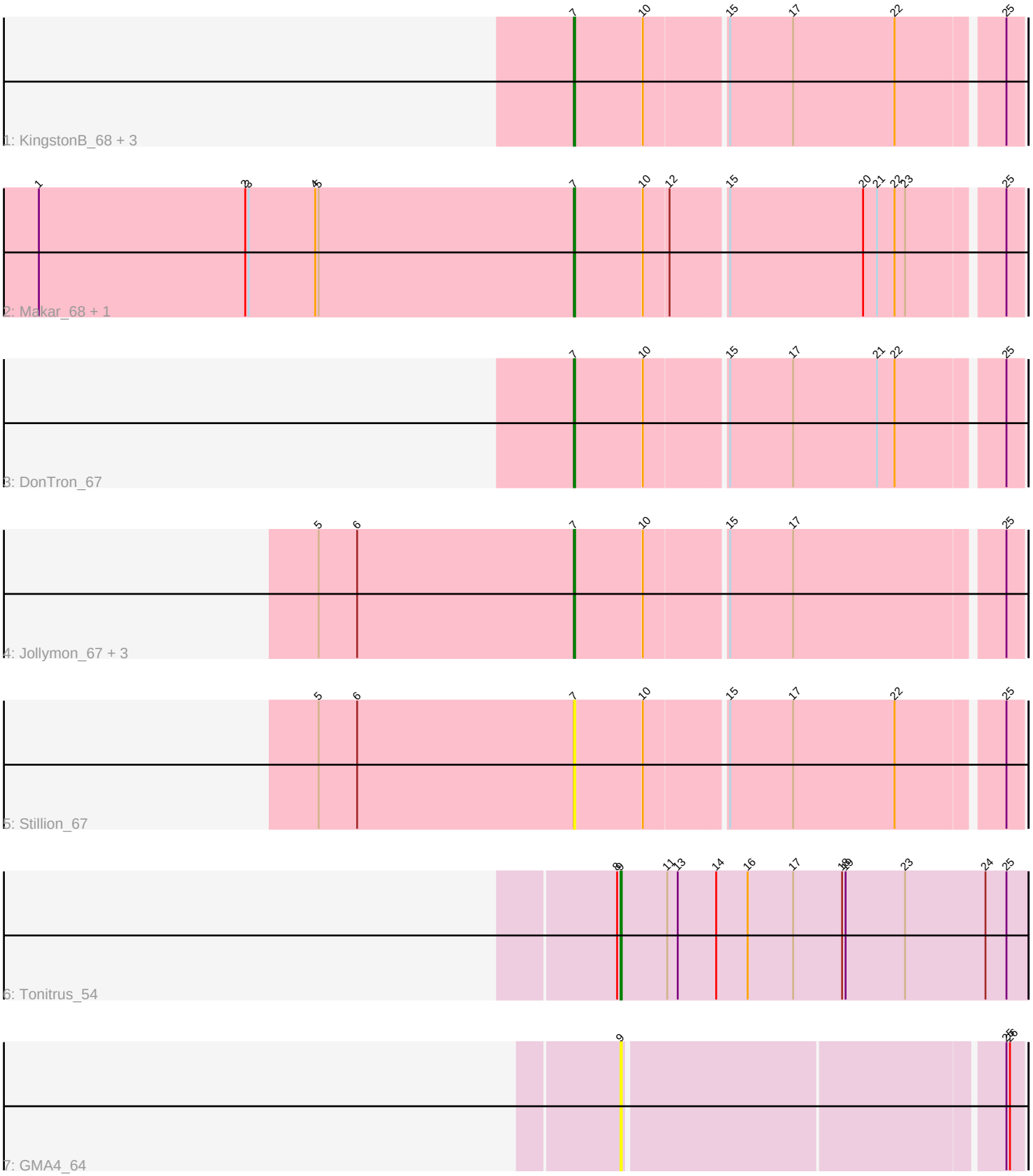
Pham 303776


7
10
15
17
22
25
1: KingstonB_68 + 3
1
3
5
7
10
12
15
20
21
22
23
25
2: Makar_68 + 1
7
10
15
17
21
22
25
3: DonTron_67
5
6
7
10
15
17
25
4: Jollymon_67 + 3
5
6
7
10
15
17
22
25
5: Stillion_67
11
13
14
16
17
23
24
25
6: Tonitrus_54
9
7: GMA4_64

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 303776 Report

This analysis was run 06/08/26 on database version 649.

Pham number 303776 has 14 members, 8 are drafts.

Phages represented in each track:
• Track 1 : KingstonB_68, Sting_66, Soos_63, Grumio_67
• Track 2 : Makar_68, Clawz_67
• Track 3 : DonTron_67
• Track 4 : Jollymon_67, Amo99_68, Purplicious_66, ColdSoup_68
• Track 5 : Stillion_67
• Track 6 : Tonitrus_54
• Track 7 : GMA4_64

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

Genes that call this "Most Annotated" start:
• Amo99_68, Clawz_67, ColdSoup_68, DonTron_67, Grumio_67, Jollymon_67, KingstonB_68, Makar_68, Purplicious_66, Soos_63, Stillion_67, Sting_66,

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

Genes that do not have the "Most Annotated" start:
• GMA4_64, Tonitrus_54,

Summary by start number:

Start 7:
• Found in 12 of 14 (85.7%) of genes in pham
• Manual Annotations of this start: 5 of 6
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amo99_68 (CP), Clawz_67 (CP), ColdSoup_68 (CP), DonTron_67 (CP), Grumio_67 (CP), Jollymon_67 (CP), KingstonB_68 (CP), Makar_68 (CP), Purplicious_66 (CP), Soos_63 (CP), Stillion_67 (CP), Sting_66 (CP),

Start 9:
• Found in 2 of 14 (14.3%) of genes in pham
• Manual Annotations of this start: 1 of 6
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GMA4_64 (singleton), Tonitrus_54 (singleton),

Summary by clusters:

There are 2 clusters represented in this pham: singleton, CP,

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

Gene Information:

Gene: Amo99_68 Start: 44946, Stop: 45308, Start Num: 7
Candidate Starts for Amo99_68:
(5, 44727), (6, 44760), (Start: 7 @44946 has 5 MA's), (10, 45003), (15, 45069), (17, 45123), (25, 45294),

Gene: Clawz_67 Start: 44832, Stop: 45194, Start Num: 7
Candidate Starts for Clawz_67:
(1, 44373), (2, 44550), (3, 44553), (4, 44610), (5, 44613), (Start: 7 @44832 has 5 MA's), (10, 44889), (12, 44910), (15, 44955), (20, 45069), (21, 45081), (22, 45096), (23, 45105), (25, 45180),

Gene: ColdSoup_68 Start: 45027, Stop: 45389, Start Num: 7
Candidate Starts for ColdSoup_68:
(5, 44808), (6, 44841), (Start: 7 @45027 has 5 MA's), (10, 45084), (15, 45150), (17, 45204), (25, 45375),

Gene: DonTron_67 Start: 45068, Stop: 45430, Start Num: 7
Candidate Starts for DonTron_67:
(Start: 7 @45068 has 5 MA's), (10, 45125), (15, 45191), (17, 45245), (21, 45317), (22, 45332), (25, 45416),

Gene: GMA4_64 Start: 42024, Stop: 42347, Start Num: 9
Candidate Starts for GMA4_64:
(Start: 9 @42024 has 1 MA's), (25, 42333), (26, 42336),

Gene: Grumio_67 Start: 44509, Stop: 44871, Start Num: 7
Candidate Starts for Grumio_67:
(Start: 7 @44509 has 5 MA's), (10, 44566), (15, 44632), (17, 44686), (22, 44773), (25, 44857),

Gene: Jollymon_67 Start: 45027, Stop: 45389, Start Num: 7
Candidate Starts for Jollymon_67:
(5, 44808), (6, 44841), (Start: 7 @45027 has 5 MA's), (10, 45084), (15, 45150), (17, 45204), (25, 45375),

Gene: KingstonB_68 Start: 44506, Stop: 44868, Start Num: 7
Candidate Starts for KingstonB_68:

(Start: 7 @44506 has 5 MA's), (10, 44563), (15, 44629), (17, 44683), (22, 44770), (25, 44854),

Gene: Makar_68 Start: 44859, Stop: 45221, Start Num: 7
Candidate Starts for Makar_68:
(1, 44400), (2, 44577), (3, 44580), (4, 44637), (5, 44640), (Start: 7 @44859 has 5 MA's), (10, 44916), (12, 44937), (15, 44982), (20, 45096), (21, 45108), (22, 45123), (23, 45132), (25, 45207),

Gene: Purplicious_66 Start: 44274, Stop: 44636, Start Num: 7
Candidate Starts for Purplicious_66:
(5, 44055), (6, 44088), (Start: 7 @44274 has 5 MA's), (10, 44331), (15, 44397), (17, 44451), (25, 44622),

Gene: Soos_63 Start: 44235, Stop: 44597, Start Num: 7
Candidate Starts for Soos_63:
(Start: 7 @44235 has 5 MA's), (10, 44292), (15, 44358), (17, 44412), (22, 44499), (25, 44583),

Gene: Stillion_67 Start: 44832, Stop: 45194, Start Num: 7
Candidate Starts for Stillion_67:
(5, 44613), (6, 44646), (Start: 7 @44832 has 5 MA's), (10, 44889), (15, 44955), (17, 45009), (22, 45096), (25, 45180),

Gene: Sting_66 Start: 44674, Stop: 45036, Start Num: 7
Candidate Starts for Sting_66:
(Start: 7 @44674 has 5 MA's), (10, 44731), (15, 44797), (17, 44851), (22, 44938), (25, 45022),

Gene: Tonitrus_54 Start: 41488, Stop: 41835, Start Num: 9
Candidate Starts for Tonitrus_54:
(8, 41485), (Start: 9 @41488 has 1 MA's), (11, 41527), (13, 41536), (14, 41569), (16, 41596), (17, 41635), (18, 41677), (19, 41680), (23, 41731), (24, 41800), (25, 41818),