, 51187), (8, 51079), (10, 51064), (11, 51058),