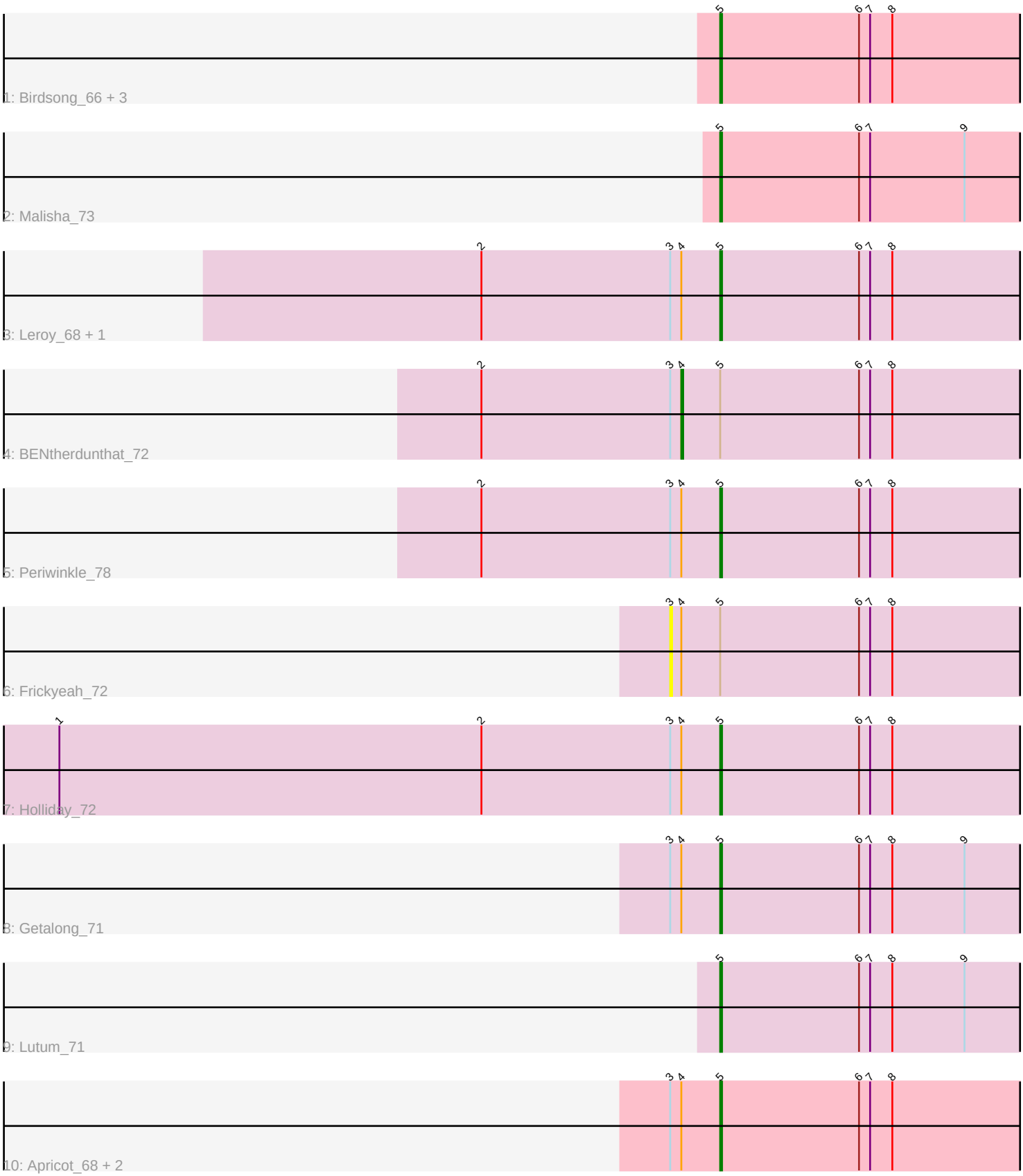
Pham 4645


1: Birdsong_66 + 3
2: Malisha_73
3: Leroy_68 + 1
4: BENtherdunthat_72
5: Periwinkle_78
6: Frickyeah_72
7: Holliday_72
8: Getalong_71
9: Lutum_71
10: Apricot_68 + 2

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 4645 Report

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

Pham number 4645 has 16 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Birdsong_66, Kamaru_65, Budski_73, Whitney_68
• Track 2 : Malisha_73
• Track 3 : Leroy_68, Asapag_67
• Track 4 : BENtherdunthat_72
• Track 5 : Periwinkle_78
• Track 6 : Frickyeah_72
• Track 7 : Holliday_72
• Track 8 : Getalong_71
• Track 9 : Lutum_71
• Track 10 : Apricot_68, Phistory_67, Crater_68

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

The start number called the most often in the published annotations is 5, it was called in 14 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Apricot_68, Asapag_67, Birdsong_66, Budski_73, Crater_68, Getalong_71, Holliday_72, Kamaru_65, Leroy_68, Lutum_71, Malisha_73, Periwinkle_78, Phistory_67, Whitney_68,

Genes that have the "Most Annotated" start but do not call it:
• BENtherdunthat_72, Frickyeah_72,

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

Summary by start number:

Start 3:
• Found in 10 of 16 (62.5%) of genes in pham
• No Manual Annotations of this start.
• Called 10.0% of time when present
• Phage (with cluster) where this start called: Frickyeah_72 (DN1),

Start 4:
• Found in 10 of 16 (62.5%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 10.0% of time when present
• Phage (with cluster) where this start called: BENtherdunthat_72 (DN1),

Start 5:
• Found in 16 of 16 (100.0%) of genes in pham
• Manual Annotations of this start: 14 of 15
• Called 87.5% of time when present
• Phage (with cluster) where this start called: Apricot_68 (DN3), Asapag_67 (DN1), Birdsong_66 (DN), Budski_73 (DN), Crater_68 (DN3), Getalong_71 (DN1), Holliday_72 (DN1), Kamaru_65 (DN1), Leroy_68 (DN1), Lutum_71 (DN1), Malisha_73 (DN), Periwinkle_78 (DN1), Phistory_67 (DN1), Whitney_68 (DN1),

Summary by clusters:

There are 3 clusters represented in this pham: DN, DN1, DN3,

Info for manual annotations of cluster DN:
•Start number 5 was manually annotated 3 times for cluster DN.

Info for manual annotations of cluster DN1:
•Start number 4 was manually annotated 1 time for cluster DN1.
•Start number 5 was manually annotated 9 times for cluster DN1.

Info for manual annotations of cluster DN3:
•Start number 5 was manually annotated 2 times for cluster DN3.

Gene Information:

Gene: Apricot_68 Start: 40809, Stop: 40997, Start Num: 5
Candidate Starts for Apricot_68:
(3, 40782), (Start: 4 @40788 has 1 MA's), (Start: 5 @40809 has 14 MA's), (6, 40884), (7, 40890), (8, 40902),

Gene: Asapag_67 Start: 40803, Stop: 40991, Start Num: 5
Candidate Starts for Asapag_67:
(2, 40674), (3, 40776), (Start: 4 @40782 has 1 MA's), (Start: 5 @40803 has 14 MA's), (6, 40878), (7, 40884), (8, 40896),

Gene: BENtherdunthat_72 Start: 42136, Stop: 42345, Start Num: 4
Candidate Starts for BENtherdunthat_72:
(2, 42028), (3, 42130), (Start: 4 @42136 has 1 MA's), (Start: 5 @42157 has 14 MA's), (6, 42232), (7, 42238), (8, 42250),

Gene: Birdsong_66 Start: 40539, Stop: 40727, Start Num: 5
Candidate Starts for Birdsong_66:
(Start: 5 @40539 has 14 MA's), (6, 40614), (7, 40620), (8, 40632),

Gene: Budski_73 Start: 42663, Stop: 42851, Start Num: 5
Candidate Starts for Budski_73:
(Start: 5 @42663 has 14 MA's), (6, 42738), (7, 42744), (8, 42756),

Gene: Crater_68 Start: 41204, Stop: 41392, Start Num: 5
Candidate Starts for Crater_68:
(3, 41177), (Start: 4 @41183 has 1 MA's), (Start: 5 @41204 has 14 MA's), (6, 41279), (7, 41285), (8, 41297),

Gene: Frickyeah_72 Start: 41269, Stop: 41484, Start Num: 3
Candidate Starts for Frickyeah_72:
(3, 41269), (Start: 4 @41275 has 1 MA's), (Start: 5 @41296 has 14 MA's), (6, 41371), (7, 41377), (8, 41389),

Gene: Getalong_71 Start: 43395, Stop: 43583, Start Num: 5
Candidate Starts for Getalong_71:
(3, 43368), (Start: 4 @43374 has 1 MA's), (Start: 5 @43395 has 14 MA's), (6, 43470), (7, 43476), (8, 43488), (9, 43527),

Gene: Holliday_72 Start: 44919, Stop: 45107, Start Num: 5
Candidate Starts for Holliday_72:
(1, 44562), (2, 44790), (3, 44892), (Start: 4 @44898 has 1 MA's), (Start: 5 @44919 has 14 MA's), (6, 44994), (7, 45000), (8, 45012),

Gene: Kamaru_65 Start: 40724, Stop: 40912, Start Num: 5
Candidate Starts for Kamaru_65:
(Start: 5 @40724 has 14 MA's), (6, 40799), (7, 40805), (8, 40817),

Gene: Leroy_68 Start: 41140, Stop: 41328, Start Num: 5
Candidate Starts for Leroy_68:
(2, 41011), (3, 41113), (Start: 4 @41119 has 1 MA's), (Start: 5 @41140 has 14 MA's), (6, 41215), (7, 41221), (8, 41233),

Gene: Lutum_71 Start: 41998, Stop: 42186, Start Num: 5
Candidate Starts for Lutum_71:
(Start: 5 @41998 has 14 MA's), (6, 42073), (7, 42079), (8, 42091), (9, 42130),

Gene: Malisha_73 Start: 45662, Stop: 45850, Start Num: 5
Candidate Starts for Malisha_73:
(Start: 5 @45662 has 14 MA's), (6, 45737), (7, 45743), (9, 45794),

Gene: Periwinkle_78 Start: 44304, Stop: 44492, Start Num: 5
Candidate Starts for Periwinkle_78:
(2, 44175), (3, 44277), (Start: 4 @44283 has 1 MA's), (Start: 5 @44304 has 14 MA's), (6, 44379), (7, 44385), (8, 44397),

Gene: Phistory_67 Start: 40369, Stop: 40557, Start Num: 5
Candidate Starts for Phistory_67:
(3, 40342), (Start: 4 @40348 has 1 MA's), (Start: 5 @40369 has 14 MA's), (6, 40444), (7, 40450), (8, 40462),

Gene: Whitney_68 Start: 42576, Stop: 42764, Start Num: 5
Candidate Starts for Whitney_68:

(Start: 5 @42576 has 14 MA's), (6, 42651), (7, 42657), (8, 42669),