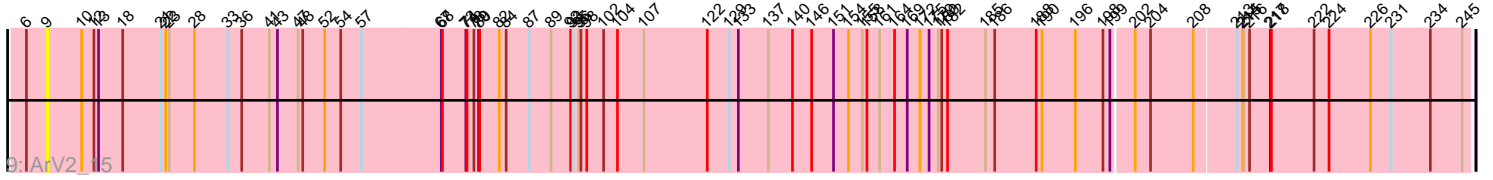
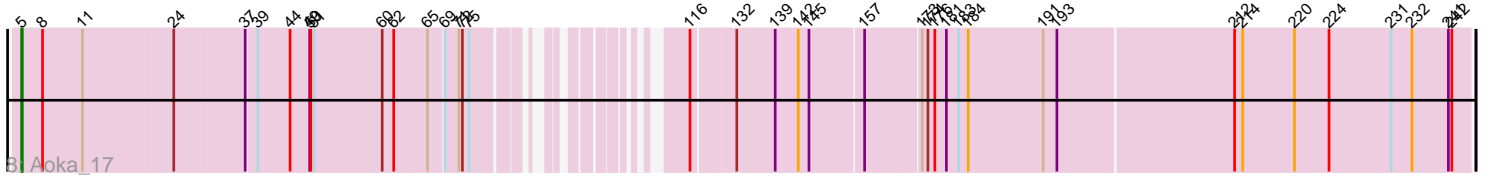
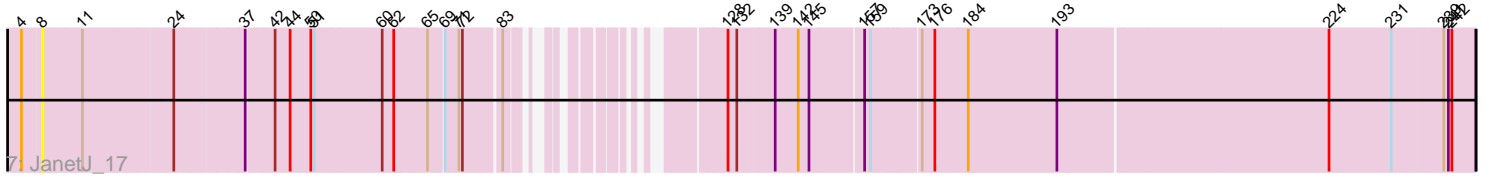
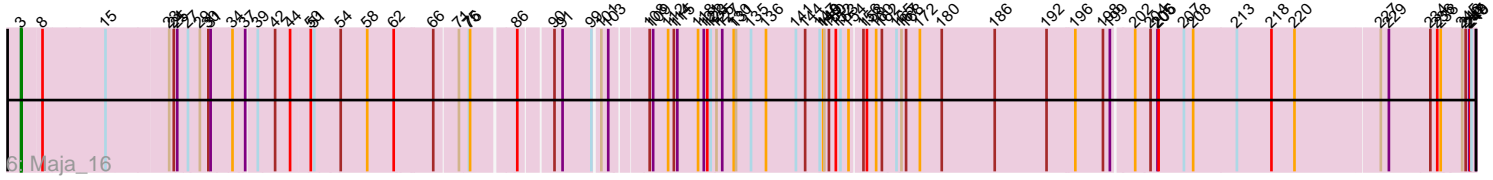
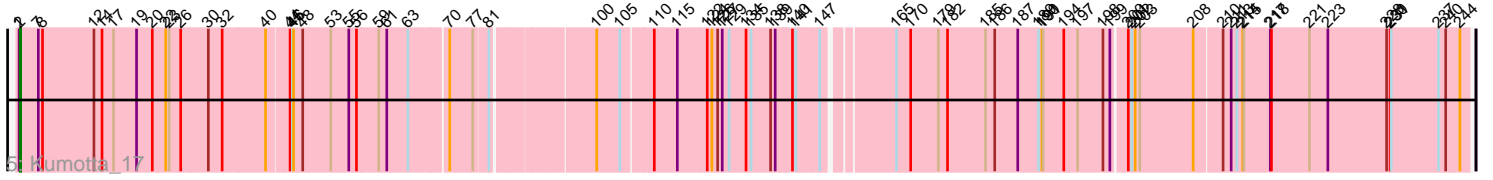
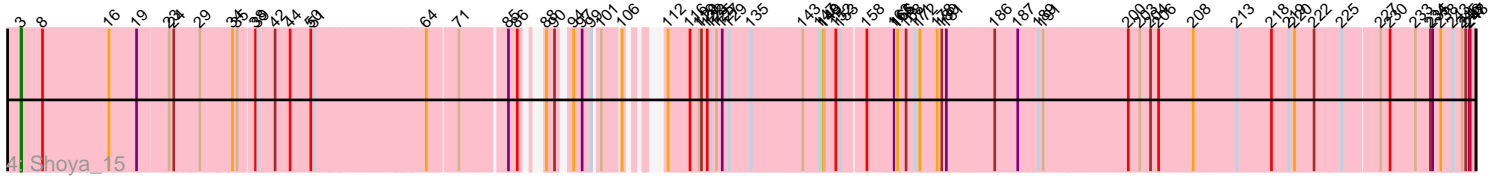
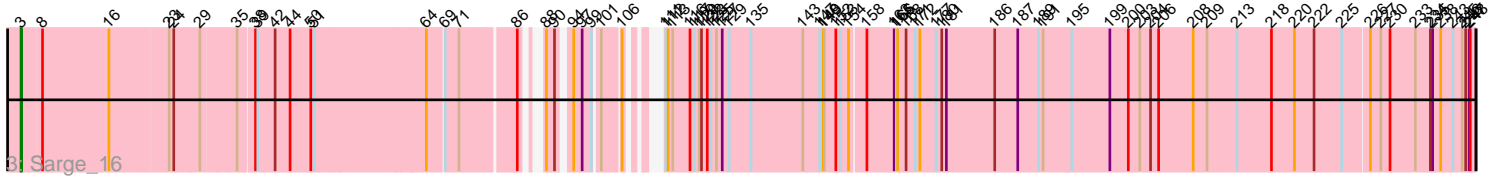
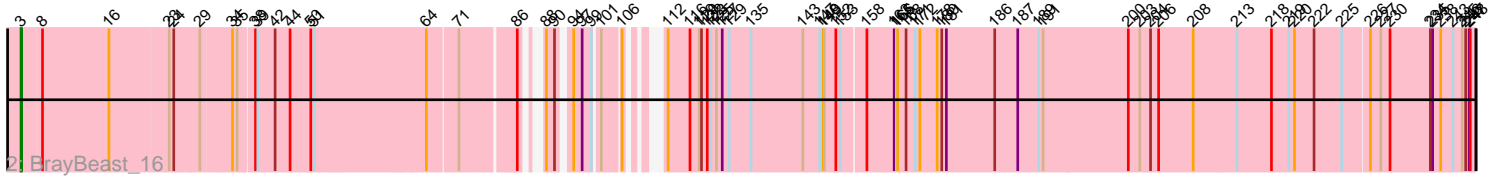
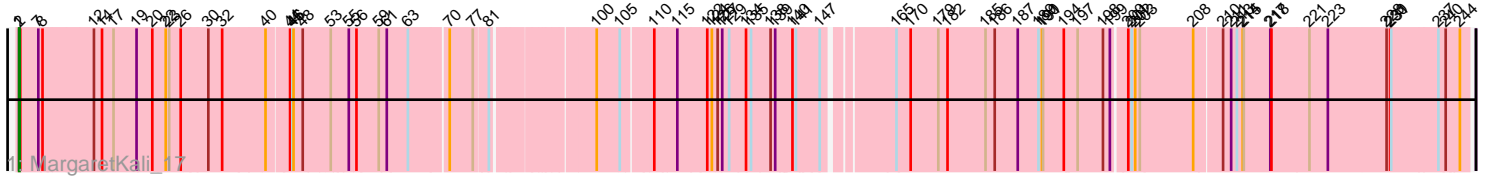


Pham 158403



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 158403 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158403 has 9 members, 2 are drafts.

Phages represented in each track:

- Track 1 : MargaretKali_17
- Track 2 : BrayBeast_16
- Track 3 : Sarge_16
- Track 4 : Shoya_15
- Track 5 : Kumotta_17
- Track 6 : Maja_16
- Track 7 : JanetJ_17
- Track 8 : Aoka_17
- Track 9 : ArV2_15

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 4 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BrayBeast_16, Maja_16, Sarge_16, Shoya_15,

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

-

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

- Aoka_17, ArV2_15, JanetJ_17, Kumotta_17, MargaretKali_17,

Summary by start number:

Start 1:

- Found in 2 of 9 (22.2%) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 50.0% of time when present
- Phage (with cluster) where this start called: MargaretKali_17 (FB),

Start 2:

- Found in 2 of 9 (22.2%) of genes in pham

- Manual Annotations of this start: 1 of 7
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Kumotta_17 (FB),

Start 3:

- Found in 4 of 9 (44.4%) of genes in pham
- Manual Annotations of this start: 4 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BrayBeast_16 (FB), Maja_16 (FO), Sarge_16 (FB), Shoya_15 (FB),

Start 5:

- Found in 1 of 9 (11.1%) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aoka_17 (FO),

Start 8:

- Found in 8 of 9 (88.9%) of genes in pham
- No Manual Annotations of this start.
- Called 12.5% of time when present
- Phage (with cluster) where this start called: JanetJ_17 (FO),

Start 9:

- Found in 1 of 9 (11.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ArV2_15 (singleton),

Summary by clusters:

There are 3 clusters represented in this pham: FB, singleton, FO,

Info for manual annotations of cluster FB:

- Start number 1 was manually annotated 1 time for cluster FB.
- Start number 2 was manually annotated 1 time for cluster FB.
- Start number 3 was manually annotated 3 times for cluster FB.

Info for manual annotations of cluster FO:

- Start number 3 was manually annotated 1 time for cluster FO.
- Start number 5 was manually annotated 1 time for cluster FO.

Gene Information:

Gene: Aoka_17 Start: 10956, Stop: 14201, Start Num: 5

Candidate Starts for Aoka_17:

(Start: 5 @10956 has 1 MA's), (8, 11001), (11, 11094), (24, 11316), (37, 11478), (39, 11502), (44, 11583), (49, 11625), (50, 11628), (51, 11637), (60, 11808), (62, 11838), (65, 11919), (69, 11955), (71, 11991), (72, 12000), (75, 12012), (116, 12306), (132, 12396), (139, 12474), (142, 12528), (145, 12552), (157, 12681), (173, 12813), (174, 12828), (176, 12846), (181, 12870), (183, 12900), (184, 12921), (191, 13113), (193, 13149), (212, 13593), (214, 13614), (220, 13749), (224, 13839), (231,

14001), (232, 14055), (241, 14145), (242, 14154),

Gene: ArV2_15 Start: 9152, Stop: 12778, Start Num: 9

Candidate Starts for ArV2_15:

(6, 9098), (9, 9152), (10, 9242), (12, 9272), (13, 9284), (18, 9347), (21, 9446), (22, 9458), (23, 9467), (28, 9533), (33, 9614), (36, 9650), (41, 9722), (43, 9743), (47, 9797), (48, 9809), (52, 9866), (54, 9908), (57, 9962), (67, 10166), (68, 10169), (73, 10229), (74, 10232), (78, 10250), (79, 10262), (80, 10265), (82, 10316), (84, 10334), (87, 10394), (89, 10451), (92, 10502), (93, 10508), (95, 10523), (96, 10529), (98, 10544), (102, 10586), (104, 10622), (107, 10691), (122, 10856), (129, 10913), (133, 10937), (137, 11009), (140, 11069), (146, 11117), (151, 11171), (154, 11210), (155, 11246), (158, 11258), (161, 11291), (164, 11330), (169, 11363), (172, 11396), (175, 11420), (179, 11444), (180, 11453), (182, 11468), (185, 11567), (186, 11591), (188, 11699), (190, 11714), (196, 11801), (198, 11873), (199, 11891), (202, 11942), (204, 11981), (208, 12092), (213, 12194), (214, 12209), (215, 12212), (216, 12227), (217, 12281), (218, 12284), (222, 12392), (224, 12431), (226, 12533), (231, 12587), (234, 12683), (245, 12761),

Gene: BrayBeast_16 Start: 9776, Stop: 13165, Start Num: 3

Candidate Starts for BrayBeast_16:

(Start: 3 @9776 has 4 MA's), (8, 9821), (16, 9983), (23, 10124), (24, 10136), (29, 10196), (34, 10268), (35, 10280), (38, 10316), (39, 10322), (42, 10364), (44, 10403), (50, 10448), (51, 10457), (64, 10736), (71, 10811), (86, 10931), (88, 10949), (90, 10964), (94, 10988), (97, 11006), (99, 11030), (101, 11042), (106, 11078), (112, 11111), (116, 11168), (119, 11192), (120, 11198), (122, 11213), (123, 11222), (125, 11234), (127, 11249), (129, 11267), (135, 11324), (143, 11459), (147, 11501), (148, 11510), (149, 11513), (152, 11543), (153, 11555), (158, 11612), (163, 11681), (165, 11687), (166, 11690), (168, 11711), (171, 11735), (172, 11747), (178, 11792), (180, 11804), (181, 11816), (186, 11942), (187, 12002), (189, 12056), (191, 12068), (200, 12287), (203, 12317), (204, 12344), (206, 12365), (208, 12455), (213, 12566), (218, 12656), (219, 12701), (220, 12716), (222, 12767), (225, 12839), (226, 12899), (227, 12926), (230, 12950), (234, 13052), (235, 13058), (238, 13079), (243, 13109), (245, 13133), (246, 13142), (247, 13151), (248, 13154),

Gene: JanetJ_17 Start: 10815, Stop: 14018, Start Num: 8

Candidate Starts for JanetJ_17:

(4, 10770), (8, 10815), (11, 10908), (24, 11130), (37, 11292), (42, 11358), (44, 11397), (50, 11442), (51, 11451), (60, 11622), (62, 11652), (65, 11733), (69, 11769), (71, 11805), (72, 11814), (83, 11892), (128, 12192), (132, 12210), (139, 12288), (142, 12342), (145, 12366), (157, 12495), (159, 12510), (173, 12627), (176, 12660), (184, 12735), (193, 12963), (224, 13650), (231, 13812), (239, 13938), (241, 13950), (242, 13959),

Gene: Kumotta_17 Start: 10633, Stop: 14061, Start Num: 2

Candidate Starts for Kumotta_17:

(Start: 1 @10630 has 1 MA's), (Start: 2 @10633 has 1 MA's), (7, 10669), (8, 10678), (12, 10801), (14, 10822), (17, 10852), (19, 10906), (20, 10939), (22, 10972), (23, 10981), (26, 11011), (30, 11074), (32, 11110), (40, 11215), (44, 11269), (45, 11275), (46, 11278), (48, 11302), (53, 11362), (55, 11401), (56, 11416), (59, 11473), (61, 11491), (63, 11545), (70, 11641), (77, 11701), (81, 11731), (100, 11950), (105, 12004), (110, 12073), (115, 12127), (122, 12202), (124, 12214), (126, 12223), (127, 12232), (129, 12250), (134, 12292), (135, 12304), (138, 12352), (139, 12364), (140, 12403), (141, 12412), (147, 12469), (165, 12622), (170, 12658), (179, 12730), (182, 12754), (185, 12853), (186, 12877), (187, 12937), (189, 12991), (190, 13000), (191, 13003), (194, 13057), (197, 13090), (198, 13156), (199, 13174), (200, 13207), (201, 13216), (202, 13225), (203, 13237), (208, 13375), (210, 13441), (211, 13462), (213, 13477), (214, 13492), (215, 13495), (217, 13564), (218, 13567), (221, 13663), (223, 13711), (228, 13858), (230, 13867), (231, 13870), (237, 13987), (240, 14005), (244, 14038),

Gene: Maja_16 Start: 10263, Stop: 13793, Start Num: 3

Candidate Starts for Maja_16:

(Start: 3 @10263 has 4 MA's), (8, 10308), (15, 10461), (23, 10611), (24, 10623), (25, 10629), (27, 10653), (29, 10683), (30, 10698), (31, 10704), (34, 10755), (37, 10785), (39, 10809), (42, 10851), (44, 10890), (50, 10935), (51, 10944), (54, 11007), (58, 11076), (62, 11145), (66, 11241), (71, 11298), (75, 11319), (76, 11322), (86, 11418), (90, 11493), (91, 11514), (99, 11589), (101, 11601), (103, 11619), (108, 11703), (109, 11712), (112, 11751), (114, 11766), (115, 11775), (118, 11829), (121, 11844), (122, 11853), (123, 11862), (125, 11874), (127, 11889), (130, 11919), (131, 11925), (135, 11964), (136, 12003), (141, 12081), (144, 12105), (147, 12141), (148, 12150), (149, 12153), (150, 12165), (152, 12183), (153, 12195), (154, 12216), (156, 12243), (158, 12252), (160, 12276), (162, 12291), (165, 12327), (167, 12339), (168, 12351), (172, 12387), (180, 12444), (186, 12582), (192, 12717), (196, 12789), (198, 12861), (199, 12879), (202, 12930), (204, 12969), (205, 12987), (206, 12990), (207, 13056), (208, 13080), (213, 13191), (218, 13281), (220, 13341), (227, 13551), (229, 13572), (234, 13677), (236, 13695), (238, 13704), (245, 13758), (246, 13767), (247, 13776), (248, 13779), (249, 13782),

Gene: MargaretKali_17 Start: 10265, Stop: 13696, Start Num: 1

Candidate Starts for MargaretKali_17:

(Start: 1 @10265 has 1 MA's), (Start: 2 @10268 has 1 MA's), (7, 10304), (8, 10313), (12, 10436), (14, 10457), (17, 10487), (19, 10541), (20, 10574), (22, 10607), (23, 10616), (26, 10646), (30, 10709), (32, 10745), (40, 10850), (44, 10904), (45, 10910), (46, 10913), (48, 10937), (53, 10997), (55, 11036), (56, 11051), (59, 11108), (61, 11126), (63, 11180), (70, 11276), (77, 11336), (81, 11366), (100, 11585), (105, 11639), (110, 11708), (115, 11762), (122, 11837), (124, 11849), (126, 11858), (127, 11867), (129, 11885), (134, 11927), (135, 11939), (138, 11987), (139, 11999), (140, 12038), (141, 12047), (147, 12104), (165, 12257), (170, 12293), (179, 12365), (182, 12389), (185, 12488), (186, 12512), (187, 12572), (189, 12626), (190, 12635), (191, 12638), (194, 12692), (197, 12725), (198, 12791), (199, 12809), (200, 12842), (201, 12851), (202, 12860), (203, 12872), (208, 13010), (210, 13076), (211, 13097), (213, 13112), (214, 13127), (215, 13130), (217, 13199), (218, 13202), (221, 13298), (223, 13346), (228, 13493), (230, 13502), (231, 13505), (237, 13622), (240, 13640), (244, 13673),

Gene: Sarge_16 Start: 9687, Stop: 13076, Start Num: 3

Candidate Starts for Sarge_16:

(Start: 3 @9687 has 4 MA's), (8, 9732), (16, 9894), (23, 10035), (24, 10047), (29, 10107), (35, 10191), (38, 10227), (39, 10233), (42, 10275), (44, 10314), (50, 10359), (51, 10368), (64, 10647), (69, 10686), (71, 10722), (86, 10842), (88, 10860), (90, 10875), (94, 10899), (97, 10917), (99, 10941), (101, 10953), (106, 10989), (111, 11016), (112, 11022), (113, 11034), (116, 11079), (117, 11091), (119, 11103), (120, 11109), (122, 11124), (123, 11133), (125, 11145), (127, 11160), (129, 11178), (135, 11235), (143, 11370), (147, 11412), (148, 11421), (149, 11424), (152, 11454), (153, 11466), (154, 11487), (158, 11523), (163, 11592), (165, 11598), (166, 11601), (168, 11622), (171, 11646), (172, 11658), (177, 11700), (180, 11715), (181, 11727), (186, 11853), (187, 11913), (189, 11967), (191, 11979), (195, 12051), (199, 12150), (200, 12198), (203, 12228), (204, 12255), (206, 12276), (208, 12366), (209, 12402), (213, 12477), (218, 12567), (220, 12627), (222, 12678), (225, 12750), (226, 12810), (227, 12837), (230, 12861), (233, 12927), (234, 12963), (235, 12969), (238, 12990), (243, 13020), (245, 13044), (246, 13053), (247, 13062), (248, 13065),

Gene: Shoya_15 Start: 9323, Stop: 12712, Start Num: 3

Candidate Starts for Shoya_15:

(Start: 3 @9323 has 4 MA's), (8, 9368), (16, 9530), (19, 9596), (23, 9671), (24, 9683), (29, 9743), (34, 9815), (35, 9827), (38, 9863), (39, 9869), (42, 9911), (44, 9950), (50, 9995), (51, 10004), (64, 10283), (71, 10358), (85, 10457), (86, 10478), (88, 10496), (90, 10511), (94, 10535), (97, 10553), (99, 10577), (101, 10589), (106, 10625), (112, 10658), (116, 10715), (119, 10739), (120, 10745), (122, 10760), (123, 10769), (125, 10781), (127, 10796), (129, 10814), (135, 10871), (143, 11006), (147, 11048), (148, 11057), (149, 11060), (152, 11090), (153, 11102), (158, 11159), (163, 11228), (165, 11234), (166, 11237), (168, 11258), (171, 11282), (172, 11294), (178, 11339), (180, 11351), (181, 11363),

(186, 11489), (187, 11549), (189, 11603), (191, 11615), (200, 11834), (203, 11864), (204, 11891),
(206, 11912), (208, 12002), (213, 12113), (218, 12203), (219, 12248), (220, 12263), (222, 12314),
(225, 12386), (227, 12473), (230, 12497), (233, 12563), (234, 12599), (235, 12605), (238, 12626),
(243, 12656), (245, 12680), (246, 12689), (247, 12698), (248, 12701),