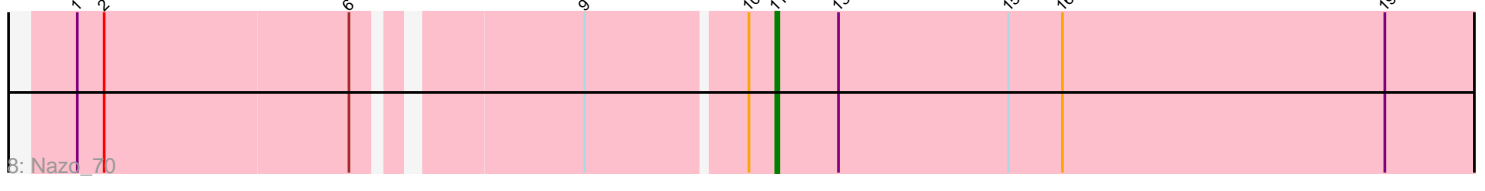
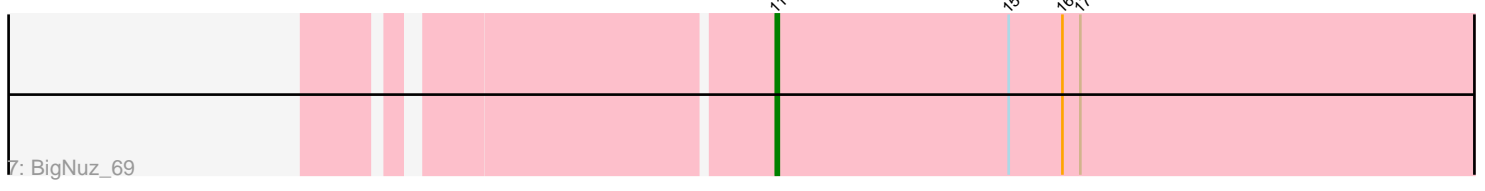
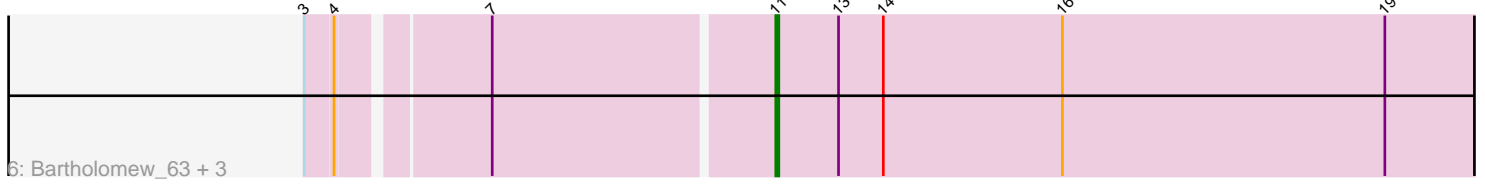
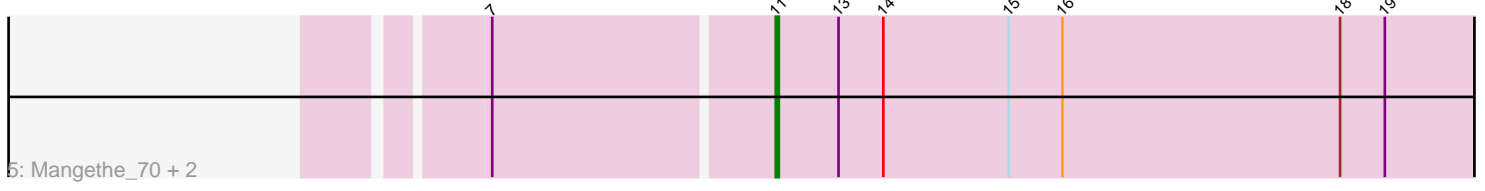
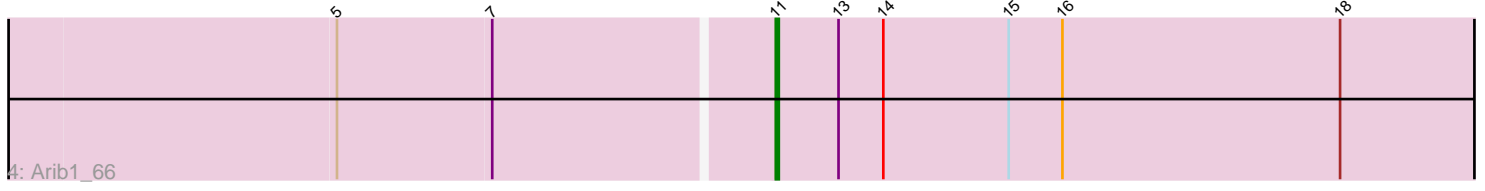
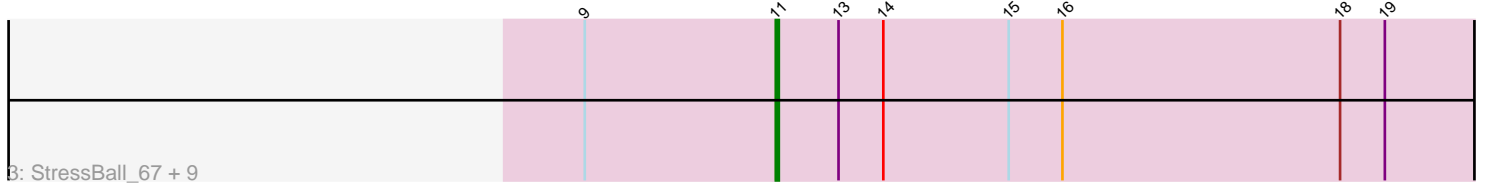
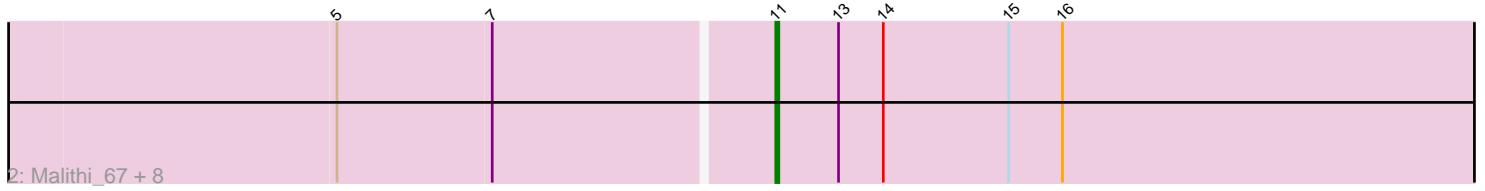
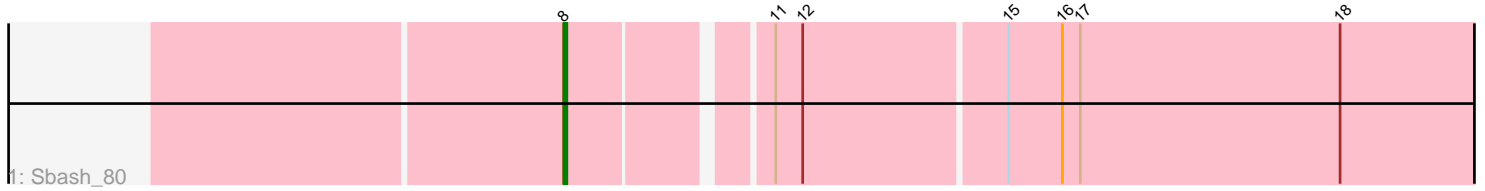


Pham 163830



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 163830 Report

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

Pham number 163830 has 30 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Sbash_80
- Track 2 : Malithi_67, Sonah_68, Bogie_70, HUHilltop_70, Necropolis_65, Dynamo_67, Phineas_68, Camster_68, Shipwreck_70
- Track 3 : StressBall_67, CactusJack_68, Kari_64, Glaske_67, Phalm_68, Willsammy_69, Megiddo_67, KilKor_68, Fishburne_66, Donovan_67
- Track 4 : Arib1_66
- Track 5 : Mangethe_70, Majeke_70, Phegasus_70
- Track 6 : Bartholomew_63, Pygmy_70, Venti_65, Techage_68
- Track 7 : BigNuz_69
- Track 8 : 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 11, it was called in 27 of the 28 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, Donovan_67, Dynamo_67, Fishburne_66, Glaske_67, HUHilltop_70, Kari_64, KilKor_68, Majeke_70, Malithi_67, Mangethe_70, Megiddo_67, Nazo_70, Necropolis_65, Phalm_68, Phegasus_70, Phineas_68, Pygmy_70, Shipwreck_70, Sonah_68, StressBall_67, 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 30 (3.3%) of genes in pham
- Manual Annotations of this start: 1 of 28

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sbash_80 (I2),

Start 11:

- Found in 30 of 30 (100.0%) of genes in pham
- Manual Annotations of this start: 27 of 28
- Called 96.7% 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), Donovan_67 (P1), Dynamo_67 (P1), Fishburne_66 (P1), Glaske_67 (P1), HUHilltop_70 (P1), Kari_64 (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_70 (P1), Shipwreck_70 (P1), Sonah_68 (P1), StressBall_67 (P1), Techage_68 (P1), Venti_65 (P1), Willsammy_69 (P1),

Summary by clusters:

There are 3 clusters represented in this pham: 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 11 was manually annotated 25 times for cluster P1.

Info for manual annotations of cluster P4:

- Start number 11 was manually annotated 2 times for cluster P4.

Gene Information:

Gene: Arib1_66 Start: 42262, Stop: 42516, Start Num: 11

Candidate Starts for Arib1_66:

(5, 42121), (7, 42172), (Start: 11 @42262 has 27 MA's), (13, 42283), (14, 42298), (15, 42340), (16, 42358), (18, 42451),

Gene: Bartholomew_63 Start: 41542, Stop: 41796, Start Num: 11

Candidate Starts for Bartholomew_63:

(3, 41398), (4, 41407), (7, 41452), (Start: 11 @41542 has 27 MA's), (13, 41563), (14, 41578), (16, 41638), (19, 41746),

Gene: BigNuz_69 Start: 44457, Stop: 44711, Start Num: 11

Candidate Starts for BigNuz_69:

(Start: 11 @44457 has 27 MA's), (15, 44535), (16, 44553), (17, 44559),

Gene: Bogie_70 Start: 44612, Stop: 44866, Start Num: 11

Candidate Starts for Bogie_70:

(5, 44471), (7, 44522), (Start: 11 @44612 has 27 MA's), (13, 44633), (14, 44648), (15, 44690), (16, 44708),

Gene: CactusJack_68 Start: 44240, Stop: 44494, Start Num: 11

Candidate Starts for CactusJack_68:

(9, 44177), (Start: 11 @44240 has 27 MA's), (13, 44261), (14, 44276), (15, 44318), (16, 44336), (18, 44429), (19, 44444),

Gene: Camster_68 Start: 43073, Stop: 43327, Start Num: 11

Candidate Starts for Camster_68:

(5, 42932), (7, 42983), (Start: 11 @43073 has 27 MA's), (13, 43094), (14, 43109), (15, 43151), (16, 43169),

Gene: Donovan_67 Start: 43202, Stop: 43456, Start Num: 11

Candidate Starts for Donovan_67:

(9, 43139), (Start: 11 @43202 has 27 MA's), (13, 43223), (14, 43238), (15, 43280), (16, 43298), (18, 43391), (19, 43406),

Gene: Dynamo_67 Start: 42646, Stop: 42900, Start Num: 11

Candidate Starts for Dynamo_67:

(5, 42505), (7, 42556), (Start: 11 @42646 has 27 MA's), (13, 42667), (14, 42682), (15, 42724), (16, 42742),

Gene: Fishburne_66 Start: 43028, Stop: 43282, Start Num: 11

Candidate Starts for Fishburne_66:

(9, 42965), (Start: 11 @43028 has 27 MA's), (13, 43049), (14, 43064), (15, 43106), (16, 43124), (18, 43217), (19, 43232),

Gene: Glaske_67 Start: 44240, Stop: 44494, Start Num: 11

Candidate Starts for Glaske_67:

(9, 44177), (Start: 11 @44240 has 27 MA's), (13, 44261), (14, 44276), (15, 44318), (16, 44336), (18, 44429), (19, 44444),

Gene: HUHilltop_70 Start: 42869, Stop: 43123, Start Num: 11

Candidate Starts for HUHilltop_70:

(5, 42728), (7, 42779), (Start: 11 @42869 has 27 MA's), (13, 42890), (14, 42905), (15, 42947), (16, 42965),

Gene: Kari_64 Start: 43025, Stop: 43279, Start Num: 11

Candidate Starts for Kari_64:

(9, 42962), (Start: 11 @43025 has 27 MA's), (13, 43046), (14, 43061), (15, 43103), (16, 43121), (18, 43214), (19, 43229),

Gene: KilKor_68 Start: 44933, Stop: 45187, Start Num: 11

Candidate Starts for KilKor_68:

(9, 44870), (Start: 11 @44933 has 27 MA's), (13, 44954), (14, 44969), (15, 45011), (16, 45029), (18, 45122), (19, 45137),

Gene: Majeke_70 Start: 43651, Stop: 43905, Start Num: 11

Candidate Starts for Majeke_70:

(7, 43561), (Start: 11 @43651 has 27 MA's), (13, 43672), (14, 43687), (15, 43729), (16, 43747), (18, 43840), (19, 43855),

Gene: Malithi_67 Start: 42795, Stop: 43049, Start Num: 11

Candidate Starts for Malithi_67:

(5, 42654), (7, 42705), (Start: 11 @42795 has 27 MA's), (13, 42816), (14, 42831), (15, 42873), (16, 42891),

Gene: Mangethe_70 Start: 43651, Stop: 43905, Start Num: 11

Candidate Starts for Mangethe_70:

(7, 43561), (Start: 11 @43651 has 27 MA's), (13, 43672), (14, 43687), (15, 43729), (16, 43747), (18, 43840), (19, 43855),

Gene: Megiddo_67 Start: 44801, Stop: 45055, Start Num: 11

Candidate Starts for Megiddo_67:

(9, 44738), (Start: 11 @44801 has 27 MA's), (13, 44822), (14, 44837), (15, 44879), (16, 44897), (18, 44990), (19, 45005),

Gene: Nazo_70 Start: 44643, Stop: 44897, Start Num: 11

Candidate Starts for Nazo_70:

(1, 44427), (2, 44436), (6, 44517), (9, 44583), (10, 44634), (Start: 11 @44643 has 27 MA's), (13, 44664), (15, 44721), (16, 44739), (19, 44847),

Gene: Necropolis_65 Start: 42235, Stop: 42489, Start Num: 11

Candidate Starts for Necropolis_65:

(5, 42094), (7, 42145), (Start: 11 @42235 has 27 MA's), (13, 42256), (14, 42271), (15, 42313), (16, 42331),

Gene: Phalm_68 Start: 44231, Stop: 44485, Start Num: 11

Candidate Starts for Phalm_68:

(9, 44168), (Start: 11 @44231 has 27 MA's), (13, 44252), (14, 44267), (15, 44309), (16, 44327), (18, 44420), (19, 44435),

Gene: Phegasus_70 Start: 43618, Stop: 43872, Start Num: 11

Candidate Starts for Phegasus_70:

(7, 43528), (Start: 11 @43618 has 27 MA's), (13, 43639), (14, 43654), (15, 43696), (16, 43714), (18, 43807), (19, 43822),

Gene: Phineas_68 Start: 43203, Stop: 43457, Start Num: 11

Candidate Starts for Phineas_68:

(5, 43062), (7, 43113), (Start: 11 @43203 has 27 MA's), (13, 43224), (14, 43239), (15, 43281), (16, 43299),

Gene: Pygmy_70 Start: 44585, Stop: 44839, Start Num: 11

Candidate Starts for Pygmy_70:

(3, 44441), (4, 44450), (7, 44495), (Start: 11 @44585 has 27 MA's), (13, 44606), (14, 44621), (16, 44681), (19, 44789),

Gene: Sbash_80 Start: 51476, Stop: 51787, Start Num: 8

Candidate Starts for Sbash_80:

(Start: 8 @51476 has 1 MA's), (Start: 11 @51536 has 27 MA's), (12, 51545), (15, 51611), (16, 51629), (17, 51635), (18, 51722),

Gene: Shipwreck_70 Start: 44643, Stop: 44897, Start Num: 11

Candidate Starts for Shipwreck_70:

(5, 44502), (7, 44553), (Start: 11 @44643 has 27 MA's), (13, 44664), (14, 44679), (15, 44721), (16, 44739),

Gene: Sonah_68 Start: 42340, Stop: 42594, Start Num: 11

Candidate Starts for Sonah_68:

(5, 42199), (7, 42250), (Start: 11 @42340 has 27 MA's), (13, 42361), (14, 42376), (15, 42418), (16, 42436),

Gene: StressBall_67 Start: 43933, Stop: 44187, Start Num: 11

Candidate Starts for StressBall_67:

(9, 43870), (Start: 11 @43933 has 27 MA's), (13, 43954), (14, 43969), (15, 44011), (16, 44029), (18, 44122), (19, 44137),

Gene: Techage_68 Start: 43134, Stop: 43388, Start Num: 11

Candidate Starts for Techage_68:

(3, 42990), (4, 42999), (7, 43044), (Start: 11 @43134 has 27 MA's), (13, 43155), (14, 43170), (16, 43230), (19, 43338),

Gene: Venti_65 Start: 41542, Stop: 41796, Start Num: 11

Candidate Starts for Venti_65:

(3, 41398), (4, 41407), (7, 41452), (Start: 11 @41542 has 27 MA's), (13, 41563), (14, 41578), (16, 41638), (19, 41746),

Gene: Willsammy_69 Start: 44417, Stop: 44671, Start Num: 11

Candidate Starts for Willsammy_69:

(9, 44354), (Start: 11 @44417 has 27 MA's), (13, 44438), (14, 44453), (15, 44495), (16, 44513), (18, 44606), (19, 44621),