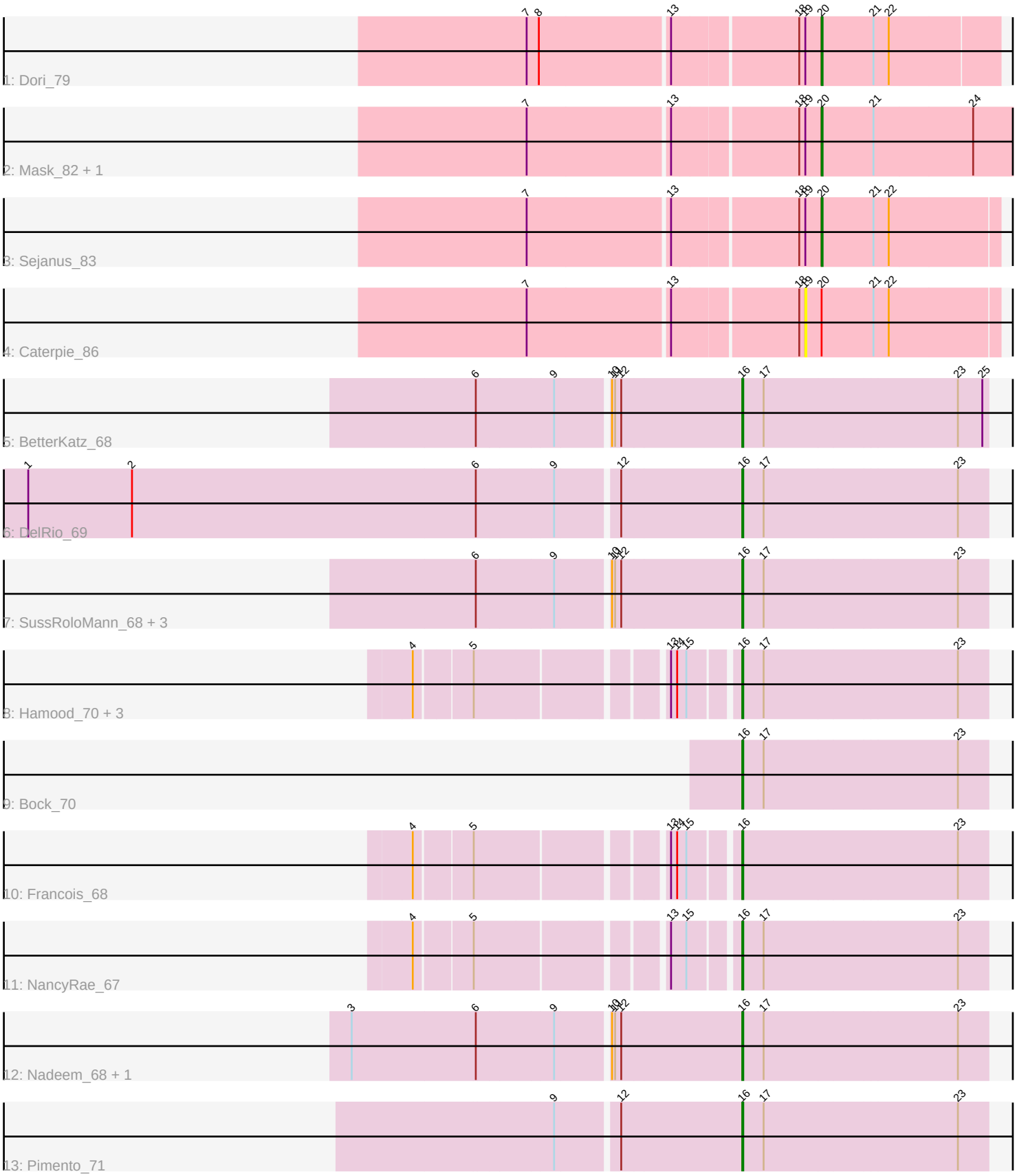
Pham 348037


1: Dori_79
2: Mask_82 + 1
3: Sejanus_83
4: Caterpie_86
5: BetterKatz_68
6: DelRio_69
7: SussRoloMann_68 + 3
8: Hamood_70 + 3
9: Bock_70
10: Francois_68
11: NancyRae_67
12: Nadeem_68 + 1
13: Pimento_71

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 348037 Report

This analysis was run 11/14/26 on database version 672.

Pham number 348037 has 21 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Dori_79
• Track 2 : Mask_82, JohnLord_82
• Track 3 : Sejanus_83
• Track 4 : Caterpie_86
• Track 5 : BetterKatz_68
• Track 6 : DelRio_69
• Track 7 : SussRoloMann_68, Parada_68, Brylie_68, Mulch_68
• Track 8 : Hamood_70, Chop_70, GrandSlam_70, Ayotoya_69
• Track 9 : Bock_70
• Track 10 : Francois_68
• Track 11 : NancyRae_67
• Track 12 : Nadeem_68, WheatThin_67
• Track 13 : Pimento_71

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

The start number called the most often in the published annotations is 16, it was called in 15 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ayotoya_69, BetterKatz_68, Bock_70, Brylie_68, Chop_70, DelRio_69, Francois_68, GrandSlam_70, Hamood_70, Mulch_68, Nadeem_68, NancyRae_67, Parada_68, Pimento_71, SussRoloMann_68, WheatThin_67,

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

Genes that do not have the "Most Annotated" start:
• Caterpie_86, Dori_79, JohnLord_82, Mask_82, Sejanus_83,

Summary by start number:

Start 16:
• Found in 16 of 21 (76.2%) of genes in pham

• Manual Annotations of this start: 15 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ayotoya_69 (DI), BetterKatz_68 (DI), Bock_70 (DI), Brylie_68 (DI), Chop_70 (DI), DelRio_69 (DI), Francois_68 (DI), GrandSlam_70 (DI), Hamood_70 (DI), Mulch_68 (DI), Nadeem_68 (DI), NancyRae_67 (DI), Parada_68 (DI), Pimento_71 (DI), SussRoloMann_68 (DI), WheatThin_67 (DI),

Start 19:
• Found in 5 of 21 (23.8%) of genes in pham
• No Manual Annotations of this start.
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Caterpie_86 (AD),

Start 20:
• Found in 5 of 21 (23.8%) of genes in pham
• Manual Annotations of this start: 3 of 18
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Dori_79 (AD), JohnLord_82 (AD), Mask_82 (AD), Sejanus_83 (AD),

Summary by clusters:

There are 2 clusters represented in this pham: AD, DI,

Info for manual annotations of cluster AD:
•Start number 20 was manually annotated 3 times for cluster AD.

Info for manual annotations of cluster DI:
•Start number 16 was manually annotated 15 times for cluster DI.

Gene Information:

Gene: Ayotoya_69 Start: 44611, Stop: 44847, Start Num: 16
Candidate Starts for Ayotoya_69:
(4, 44338), (5, 44389), (13, 44554), (14, 44560), (15, 44569), (Start: 16 @44611 has 15 MA's), (17, 44632), (23, 44818),

Gene: BetterKatz_68 Start: 43711, Stop: 43947, Start Num: 16
Candidate Starts for BetterKatz_68:
(6, 43465), (9, 43537), (10, 43585), (11, 43588), (12, 43594), (Start: 16 @43711 has 15 MA's), (17, 43732), (23, 43918), (25, 43942),

Gene: Bock_70 Start: 43955, Stop: 44191, Start Num: 16
Candidate Starts for Bock_70:
(Start: 16 @43955 has 15 MA's), (17, 43976), (23, 44162),

Gene: Brylie_68 Start: 43534, Stop: 43770, Start Num: 16
Candidate Starts for Brylie_68:
(6, 43288), (9, 43360), (10, 43408), (11, 43411), (12, 43417), (Start: 16 @43534 has 15 MA's), (17, 43555), (23, 43741),

Gene: Caterpie_86 Start: 56528, Stop: 56713, Start Num: 19
Candidate Starts for Caterpie_86:
(7, 56270), (13, 56405), (18, 56522), (19, 56528), (Start: 20 @56543 has 3 MA's), (21, 56594), (22, 56609),

Gene: Chop_70 Start: 44799, Stop: 45035, Start Num: 16
Candidate Starts for Chop_70:
(4, 44526), (5, 44577), (13, 44742), (14, 44748), (15, 44757), (Start: 16 @44799 has 15 MA's), (17, 44820), (23, 45006),

Gene: DelRio_69 Start: 44721, Stop: 44957, Start Num: 16
Candidate Starts for DelRio_69:
(1, 44037), (2, 44139), (6, 44475), (9, 44547), (12, 44604), (Start: 16 @44721 has 15 MA's), (17, 44742), (23, 44928),

Gene: Dori_79 Start: 57323, Stop: 57493, Start Num: 20
Candidate Starts for Dori_79:
(7, 57050), (8, 57062), (13, 57185), (18, 57302), (19, 57308), (Start: 20 @57323 has 3 MA's), (21, 57374), (22, 57389),

Gene: Francois_68 Start: 43819, Stop: 44055, Start Num: 16
Candidate Starts for Francois_68:
(4, 43546), (5, 43597), (13, 43762), (14, 43768), (15, 43777), (Start: 16 @43819 has 15 MA's), (23, 44026),

Gene: GrandSlam_70 Start: 44799, Stop: 45035, Start Num: 16
Candidate Starts for GrandSlam_70:
(4, 44526), (5, 44577), (13, 44742), (14, 44748), (15, 44757), (Start: 16 @44799 has 15 MA's), (17, 44820), (23, 45006),

Gene: Hamood_70 Start: 44799, Stop: 45035, Start Num: 16
Candidate Starts for Hamood_70:
(4, 44526), (5, 44577), (13, 44742), (14, 44748), (15, 44757), (Start: 16 @44799 has 15 MA's), (17, 44820), (23, 45006),

Gene: JohnLord_82 Start: 55608, Stop: 55805, Start Num: 20
Candidate Starts for JohnLord_82:
(7, 55335), (13, 55470), (18, 55587), (19, 55593), (Start: 20 @55608 has 3 MA's), (21, 55659), (24, 55755),

Gene: Mask_82 Start: 58615, Stop: 58812, Start Num: 20
Candidate Starts for Mask_82:
(7, 58342), (13, 58477), (18, 58594), (19, 58600), (Start: 20 @58615 has 3 MA's), (21, 58666), (24, 58762),

Gene: Mulch_68 Start: 43534, Stop: 43770, Start Num: 16
Candidate Starts for Mulch_68:
(6, 43288), (9, 43360), (10, 43408), (11, 43411), (12, 43417), (Start: 16 @43534 has 15 MA's), (17, 43555), (23, 43741),

Gene: Nadeem_68 Start: 43522, Stop: 43758, Start Num: 16
Candidate Starts for Nadeem_68:

(3, 43156), (6, 43276), (9, 43348), (10, 43396), (11, 43399), (12, 43405), (Start: 16 @43522 has 15 MA's), (17, 43543), (23, 43729),

Gene: NancyRae_67 Start: 43571, Stop: 43807, Start Num: 16
Candidate Starts for NancyRae_67:
(4, 43298), (5, 43349), (13, 43514), (15, 43529), (Start: 16 @43571 has 15 MA's), (17, 43592), (23, 43778),

Gene: Parada_68 Start: 43534, Stop: 43770, Start Num: 16
Candidate Starts for Parada_68:
(6, 43288), (9, 43360), (10, 43408), (11, 43411), (12, 43417), (Start: 16 @43534 has 15 MA's), (17, 43555), (23, 43741),

Gene: Pimento_71 Start: 43653, Stop: 43889, Start Num: 16
Candidate Starts for Pimento_71:
(9, 43479), (12, 43536), (Start: 16 @43653 has 15 MA's), (17, 43674), (23, 43860),

Gene: Sejanus_83 Start: 57471, Stop: 57641, Start Num: 20
Candidate Starts for Sejanus_83:
(7, 57198), (13, 57333), (18, 57450), (19, 57456), (Start: 20 @57471 has 3 MA's), (21, 57522), (22, 57537),

Gene: SussRoloMann_68 Start: 43534, Stop: 43770, Start Num: 16
Candidate Starts for SussRoloMann_68:
(6, 43288), (9, 43360), (10, 43408), (11, 43411), (12, 43417), (Start: 16 @43534 has 15 MA's), (17, 43555), (23, 43741),

Gene: WheatThin_67 Start: 43522, Stop: 43758, Start Num: 16
Candidate Starts for WheatThin_67:
(3, 43156), (6, 43276), (9, 43348), (10, 43396), (11, 43399), (12, 43405), (Start: 16 @43522 has 15 MA's), (17, 43543), (23, 43729),