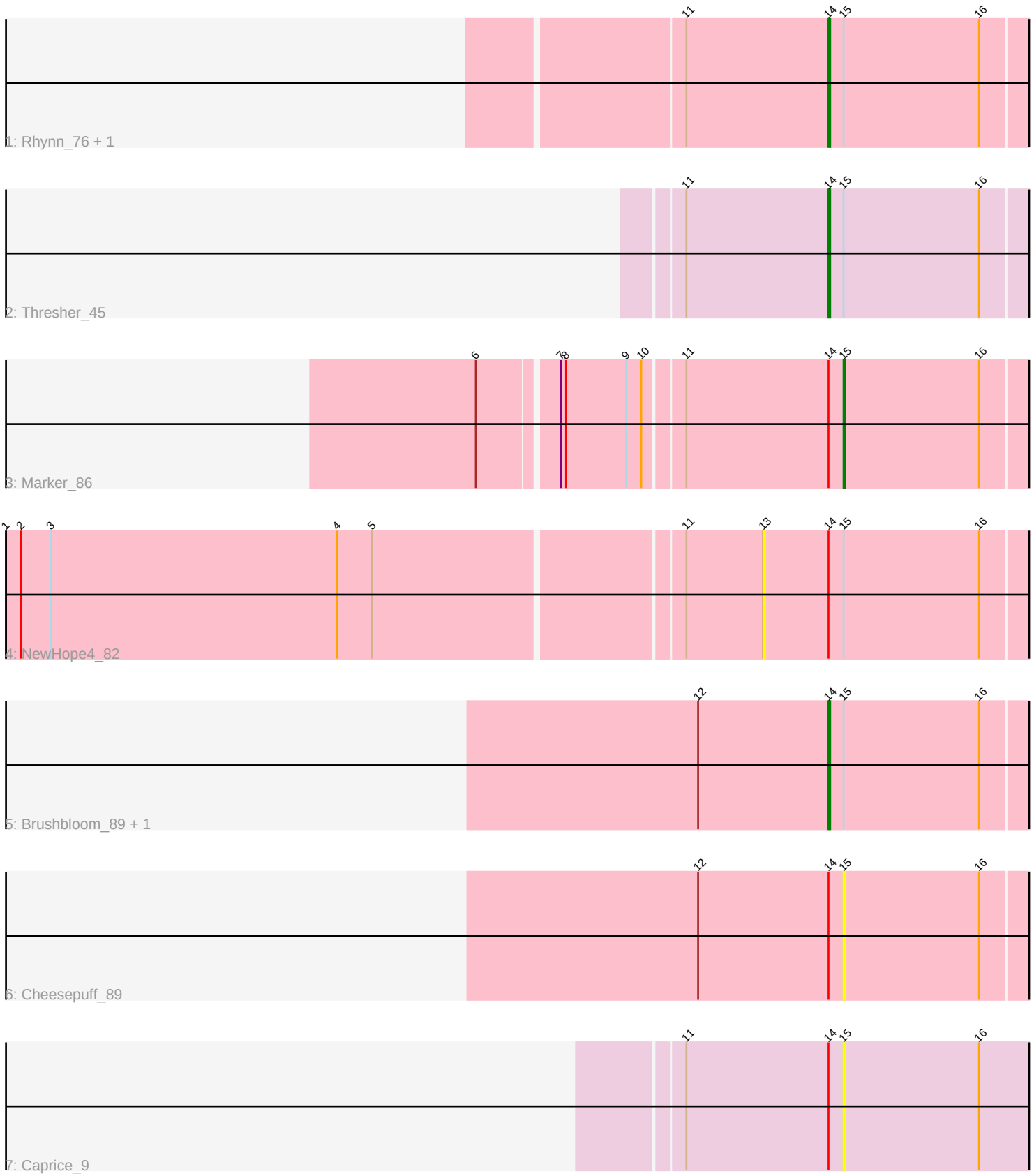
Pham 222062


11
14
15
16
1: Rhynn_76 + 1
11
14
15
16
2: Thresher_45
6
7
8
9
10
11
14
15
16
3: Marker_86
1
2
3
4
5
11
13
14
15
16
4: NewHope4_82
12
14
15
16
5: Brushbloom_89 + 1
12
14
15
16
6: Cheesepuff_89
11
14
15
16
7: Caprice_9

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 222062 Report

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

Pham number 222062 has 9 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Rhynn_76, Sumter_77
• Track 2 : Thresher_45
• Track 3 : Marker_86
• Track 4 : NewHope4_82
• Track 5 : Brushbloom_89, Zeuska_65
• Track 6 : Cheesepuff_89
• Track 7 : Caprice_9

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

The start number called the most often in the published annotations is 14, it was called in 4 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Brushbloom_89, Rhynn_76, Sumter_77, Thresher_45, Zeuska_65,

Genes that have the "Most Annotated" start but do not call it:
• Caprice_9, Cheesepuff_89, Marker_86, NewHope4_82,

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

Summary by start number:

Start 13:
• Found in 1 of 9 (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: NewHope4_82 (F1),

Start 14:
• Found in 9 of 9 (100.0%) of genes in pham
• Manual Annotations of this start: 4 of 5
• Called 55.6% of time when present

• Phage (with cluster) where this start called: Brushbloom_89 (F1), Rhynn_76 (A1), Sumter_77 (A1), Thresher_45 (E), Zeuska_65 (A1),

Start 15:
• Found in 9 of 9 (100.0%) of genes in pham
• Manual Annotations of this start: 1 of 5
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Caprice_9 (S), Cheesepuff_89 (F1), Marker_86 (F1),

Summary by clusters:

There are 4 clusters represented in this pham: A1, F1, S, E,

Info for manual annotations of cluster A1:
•Start number 14 was manually annotated 3 times for cluster A1.

Info for manual annotations of cluster E:
•Start number 14 was manually annotated 1 time for cluster E.

Info for manual annotations of cluster F1:
•Start number 15 was manually annotated 1 time for cluster F1.

Gene Information:

Gene: Brushbloom_89 Start: 50383, Stop: 50511, Start Num: 14
Candidate Starts for Brushbloom_89:
(12, 50305), (Start: 14 @50383 has 4 MA's), (Start: 15 @50392 has 1 MA's), (16, 50473),

Gene: Caprice_9 Start: 3012, Stop: 3137, Start Num: 15
Candidate Starts for Caprice_9:
(11, 2919), (Start: 14 @3003 has 4 MA's), (Start: 15 @3012 has 1 MA's), (16, 3093),

Gene: Cheesepuff_89 Start: 48552, Stop: 48671, Start Num: 15
Candidate Starts for Cheesepuff_89:
(12, 48465), (Start: 14 @48543 has 4 MA's), (Start: 15 @48552 has 1 MA's), (16, 48633),

Gene: Marker_86 Start: 49284, Stop: 49403, Start Num: 15
Candidate Starts for Marker_86:
(6, 49080), (7, 49122), (8, 49125), (9, 49161), (10, 49170), (11, 49191), (Start: 14 @49275 has 4 MA's), (Start: 15 @49284 has 1 MA's), (16, 49365),

Gene: NewHope4_82 Start: 47405, Stop: 47572, Start Num: 13
Candidate Starts for NewHope4_82:
(1, 46964), (2, 46973), (3, 46991), (4, 47162), (5, 47183), (11, 47360), (13, 47405), (Start: 14 @47444 has 4 MA's), (Start: 15 @47453 has 1 MA's), (16, 47534),

Gene: Rhynn_76 Start: 47813, Stop: 47685, Start Num: 14
Candidate Starts for Rhynn_76:
(11, 47897), (Start: 14 @47813 has 4 MA's), (Start: 15 @47804 has 1 MA's), (16, 47723),

Gene: Sumter_77 Start: 48675, Stop: 48547, Start Num: 14
Candidate Starts for Sumter_77:
(11, 48759), (Start: 14 @48675 has 4 MA's), (Start: 15 @48666 has 1 MA's), (16, 48585),

Gene: Thresher_45 Start: 36200, Stop: 36072, Start Num: 14
Candidate Starts for Thresher_45:
(11, 36284), (Start: 14 @36200 has 4 MA's), (Start: 15 @36191 has 1 MA's), (16, 36110),

Gene: Zeuska_65 Start: 43230, Stop: 43102, Start Num: 14
Candidate Starts for Zeuska_65:
(12, 43308), (Start: 14 @43230 has 4 MA's), (Start: 15 @43221 has 1 MA's), (16, 43140),