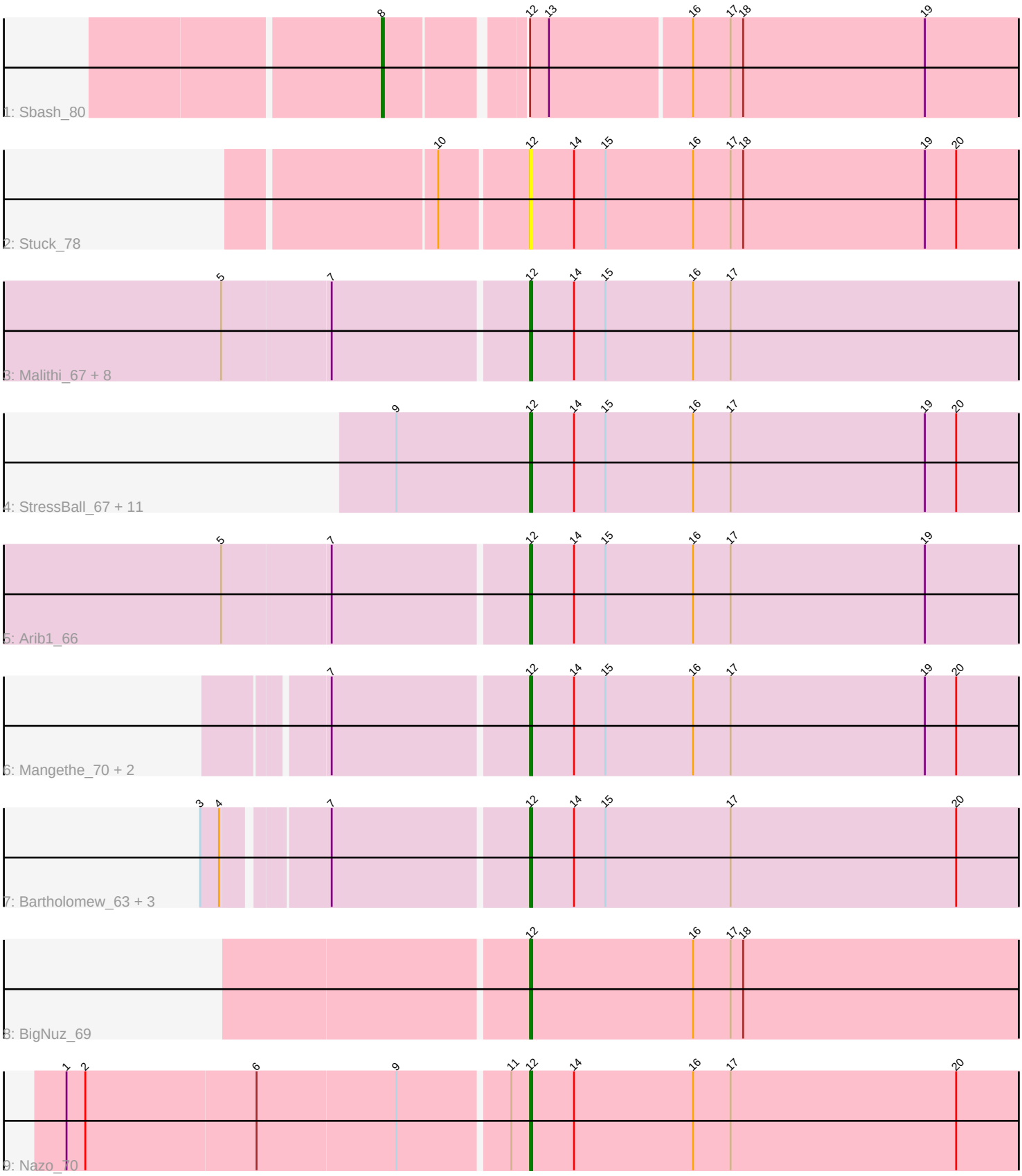
Pham 284031


8
12
13
16
17
18
19
1: Sbash_80
10
12
14
15
16
17
18
19
20
2: Stuck_78
5
7
12
14
15
16
17
3: Malithi_67 + 8
9
12
14
15
16
17
19
20
4: StressBall_67 + 11
5
7
12
14
15
16
17
19
5: Arib1_66
7
12
14
15
16
17
19
20
6: Mangethe_70 + 2
3
4
7
12
14
15
17
20
7: Bartholomew_63 + 3
12
16
17
18
8: BigNuz_69
1
2
6
9
11
12
14
16
17
20
9: Nazo_70

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 284031 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284031 has 33 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Sbash_80
• Track 2 : Stuck_78
• Track 3 : Malithi_67, Sonah_68, Bogie_70, HUHilltop_70, Necropolis_65, Dynamo_67, Phineas_68, Camster_68, Shipwreck_70
• Track 4 : StressBall_67, CactusJack_68, Kari_67, Glaske_67, Phalm_68, Willsammy_69, Megiddo_67, KilKor_68, Fishburne_66, Chubbello_66, Donovan_67, Gavriela_67
• Track 5 : Arib1_66
• Track 6 : Mangethe_70, Majeke_70, Phegasus_70
• Track 7 : Bartholomew_63, Pygmy_71, Venti_65, Techage_68
• Track 8 : BigNuz_69
• Track 9 : Nazo_70

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

The start number called the most often in the published annotations is 12, it was called in 30 of the 31 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Arib1_66, Bartholomew_63, BigNuz_69, Bogie_70, CactusJack_68, Camster_68, Chubbello_66, Donovan_67, Dynamo_67, Fishburne_66, Gavriela_67, Glaske_67, HUHilltop_70, Kari_67, KilKor_68, Majeke_70, Malithi_67, Mangethe_70, Megiddo_67, Nazo_70, Necropolis_65, Phalm_68, Phegasus_70, Phineas_68, Pygmy_71, Shipwreck_70, Sonah_68, StressBall_67, Stuck_78, Techage_68, Venti_65, Willsammy_69,

Genes that have the "Most Annotated" start but do not call it:
• Sbash_80,

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

Summary by start number:

Start 8:
• Found in 1 of 33 (3.0%) of genes in pham
• Manual Annotations of this start: 1 of 31
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sbash_80 (I2),

Start 12:
• Found in 33 of 33 (100.0%) of genes in pham
• Manual Annotations of this start: 30 of 31
• Called 97.0% of time when present
• Phage (with cluster) where this start called: Arib1_66 (P1), Bartholomew_63 (P1), BigNuz_69 (P4), Bogie_70 (P1), CactusJack_68 (P1), Camster_68 (P1), Chubbello_66 (none), Donovan_67 (P1), Dynamo_67 (P1), Fishburne_66 (P1), Gavriela_67 (P1), Glaske_67 (P1), HUHilltop_70 (P1), Kari_67 (P1), KilKor_68 (P1), Majeke_70 (P1), Malithi_67 (P1), Mangethe_70 (P1), Megiddo_67 (P1), Nazo_70 (P4), Necropolis_65 (P1), Phalm_68 (P1), Phegasus_70 (P1), Phineas_68 (P1), Pygmy_71 (P1), Shipwreck_70 (P1), Sonah_68 (P1), StressBall_67 (P1), Stuck_78 (I2), Techage_68 (P1), Venti_65 (P1), Willsammy_69 (P1),

Summary by clusters:

There are 4 clusters represented in this pham: none, P1, I2, P4,

Info for manual annotations of cluster I2:
•Start number 8 was manually annotated 1 time for cluster I2.

Info for manual annotations of cluster P1:
•Start number 12 was manually annotated 28 times for cluster P1.

Info for manual annotations of cluster P4:
•Start number 12 was manually annotated 2 times for cluster P4.

Gene Information:

Gene: Arib1_66 Start: 42262, Stop: 42516, Start Num: 12
Candidate Starts for Arib1_66:
(5, 42121), (7, 42172), (Start: 12 @42262 has 30 MA's), (14, 42283), (15, 42298), (16, 42340), (17, 42358), (19, 42451),

Gene: Bartholomew_63 Start: 41542, Stop: 41796, Start Num: 12
Candidate Starts for Bartholomew_63:
(3, 41398), (4, 41407), (7, 41452), (Start: 12 @41542 has 30 MA's), (14, 41563), (15, 41578), (17, 41638), (20, 41746),

Gene: BigNuz_69 Start: 44457, Stop: 44711, Start Num: 12
Candidate Starts for BigNuz_69:
(Start: 12 @44457 has 30 MA's), (16, 44535), (17, 44553), (18, 44559),

Gene: Bogie_70 Start: 44612, Stop: 44866, Start Num: 12
Candidate Starts for Bogie_70:

(5, 44471), (7, 44522), (Start: 12 @44612 has 30 MA's), (14, 44633), (15, 44648), (16, 44690), (17, 44708),

Gene: CactusJack_68 Start: 44240, Stop: 44494, Start Num: 12
Candidate Starts for CactusJack_68:
(9, 44177), (Start: 12 @44240 has 30 MA's), (14, 44261), (15, 44276), (16, 44318), (17, 44336), (19, 44429), (20, 44444),

Gene: Camster_68 Start: 43073, Stop: 43327, Start Num: 12
Candidate Starts for Camster_68:
(5, 42932), (7, 42983), (Start: 12 @43073 has 30 MA's), (14, 43094), (15, 43109), (16, 43151), (17, 43169),

Gene: Chubbello_66 Start: 42262, Stop: 42516, Start Num: 12
Candidate Starts for Chubbello_66:
(9, 42199), (Start: 12 @42262 has 30 MA's), (14, 42283), (15, 42298), (16, 42340), (17, 42358), (19, 42451), (20, 42466),

Gene: Donovan_67 Start: 43202, Stop: 43456, Start Num: 12
Candidate Starts for Donovan_67:
(9, 43139), (Start: 12 @43202 has 30 MA's), (14, 43223), (15, 43238), (16, 43280), (17, 43298), (19, 43391), (20, 43406),

Gene: Dynamo_67 Start: 42646, Stop: 42900, Start Num: 12
Candidate Starts for Dynamo_67:
(5, 42505), (7, 42556), (Start: 12 @42646 has 30 MA's), (14, 42667), (15, 42682), (16, 42724), (17, 42742),

Gene: Fishburne_66 Start: 43028, Stop: 43282, Start Num: 12
Candidate Starts for Fishburne_66:
(9, 42965), (Start: 12 @43028 has 30 MA's), (14, 43049), (15, 43064), (16, 43106), (17, 43124), (19, 43217), (20, 43232),

Gene: Gavriela_67 Start: 43933, Stop: 44187, Start Num: 12
Candidate Starts for Gavriela_67:
(9, 43870), (Start: 12 @43933 has 30 MA's), (14, 43954), (15, 43969), (16, 44011), (17, 44029), (19, 44122), (20, 44137),

Gene: Glaske_67 Start: 44240, Stop: 44494, Start Num: 12
Candidate Starts for Glaske_67:
(9, 44177), (Start: 12 @44240 has 30 MA's), (14, 44261), (15, 44276), (16, 44318), (17, 44336), (19, 44429), (20, 44444),

Gene: HUHilltop_70 Start: 42869, Stop: 43123, Start Num: 12
Candidate Starts for HUHilltop_70:
(5, 42728), (7, 42779), (Start: 12 @42869 has 30 MA's), (14, 42890), (15, 42905), (16, 42947), (17, 42965),

Gene: Kari_67 Start: 43025, Stop: 43279, Start Num: 12
Candidate Starts for Kari_67:
(9, 42962), (Start: 12 @43025 has 30 MA's), (14, 43046), (15, 43061), (16, 43103), (17, 43121), (19, 43214), (20, 43229),

Gene: KilKor_68 Start: 44933, Stop: 45187, Start Num: 12
Candidate Starts for KilKor_68:
(9, 44870), (Start: 12 @44933 has 30 MA's), (14, 44954), (15, 44969), (16, 45011), (17, 45029), (19, 45122), (20, 45137),

Gene: Majeke_70 Start: 43651, Stop: 43905, Start Num: 12
Candidate Starts for Majeke_70:
(7, 43561), (Start: 12 @43651 has 30 MA's), (14, 43672), (15, 43687), (16, 43729), (17, 43747), (19, 43840), (20, 43855),

Gene: Malithi_67 Start: 42795, Stop: 43049, Start Num: 12
Candidate Starts for Malithi_67:
(5, 42654), (7, 42705), (Start: 12 @42795 has 30 MA's), (14, 42816), (15, 42831), (16, 42873), (17, 42891),

Gene: Mangethe_70 Start: 43651, Stop: 43905, Start Num: 12
Candidate Starts for Mangethe_70:
(7, 43561), (Start: 12 @43651 has 30 MA's), (14, 43672), (15, 43687), (16, 43729), (17, 43747), (19, 43840), (20, 43855),

Gene: Megiddo_67 Start: 44801, Stop: 45055, Start Num: 12
Candidate Starts for Megiddo_67:
(9, 44738), (Start: 12 @44801 has 30 MA's), (14, 44822), (15, 44837), (16, 44879), (17, 44897), (19, 44990), (20, 45005),

Gene: Nazo_70 Start: 44643, Stop: 44897, Start Num: 12
Candidate Starts for Nazo_70:
(1, 44427), (2, 44436), (6, 44517), (9, 44583), (11, 44634), (Start: 12 @44643 has 30 MA's), (14, 44664), (16, 44721), (17, 44739), (20, 44847),

Gene: Necropolis_65 Start: 42235, Stop: 42489, Start Num: 12
Candidate Starts for Necropolis_65:
(5, 42094), (7, 42145), (Start: 12 @42235 has 30 MA's), (14, 42256), (15, 42271), (16, 42313), (17, 42331),

Gene: Phalm_68 Start: 44231, Stop: 44485, Start Num: 12
Candidate Starts for Phalm_68:
(9, 44168), (Start: 12 @44231 has 30 MA's), (14, 44252), (15, 44267), (16, 44309), (17, 44327), (19, 44420), (20, 44435),

Gene: Phegasus_70 Start: 43618, Stop: 43872, Start Num: 12
Candidate Starts for Phegasus_70:
(7, 43528), (Start: 12 @43618 has 30 MA's), (14, 43639), (15, 43654), (16, 43696), (17, 43714), (19, 43807), (20, 43822),

Gene: Phineas_68 Start: 43203, Stop: 43457, Start Num: 12
Candidate Starts for Phineas_68:
(5, 43062), (7, 43113), (Start: 12 @43203 has 30 MA's), (14, 43224), (15, 43239), (16, 43281), (17, 43299),

Gene: Pygmy_71 Start: 44585, Stop: 44839, Start Num: 12
Candidate Starts for Pygmy_71:

(3, 44441), (4, 44450), (7, 44495), (Start: 12 @44585 has 30 MA's), (14, 44606), (15, 44621), (17, 44681), (20, 44789),

Gene: Sbash_80 Start: 51476, Stop: 51787, Start Num: 8
Candidate Starts for Sbash_80:
(Start: 8 @51476 has 1 MA's), (Start: 12 @51536 has 30 MA's), (13, 51545), (16, 51611), (17, 51629), (18, 51635), (19, 51722),

Gene: Shipwreck_70 Start: 44643, Stop: 44897, Start Num: 12
Candidate Starts for Shipwreck_70:
(5, 44502), (7, 44553), (Start: 12 @44643 has 30 MA's), (14, 44664), (15, 44679), (16, 44721), (17, 44739),

Gene: Sonah_68 Start: 42340, Stop: 42594, Start Num: 12
Candidate Starts for Sonah_68:
(5, 42199), (7, 42250), (Start: 12 @42340 has 30 MA's), (14, 42361), (15, 42376), (16, 42418), (17, 42436),

Gene: StressBall_67 Start: 43933, Stop: 44187, Start Num: 12
Candidate Starts for StressBall_67:
(9, 43870), (Start: 12 @43933 has 30 MA's), (14, 43954), (15, 43969), (16, 44011), (17, 44029), (19, 44122), (20, 44137),

Gene: Stuck_78 Start: 50794, Stop: 51048, Start Num: 12
Candidate Starts for Stuck_78:
(10, 50755), (Start: 12 @50794 has 30 MA's), (14, 50815), (15, 50830), (16, 50872), (17, 50890), (18, 50896), (19, 50983), (20, 50998),

Gene: Techage_68 Start: 43134, Stop: 43388, Start Num: 12
Candidate Starts for Techage_68:
(3, 42990), (4, 42999), (7, 43044), (Start: 12 @43134 has 30 MA's), (14, 43155), (15, 43170), (17, 43230), (20, 43338),

Gene: Venti_65 Start: 41542, Stop: 41796, Start Num: 12
Candidate Starts for Venti_65:
(3, 41398), (4, 41407), (7, 41452), (Start: 12 @41542 has 30 MA's), (14, 41563), (15, 41578), (17, 41638), (20, 41746),

Gene: Willsammy_69 Start: 44417, Stop: 44671, Start Num: 12
Candidate Starts for Willsammy_69:
(9, 44354), (Start: 12 @44417 has 30 MA's), (14, 44438), (15, 44453), (16, 44495), (17, 44513), (19, 44606), (20, 44621),