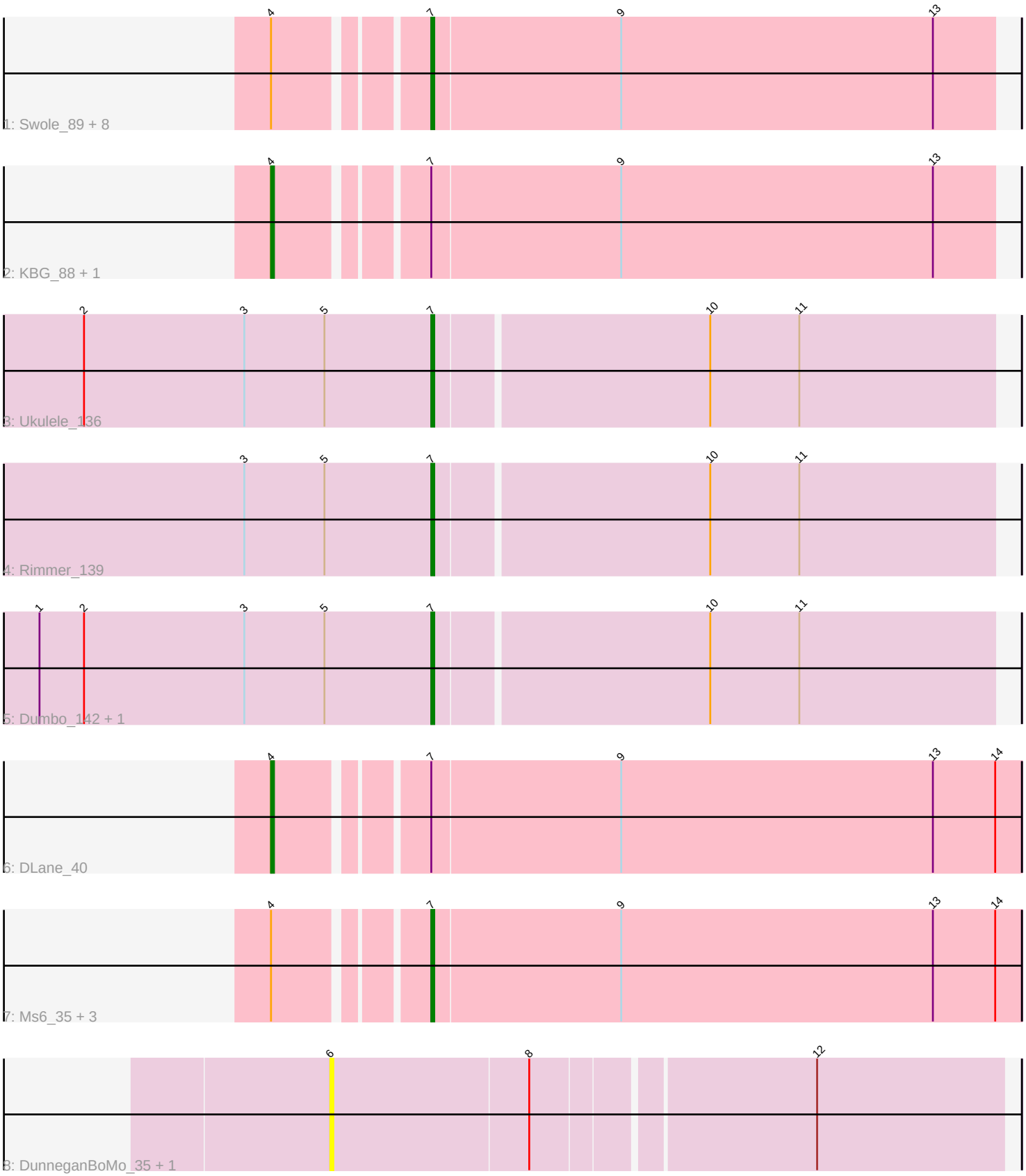
Pham 4192


4
7
9
13
1: Swole_89 + 8
4
7
9
13
2: KBG_88 + 1
2
3
5
7
10
11
3: Ukulele_136
3
5
7
10
11
4: Rimmer_139
1
2
3
5
7
10
11
5: Dumbo_142 + 1
4
7
9
13
14
6: DLane_40
4
7
9
13
14
7: Ms6_35 + 3
6
8
12
8: DunneganBoMo_35 + 1

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 4192 Report

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

Pham number 4192 has 22 members, 7 are drafts.

Phages represented in each track:
• Track 1 : Swole_89, Tote_87, TwoPeat_86, JuliaChild_92, PSullivan_86, Pita2_92, Doom_85, Molly_90, Buttons_86
• Track 2 : KBG_88, Petruchio_89
• Track 3 : Ukulele_136
• Track 4 : Rimmer_139
• Track 5 : Dumbo_142, Buck_142
• Track 6 : DLane_40
• Track 7 : Ms6_35, Bobi_42, Mova_41, PhesterPhotato_40
• Track 8 : DunneganBoMo_35, DunneganBoMo_338

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 12 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bobi_42, Buck_142, Buttons_86, Doom_85, Dumbo_142, JuliaChild_92, Molly_90, Mova_41, Ms6_35, PSullivan_86, PhesterPhotato_40, Pita2_92, Rimmer_139, Swole_89, Tote_87, TwoPeat_86, Ukulele_136,

Genes that have the "Most Annotated" start but do not call it:
• DLane_40, KBG_88, Petruchio_89,

Genes that do not have the "Most Annotated" start:
• DunneganBoMo_338, DunneganBoMo_35,

Summary by start number:

Start 4:
• Found in 16 of 22 (72.7%) of genes in pham
• Manual Annotations of this start: 3 of 15
• Called 18.8% of time when present
• Phage (with cluster) where this start called: DLane_40 (F1), KBG_88 (A1), Petruchio_89 (A1),

Start 6:
• Found in 2 of 22 (9.1%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DunneganBoMo_338 (FC), DunneganBoMo_35 (FC),

Start 7:
• Found in 20 of 22 (90.9%) of genes in pham
• Manual Annotations of this start: 12 of 15
• Called 85.0% of time when present
• Phage (with cluster) where this start called: Bobi_42 (F1), Buck_142 (E), Buttons_86 (A1), Doom_85 (A1), Dumbo_142 (E), JuliaChild_92 (A1), Molly_90 (A1), Mova_41 (F1), Ms6_35 (F1), PSullivan_86 (A1), PhesterPhotato_40 (F1), Pita2_92 (A1), Rimmer_139 (E), Swole_89 (A1), Tote_87 (A1), TwoPeat_86 (A1), Ukulele_136 (E),

Summary by clusters:

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

Info for manual annotations of cluster A1:
•Start number 4 was manually annotated 2 times for cluster A1.
•Start number 7 was manually annotated 6 times for cluster A1.

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

Info for manual annotations of cluster F1:
•Start number 4 was manually annotated 1 time for cluster F1.
•Start number 7 was manually annotated 2 times for cluster F1.

Gene Information:

Gene: Bobi_42 Start: 32232, Stop: 32035, Start Num: 7
Candidate Starts for Bobi_42:
(Start: 4 @32277 has 3 MA's), (Start: 7 @32232 has 12 MA's), (9, 32169), (13, 32064), (14, 32043),

Gene: Buck_142 Start: 74770, Stop: 74585, Start Num: 7
Candidate Starts for Buck_142:
(1, 74902), (2, 74887), (3, 74833), (5, 74806), (Start: 7 @74770 has 12 MA's), (10, 74680), (11, 74650),

Gene: Buttons_86 Start: 48894, Stop: 48706, Start Num: 7
Candidate Starts for Buttons_86:
(Start: 4 @48939 has 3 MA's), (Start: 7 @48894 has 12 MA's), (9, 48831), (13, 48726),

Gene: DLane_40 Start: 31900, Stop: 31658, Start Num: 4
Candidate Starts for DLane_40:
(Start: 4 @31900 has 3 MA's), (Start: 7 @31855 has 12 MA's), (9, 31792), (13, 31687), (14, 31666),

Gene: Doom_85 Start: 50884, Stop: 50696, Start Num: 7
Candidate Starts for Doom_85:
(Start: 4 @50929 has 3 MA's), (Start: 7 @50884 has 12 MA's), (9, 50821), (13, 50716),

Gene: Dumbo_142 Start: 73528, Stop: 73343, Start Num: 7
Candidate Starts for Dumbo_142:
(1, 73660), (2, 73645), (3, 73591), (5, 73564), (Start: 7 @73528 has 12 MA's), (10, 73438), (11, 73408),

Gene: DunneganBoMo_35 Start: 13808, Stop: 13590, Start Num: 6
Candidate Starts for DunneganBoMo_35:
(6, 13808), (8, 13742), (12, 13652),

Gene: DunneganBoMo_338 Start: 193220, Stop: 193002, Start Num: 6
Candidate Starts for DunneganBoMo_338:
(6, 193220), (8, 193154), (12, 193064),

Gene: JuliaChild_92 Start: 51697, Stop: 51509, Start Num: 7
Candidate Starts for JuliaChild_92:
(Start: 4 @51742 has 3 MA's), (Start: 7 @51697 has 12 MA's), (9, 51634), (13, 51529),

Gene: KBG_88 Start: 52500, Stop: 52267, Start Num: 4
Candidate Starts for KBG_88:
(Start: 4 @52500 has 3 MA's), (Start: 7 @52455 has 12 MA's), (9, 52392), (13, 52287),

Gene: Molly_90 Start: 49940, Stop: 49752, Start Num: 7
Candidate Starts for Molly_90:
(Start: 4 @49985 has 3 MA's), (Start: 7 @49940 has 12 MA's), (9, 49877), (13, 49772),

Gene: Mova_41 Start: 31360, Stop: 31163, Start Num: 7
Candidate Starts for Mova_41:
(Start: 4 @31405 has 3 MA's), (Start: 7 @31360 has 12 MA's), (9, 31297), (13, 31192), (14, 31171),

Gene: Ms6_35 Start: 27144, Stop: 26947, Start Num: 7
Candidate Starts for Ms6_35:
(Start: 4 @27189 has 3 MA's), (Start: 7 @27144 has 12 MA's), (9, 27081), (13, 26976), (14, 26955),

Gene: PSullivan_86 Start: 49457, Stop: 49269, Start Num: 7
Candidate Starts for PSullivan_86:
(Start: 4 @49502 has 3 MA's), (Start: 7 @49457 has 12 MA's), (9, 49394), (13, 49289),

Gene: Petruchio_89 Start: 49033, Stop: 48797, Start Num: 4
Candidate Starts for Petruchio_89:
(Start: 4 @49033 has 3 MA's), (Start: 7 @48985 has 12 MA's), (9, 48922), (13, 48817),

Gene: PhesterPhotato_40 Start: 31585, Stop: 31388, Start Num: 7
Candidate Starts for PhesterPhotato_40:
(Start: 4 @31630 has 3 MA's), (Start: 7 @31585 has 12 MA's), (9, 31522), (13, 31417), (14, 31396),

Gene: Pita2_92 Start: 50953, Stop: 50765, Start Num: 7
Candidate Starts for Pita2_92:
(Start: 4 @50998 has 3 MA's), (Start: 7 @50953 has 12 MA's), (9, 50890), (13, 50785),

Gene: Rimmer_139 Start: 73748, Stop: 73563, Start Num: 7
Candidate Starts for Rimmer_139:
(3, 73811), (5, 73784), (Start: 7 @73748 has 12 MA's), (10, 73658), (11, 73628),

Gene: Swole_89 Start: 51171, Stop: 50983, Start Num: 7
Candidate Starts for Swole_89:
(Start: 4 @51216 has 3 MA's), (Start: 7 @51171 has 12 MA's), (9, 51108), (13, 51003),

Gene: Tote_87 Start: 48439, Stop: 48251, Start Num: 7
Candidate Starts for Tote_87:
(Start: 4 @48484 has 3 MA's), (Start: 7 @48439 has 12 MA's), (9, 48376), (13, 48271),

Gene: TwoPeat_86 Start: 50633, Stop: 50445, Start Num: 7
Candidate Starts for TwoPeat_86:
(Start: 4 @50678 has 3 MA's), (Start: 7 @50633 has 12 MA's), (9, 50570), (13, 50465),

Gene: Ukulele_136 Start: 72905, Stop: 72720, Start Num: 7
Candidate Starts for Ukulele_136:
(2, 73022), (3, 72968), (5, 72941), (Start: 7 @72905 has 12 MA's), (10, 72815), (11, 72785),