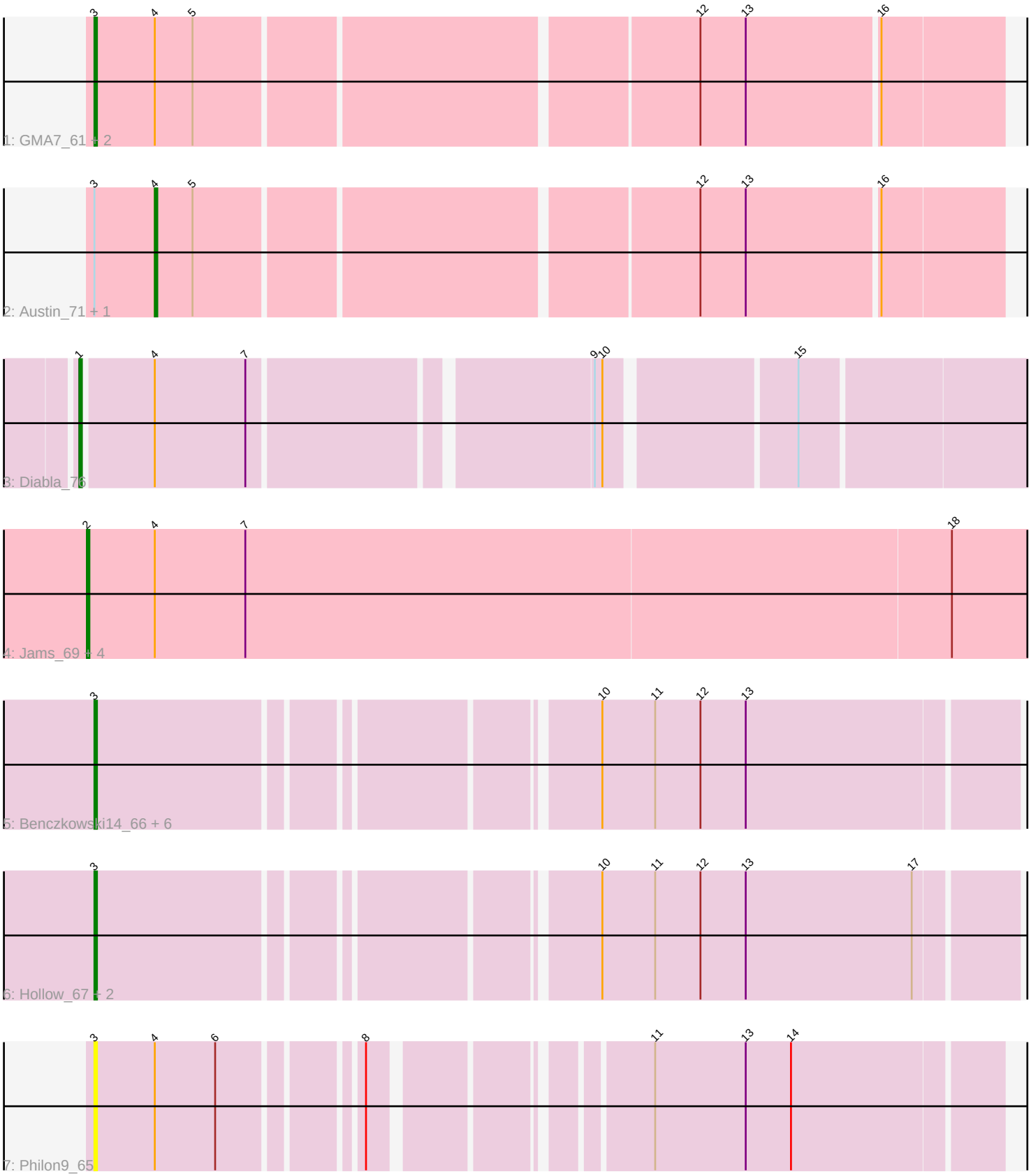
Pham 4381


3
4
5
12
13
16
1: GMA7_61 + 2
3
4
5
12
13
16
2: Austin_71 + 1
1
4
7
9
10
15
3: Diabla_76
2
4
7
18
4: Jams_69 + 4
3
10
11
12
13
5: Benczkowski14_66 + 6
3
10
11
12
13
17
6: Hollow_67 + 2
3
4
6
8
11
13
14
7: Philon9_65

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 4381 Report

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

Pham number 4381 has 22 members, 5 are drafts.

Phages represented in each track:
• Track 1 : GMA7_61, Amore2_72, GTE7_60
• Track 2 : Austin_71, HayZem_73
• Track 3 : Diabla_76
• Track 4 : Jams_69, Newt_70, Minos_70, Sticker17_69, GalacticEye_69
• Track 5 : Benczkowski14_66, Teech_65, Katyusha_66, Teatealatte_67, Kvothe_65, Tredge_66, Niagara_66
• Track 6 : Hollow_67, ASerpRocky_64, Demosthenes_64
• Track 7 : Philon9_65

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

The start number called the most often in the published annotations is 3, it was called in 10 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ASerpRocky_64, Amore2_72, Benczkowski14_66, Demosthenes_64, GMA7_61, GTE7_60, Hollow_67, Katyusha_66, Kvothe_65, Niagara_66, Philon9_65, Teatealatte_67, Teech_65, Tredge_66,

Genes that have the "Most Annotated" start but do not call it:
• Austin_71, HayZem_73,

Genes that do not have the "Most Annotated" start:
• Diabla_76, GalacticEye_69, Jams_69, Minos_70, Newt_70, Sticker17_69,

Summary by start number:

Start 1:
• Found in 1 of 22 (4.5%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Diabla_76 (CS2),

Start 2:

• Found in 5 of 22 (22.7%) of genes in pham
• Manual Annotations of this start: 5 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GalacticEye_69 (CS3), Jams_69 (CS3), Minos_70 (CS3), Newt_70 (CS3), Sticker17_69 (CS3),

Start 3:
• Found in 16 of 22 (72.7%) of genes in pham
• Manual Annotations of this start: 10 of 17
• Called 87.5% of time when present
• Phage (with cluster) where this start called: ASerpRocky_64 (CS4), Amore2_72 (CS1), Benczkowski14_66 (CS4), Demosthenes_64 (CS4), GMA7_61 (CS1), GTE7_60 (CS1), Hollow_67 (CS4), Katyusha_66 (CS4), Kvothe_65 (CS4), Niagara_66 (CS4), Philon9_65 (CS4), Teatealatte_67 (CS4), Teech_65 (CS4), Tredge_66 (CS4),

Start 4:
• Found in 12 of 22 (54.5%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Austin_71 (CS1), HayZem_73 (CS1),

Summary by clusters:

There are 4 clusters represented in this pham: CS4, CS1, CS3, CS2,

Info for manual annotations of cluster CS1:
•Start number 3 was manually annotated 1 time for cluster CS1.
•Start number 4 was manually annotated 1 time for cluster CS1.

Info for manual annotations of cluster CS2:
•Start number 1 was manually annotated 1 time for cluster CS2.

Info for manual annotations of cluster CS3:
•Start number 2 was manually annotated 5 times for cluster CS3.

Info for manual annotations of cluster CS4:
•Start number 3 was manually annotated 9 times for cluster CS4.

Gene Information:

Gene: ASerpRocky_64 Start: 57896, Stop: 57552, Start Num: 3
Candidate Starts for ASerpRocky_64:
(Start: 3 @57896 has 10 MA's), (10, 57713), (11, 57692), (12, 57674), (13, 57656), (17, 57590),

Gene: Amore2_72 Start: 58025, Stop: 57681, Start Num: 3
Candidate Starts for Amore2_72:
(Start: 3 @58025 has 10 MA's), (Start: 4 @58001 has 1 MA's), (5, 57986), (12, 57797), (13, 57779), (16, 57728),

Gene: Austin_71 Start: 57999, Stop: 57679, Start Num: 4

Candidate Starts for Austin_71:
(Start: 3 @58023 has 10 MA's), (Start: 4 @57999 has 1 MA's), (5, 57984), (12, 57795), (13, 57777), (16, 57726),

Gene: Benczkowski14_66 Start: 58418, Stop: 58077, Start Num: 3
Candidate Starts for Benczkowski14_66:
(Start: 3 @58418 has 10 MA's), (10, 58238), (11, 58217), (12, 58199), (13, 58181),

Gene: Demosthenes_64 Start: 57869, Stop: 57528, Start Num: 3
Candidate Starts for Demosthenes_64:
(Start: 3 @57869 has 10 MA's), (10, 57689), (11, 57668), (12, 57650), (13, 57632), (17, 57566),

Gene: Diabla_76 Start: 59911, Stop: 59456, Start Num: 1
Candidate Starts for Diabla_76:
(Start: 1 @59911 has 1 MA's), (Start: 4 @59884 has 1 MA's), (7, 59848), (9, 59722), (10, 59719), (15, 59650),

Gene: GMA7_61 Start: 52239, Stop: 51895, Start Num: 3
Candidate Starts for GMA7_61:
(Start: 3 @52239 has 10 MA's), (Start: 4 @52215 has 1 MA's), (5, 52200), (12, 52011), (13, 51993), (16, 51942),

Gene: GTE7_60 Start: 52270, Stop: 51926, Start Num: 3
Candidate Starts for GTE7_60:
(Start: 3 @52270 has 10 MA's), (Start: 4 @52246 has 1 MA's), (5, 52231), (12, 52042), (13, 52024), (16, 51973),

Gene: GalacticEye_69 Start: 58339, Stop: 57863, Start Num: 2
Candidate Starts for GalacticEye_69:
(Start: 2 @58339 has 5 MA's), (Start: 4 @58312 has 1 MA's), (7, 58276), (18, 57997),

Gene: HayZem_73 Start: 57998, Stop: 57678, Start Num: 4
Candidate Starts for HayZem_73:
(Start: 3 @58022 has 10 MA's), (Start: 4 @57998 has 1 MA's), (5, 57983), (12, 57794), (13, 57776), (16, 57725),

Gene: Hollow_67 Start: 58598, Stop: 58257, Start Num: 3
Candidate Starts for Hollow_67:
(Start: 3 @58598 has 10 MA's), (10, 58418), (11, 58397), (12, 58379), (13, 58361), (17, 58295),

Gene: Jams_69 Start: 57828, Stop: 57352, Start Num: 2
Candidate Starts for Jams_69:
(Start: 2 @57828 has 5 MA's), (Start: 4 @57801 has 1 MA's), (7, 57765), (18, 57486),

Gene: Katyusha_66 Start: 58418, Stop: 58077, Start Num: 3
Candidate Starts for Katyusha_66:
(Start: 3 @58418 has 10 MA's), (10, 58238), (11, 58217), (12, 58199), (13, 58181),

Gene: Kvothe_65 Start: 58320, Stop: 57979, Start Num: 3
Candidate Starts for Kvothe_65:
(Start: 3 @58320 has 10 MA's), (10, 58140), (11, 58119), (12, 58101), (13, 58083),

Gene: Minos_70 Start: 58370, Stop: 57894, Start Num: 2

Candidate Starts for Minos_70:
(Start: 2 @58370 has 5 MA's), (Start: 4 @58343 has 1 MA's), (7, 58307), (18, 58028),

Gene: Newt_70 Start: 58860, Stop: 58384, Start Num: 2
Candidate Starts for Newt_70:
(Start: 2 @58860 has 5 MA's), (Start: 4 @58833 has 1 MA's), (7, 58797), (18, 58518),

Gene: Niagara_66 Start: 58411, Stop: 58070, Start Num: 3
Candidate Starts for Niagara_66:
(Start: 3 @58411 has 10 MA's), (10, 58231), (11, 58210), (12, 58192), (13, 58174),

Gene: Philon9_65 Start: 59559, Stop: 59236, Start Num: 3
Candidate Starts for Philon9_65:
(Start: 3 @59559 has 10 MA's), (Start: 4 @59535 has 1 MA's), (6, 59511), (8, 59463), (11, 59370), (13, 59334), (14, 59316),

Gene: Sticker17_69 Start: 58343, Stop: 57867, Start Num: 2
Candidate Starts for Sticker17_69:
(Start: 2 @58343 has 5 MA's), (Start: 4 @58316 has 1 MA's), (7, 58280), (18, 58001),

Gene: Teatealatte_67 Start: 58308, Stop: 57967, Start Num: 3
Candidate Starts for Teatealatte_67:
(Start: 3 @58308 has 10 MA's), (10, 58128), (11, 58107), (12, 58089), (13, 58071),

Gene: Teech_65 Start: 58124, Stop: 57783, Start Num: 3
Candidate Starts for Teech_65:
(Start: 3 @58124 has 10 MA's), (10, 57944), (11, 57923), (12, 57905), (13, 57887),

Gene: Tredge_66 Start: 58308, Stop: 57967, Start Num: 3
Candidate Starts for Tredge_66:
(Start: 3 @58308 has 10 MA's), (10, 58128), (11, 58107), (12, 58089), (13, 58071),