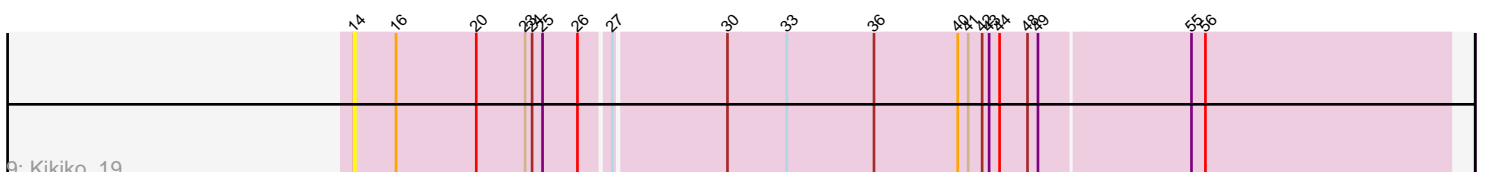
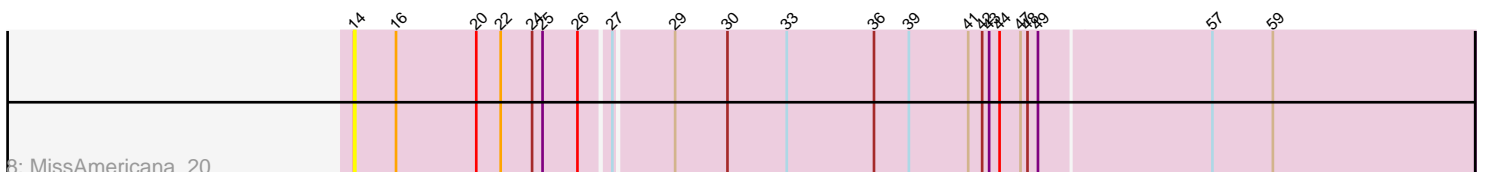
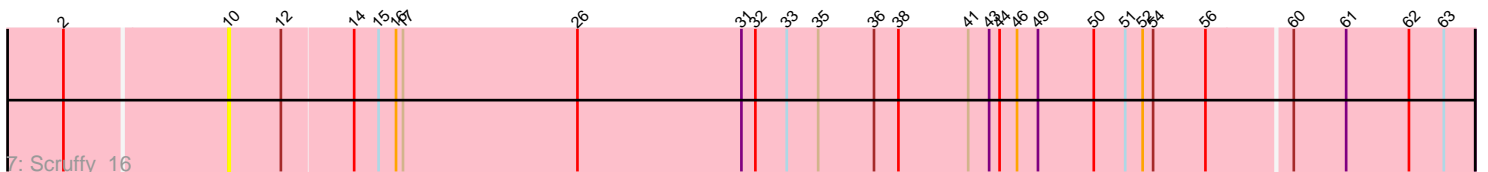
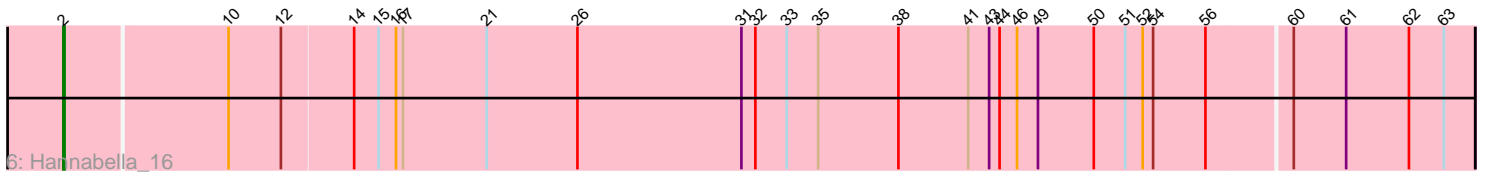
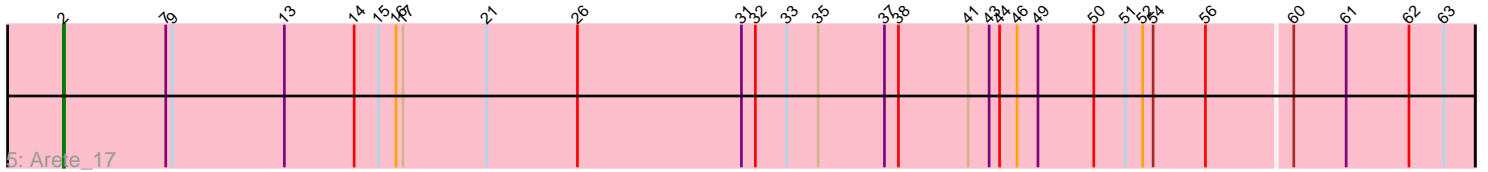
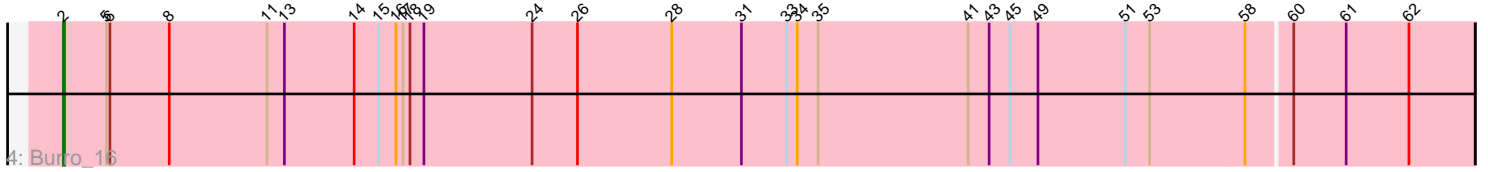
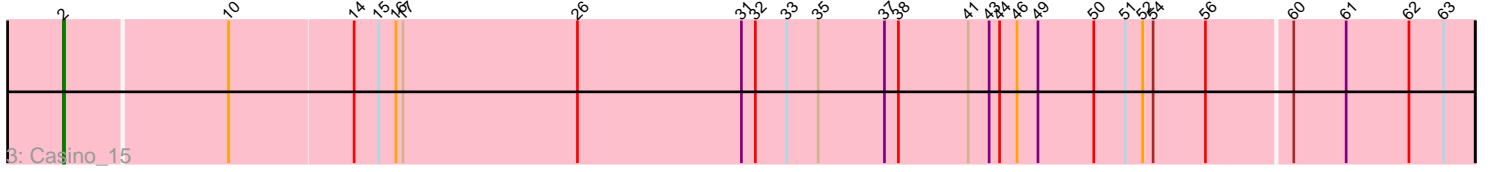
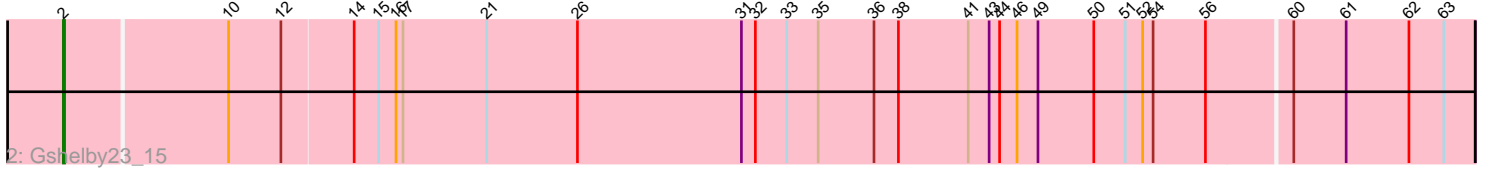
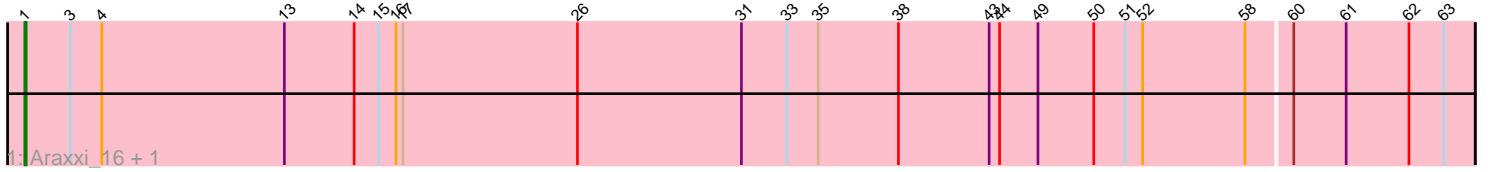


Pham 7042



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 7042 Report

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

Pham number 7042 has 10 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Araxxi_16, DoTi_16
- Track 2 : Gshelby23_15
- Track 3 : Casino_15
- Track 4 : Burro_16
- Track 5 : Arete_17
- Track 6 : Hannabella_16
- Track 7 : Scruffy_16
- Track 8 : MissAmericana_20
- Track 9 : Kikiko_19

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

The start number called the most often in the published annotations is 2, it was called in 5 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arete_17, Burro_16, Casino_15, Gshelby23_15, Hannabella_16,

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

- Scruffy_16,

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

- Araxxi_16, DoTi_16, Kikiko_19, MissAmericana_20,

Summary by start number:

Start 1:

- Found in 2 of 10 (20.0%) of genes in pham
- Manual Annotations of this start: 2 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Araxxi_16 (EM1), DoTi_16 (EM1),

Start 2:

- Found in 6 of 10 (60.0%) of genes in pham

- Manual Annotations of this start: 5 of 7
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Arete_17 (EM1), Burro_16 (EM1), Casino_15 (EM1), Gshelby23_15 (EM1), Hannabella_16 (EM1),

Start 10:

- Found in 4 of 10 (40.0%) of genes in pham
- No Manual Annotations of this start.
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Scruffy_16 (EM1),

Start 14:

- Found in 10 of 10 (100.0%) of genes in pham
- No Manual Annotations of this start.
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Kikiko_19 (EM2), MissAmericana_20 (EM2),

Summary by clusters:

There are 2 clusters represented in this pham: EM1, EM2,

Info for manual annotations of cluster EM1:

- Start number 1 was manually annotated 2 times for cluster EM1.
- Start number 2 was manually annotated 5 times for cluster EM1.

Gene Information:

Gene: Araxxi_16 Start: 13030, Stop: 11792, Start Num: 1

Candidate Starts for Araxxi_16:

(Start: 1 @13030 has 2 MA's), (3, 12991), (4, 12964), (13, 12808), (14, 12748), (15, 12727), (16, 12712), (17, 12706), (26, 12556), (31, 12415), (33, 12376), (35, 12349), (38, 12280), (43, 12202), (44, 12193), (49, 12160), (50, 12112), (51, 12085), (52, 12070), (58, 11983), (60, 11947), (61, 11902), (62, 11848), (63, 11818),

Gene: Arete_17 Start: 12927, Stop: 11722, Start Num: 2

Candidate Starts for Arete_17:

(Start: 2 @12927 has 5 MA's), (7, 12840), (9, 12834), (13, 12738), (14, 12678), (15, 12657), (16, 12642), (17, 12636), (21, 12564), (26, 12486), (31, 12345), (32, 12333), (33, 12306), (35, 12279), (37, 12222), (38, 12210), (41, 12150), (43, 12132), (44, 12123), (46, 12108), (49, 12090), (50, 12042), (51, 12015), (52, 12000), (54, 11991), (56, 11946), (60, 11877), (61, 11832), (62, 11778), (63, 11748),

Gene: Burro_16 Start: 12213, Stop: 11008, Start Num: 2

Candidate Starts for Burro_16:

(Start: 2 @12213 has 5 MA's), (5, 12177), (6, 12174), (8, 12123), (11, 12039), (13, 12024), (14, 11964), (15, 11943), (16, 11928), (17, 11922), (18, 11916), (19, 11904), (24, 11811), (26, 11772), (28, 11691), (31, 11631), (33, 11592), (34, 11583), (35, 11565), (41, 11436), (43, 11418), (45, 11400), (49, 11376), (51, 11301), (53, 11280), (58, 11199), (60, 11163), (61, 11118), (62, 11064),

Gene: Casino_15 Start: 12746, Stop: 11550, Start Num: 2

Candidate Starts for Casino_15:

(Start: 2 @12746 has 5 MA's), (10, 12611), (14, 12506), (15, 12485), (16, 12470), (17, 12464), (26, 12314), (31, 12173), (32, 12161), (33, 12134), (35, 12107), (37, 12050), (38, 12038), (41, 11978), (43, 11960), (44, 11951), (46, 11936), (49, 11918), (50, 11870), (51, 11843), (52, 11828), (54, 11819), (56, 11774), (60, 11705), (61, 11660), (62, 11606), (63, 11576),

Gene: DoTi_16 Start: 13024, Stop: 11786, Start Num: 1

Candidate Starts for DoTi_16:

(Start: 1 @13024 has 2 MA's), (3, 12985), (4, 12958), (13, 12802), (14, 12742), (15, 12721), (16, 12706), (17, 12700), (26, 12550), (31, 12409), (33, 12370), (35, 12343), (38, 12274), (43, 12196), (44, 12187), (49, 12154), (50, 12106), (51, 12079), (52, 12064), (58, 11977), (60, 11941), (61, 11896), (62, 11842), (63, 11812),

Gene: Gshelby23_15 Start: 12864, Stop: 11668, Start Num: 2

Candidate Starts for Gshelby23_15:

(Start: 2 @12864 has 5 MA's), (10, 12729), (12, 12684), (14, 12624), (15, 12603), (16, 12588), (17, 12582), (21, 12510), (26, 12432), (31, 12291), (32, 12279), (33, 12252), (35, 12225), (36, 12177), (38, 12156), (41, 12096), (43, 12078), (44, 12069), (46, 12054), (49, 12036), (50, 11988), (51, 11961), (52, 11946), (54, 11937), (56, 11892), (60, 11823), (61, 11778), (62, 11724), (63, 11694),

Gene: Hannabella_16 Start: 12744, Stop: 11548, Start Num: 2

Candidate Starts for Hannabella_16:

(Start: 2 @12744 has 5 MA's), (10, 12609), (12, 12564), (14, 12504), (15, 12483), (16, 12468), (17, 12462), (21, 12390), (26, 12312), (31, 12171), (32, 12159), (33, 12132), (35, 12105), (38, 12036), (41, 11976), (43, 11958), (44, 11949), (46, 11934), (49, 11916), (50, 11868), (51, 11841), (52, 11826), (54, 11817), (56, 11772), (60, 11703), (61, 11658), (62, 11604), (63, 11574),

Gene: Kikiko_19 Start: 13427, Stop: 12504, Start Num: 14

Candidate Starts for Kikiko_19:

(14, 13427), (16, 13391), (20, 13322), (23, 13280), (24, 13274), (25, 13265), (26, 13235), (27, 13211), (30, 13118), (33, 13067), (36, 12992), (40, 12920), (41, 12911), (42, 12899), (43, 12893), (44, 12884), (48, 12860), (49, 12851), (55, 12725), (56, 12713),

Gene: MissAmericana_20 Start: 13577, Stop: 12633, Start Num: 14

Candidate Starts for MissAmericana_20:

(14, 13577), (16, 13541), (20, 13472), (22, 13451), (24, 13424), (25, 13415), (26, 13385), (27, 13361), (29, 13313), (30, 13268), (33, 13217), (36, 13142), (39, 13112), (41, 13061), (42, 13049), (43, 13043), (44, 13034), (47, 13016), (48, 13010), (49, 13001), (57, 12857), (59, 12806),

Gene: Scruffy_16 Start: 13008, Stop: 11947, Start Num: 10

Candidate Starts for Scruffy_16:

(Start: 2 @13143 has 5 MA's), (10, 13008), (12, 12963), (14, 12903), (15, 12882), (16, 12867), (17, 12861), (26, 12711), (31, 12570), (32, 12558), (33, 12531), (35, 12504), (36, 12456), (38, 12435), (41, 12375), (43, 12357), (44, 12348), (46, 12333), (49, 12315), (50, 12267), (51, 12240), (52, 12225), (54, 12216), (56, 12171), (60, 12102), (61, 12057), (62, 12003), (63, 11973),