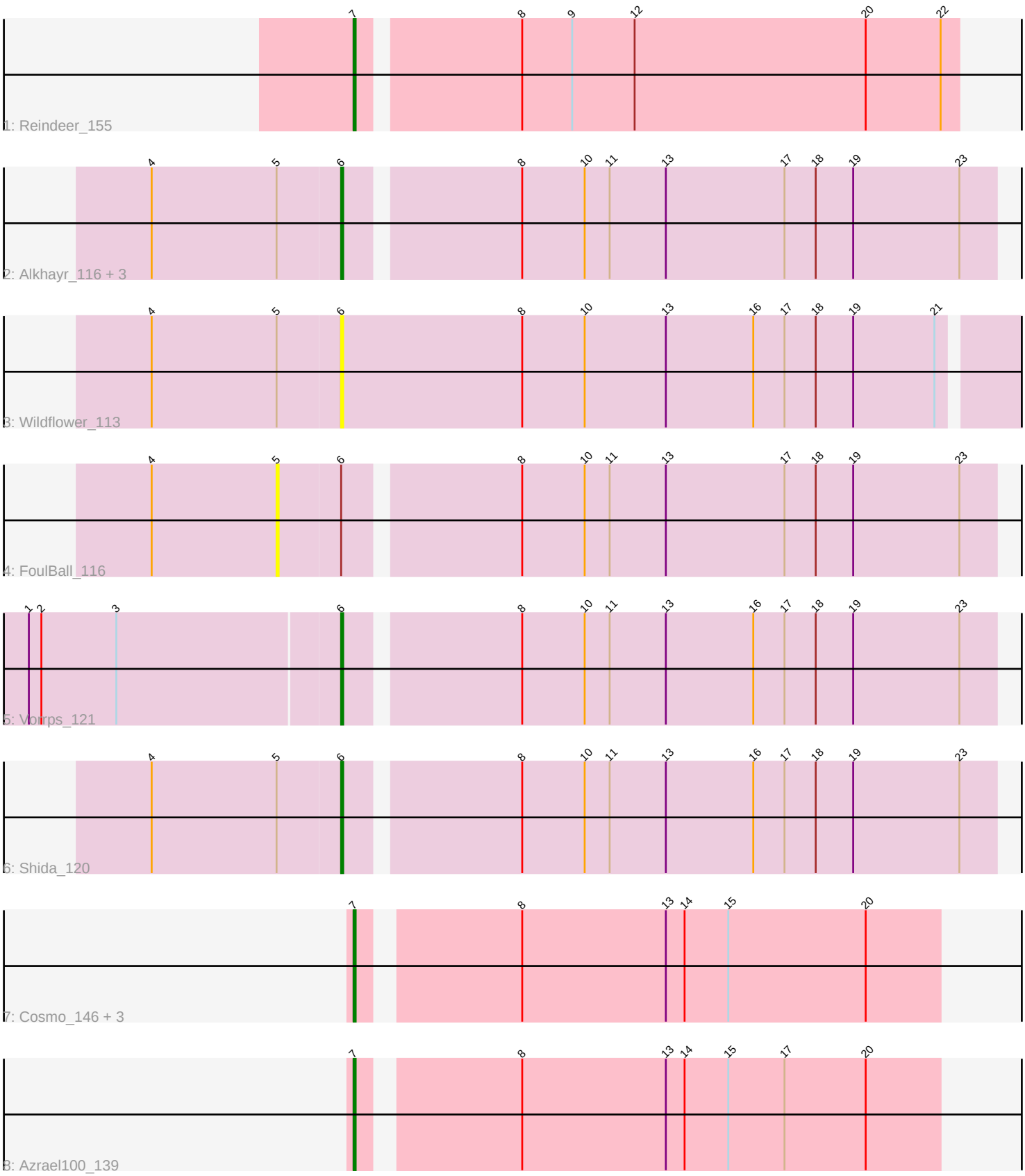
Pham 87514


7
8
9
12
20
22
1: Reindeer_155
4
5
6
8
10
11
13
17
18
19
23
2: Alkhayr_116 + 3
4
5
6
8
10
13
16
17
18
19
21
3: Wildflower_113
4
5
6
8
10
11
13
17
18
19
23
4: FoulBall_116
1
2
3
6
8
10
11
13
16
17
18
19
23
5: Vorrps_121
4
5
6
8
10
11
13
16
17
18
19
23
6: Shida_120
7
8
13
14
15
20
7: Cosmo_146 + 3
7
8
13
14
15
17
20
8: Azrael100_139

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 87514 Report

This analysis was run 04/28/24 on database version 559.

Pham number 87514 has 14 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Reindeer_155
• Track 2 : Alkhayr_116, Schuy_117, MadKillah_124, Bora_119
• Track 3 : Wildflower_113
• Track 4 : FoulBall_116
• Track 5 : Vorrps_121
• Track 6 : Shida_120
• Track 7 : Cosmo_146, MaryV_132, EniyanLRS_139, Wildcat_146
• Track 8 : Azrael100_139

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 6 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Azrael100_139, Cosmo_146, EniyanLRS_139, MaryV_132, Reindeer_155, Wildcat_146,

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

Genes that do not have the "Most Annotated" start:
• Alkhayr_116, Bora_119, FoulBall_116, MadKillah_124, Schuy_117, Shida_120, Vorrps_121, Wildflower_113,

Summary by start number:

Start 5:
• Found in 7 of 14 (50.0%) of genes in pham
• No Manual Annotations of this start.
• Called 14.3% of time when present
• Phage (with cluster) where this start called: FoulBall_116 (O),

Start 6:

• Found in 8 of 14 (57.1%) of genes in pham
• Manual Annotations of this start: 3 of 9
• Called 87.5% of time when present
• Phage (with cluster) where this start called: Alkhayr_116 (O), Bora_119 (O), MadKillah_124 (O), Schuy_117 (O), Shida_120 (O), Vorrps_121 (O), Wildflower_113 (O),

Start 7:
• Found in 6 of 14 (42.9%) of genes in pham
• Manual Annotations of this start: 6 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Azrael100_139 (V), Cosmo_146 (V), EniyanLRS_139 (V), MaryV_132 (V), Reindeer_155 (M1), Wildcat_146 (V),

Summary by clusters:

There are 3 clusters represented in this pham: M1, O, V,

Info for manual annotations of cluster M1:
•Start number 7 was manually annotated 1 time for cluster M1.

Info for manual annotations of cluster O:
•Start number 6 was manually annotated 3 times for cluster O.

Info for manual annotations of cluster V:
•Start number 7 was manually annotated 5 times for cluster V.

Gene Information:

Gene: Alkhayr_116 Start: 67753, Stop: 67448, Start Num: 6
Candidate Starts for Alkhayr_116:
(4, 67843), (5, 67783), (Start: 6 @67753 has 3 MA's), (8, 67675), (10, 67645), (11, 67633), (13, 67606), (17, 67549), (18, 67534), (19, 67516), (23, 67465),

Gene: Azrael100_139 Start: 68294, Stop: 68025, Start Num: 7
Candidate Starts for Azrael100_139:
(Start: 7 @68294 has 6 MA's), (8, 68225), (13, 68156), (14, 68147), (15, 68126), (17, 68099), (20, 68060),

Gene: Bora_119 Start: 68437, Stop: 68132, Start Num: 6
Candidate Starts for Bora_119:
(4, 68527), (5, 68467), (Start: 6 @68437 has 3 MA's), (8, 68359), (10, 68329), (11, 68317), (13, 68290), (17, 68233), (18, 68218), (19, 68200), (23, 68149),

Gene: Cosmo_146 Start: 68458, Stop: 68189, Start Num: 7
Candidate Starts for Cosmo_146:
(Start: 7 @68458 has 6 MA's), (8, 68389), (13, 68320), (14, 68311), (15, 68290), (20, 68224),

Gene: EniyanLRS_139 Start: 68799, Stop: 68530, Start Num: 7
Candidate Starts for EniyanLRS_139:
(Start: 7 @68799 has 6 MA's), (8, 68730), (13, 68661), (14, 68652), (15, 68631), (20, 68565),

Gene: FoulBall_116 Start: 68066, Stop: 67731, Start Num: 5
Candidate Starts for FoulBall_116:
(4, 68126), (5, 68066), (Start: 6 @68036 has 3 MA's), (8, 67958), (10, 67928), (11, 67916), (13, 67889), (17, 67832), (18, 67817), (19, 67799), (23, 67748),

Gene: MadKillah_124 Start: 68106, Stop: 67801, Start Num: 6
Candidate Starts for MadKillah_124:
(4, 68196), (5, 68136), (Start: 6 @68106 has 3 MA's), (8, 68028), (10, 67998), (11, 67986), (13, 67959), (17, 67902), (18, 67887), (19, 67869), (23, 67818),

Gene: MaryV_132 Start: 66645, Stop: 66376, Start Num: 7
Candidate Starts for MaryV_132:
(Start: 7 @66645 has 6 MA's), (8, 66576), (13, 66507), (14, 66498), (15, 66477), (20, 66411),

Gene: Reindeer_155 Start: 79602, Stop: 79321, Start Num: 7
Candidate Starts for Reindeer_155:
(Start: 7 @79602 has 6 MA's), (8, 79530), (9, 79506), (12, 79476), (20, 79365), (22, 79329),

Gene: Schuy_117 Start: 67815, Stop: 67510, Start Num: 6
Candidate Starts for Schuy_117:
(4, 67905), (5, 67845), (Start: 6 @67815 has 3 MA's), (8, 67737), (10, 67707), (11, 67695), (13, 67668), (17, 67611), (18, 67596), (19, 67578), (23, 67527),

Gene: Shida_120 Start: 68317, Stop: 68012, Start Num: 6
Candidate Starts for Shida_120:
(4, 68407), (5, 68347), (Start: 6 @68317 has 3 MA's), (8, 68239), (10, 68209), (11, 68197), (13, 68170), (16, 68128), (17, 68113), (18, 68098), (19, 68080), (23, 68029),

Gene: Vorrps_121 Start: 68657, Stop: 68352, Start Num: 6
Candidate Starts for Vorrps_121:
(1, 68804), (2, 68798), (3, 68762), (Start: 6 @68657 has 3 MA's), (8, 68579), (10, 68549), (11, 68537), (13, 68510), (16, 68468), (17, 68453), (18, 68438), (19, 68420), (23, 68369),

Gene: Wildcat_146 Start: 68538, Stop: 68269, Start Num: 7
Candidate Starts for Wildcat_146:
(Start: 7 @68538 has 6 MA's), (8, 68469), (13, 68400), (14, 68391), (15, 68370), (20, 68304),

Gene: Wildflower_113 Start: 66294, Stop: 65944, Start Num: 6
Candidate Starts for Wildflower_113:
(4, 66384), (5, 66324), (Start: 6 @66294 has 3 MA's), (8, 66207), (10, 66177), (13, 66138), (16, 66096), (17, 66081), (18, 66066), (19, 66048), (21, 66009),