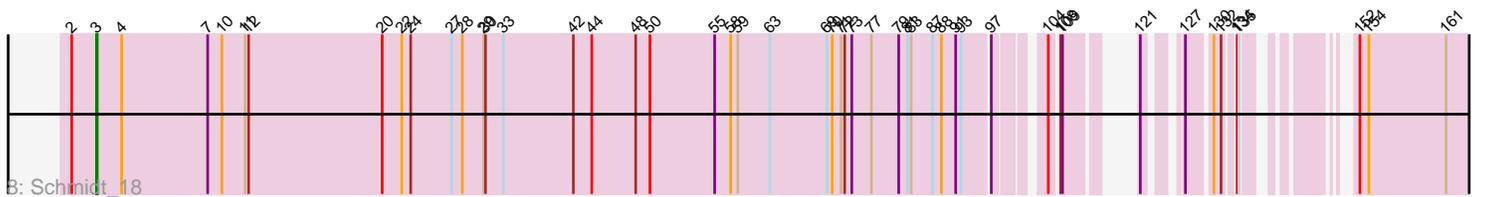
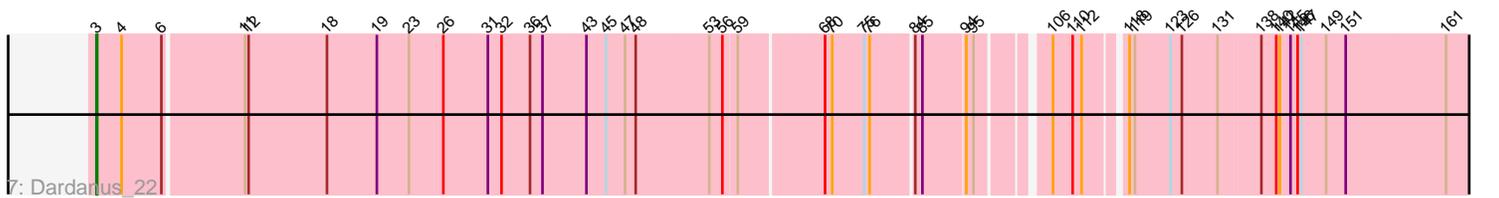
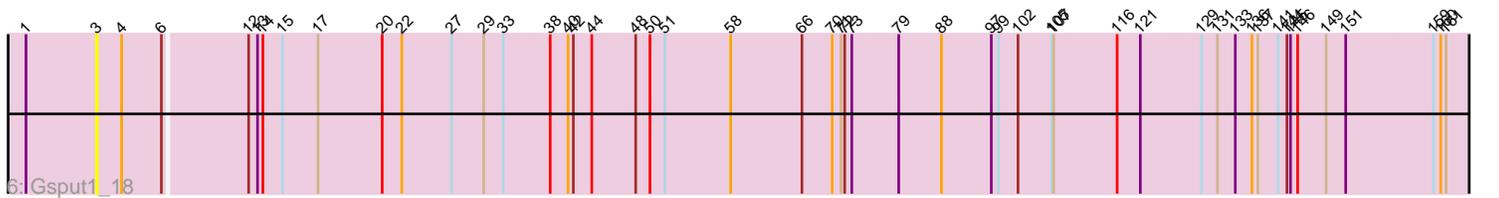
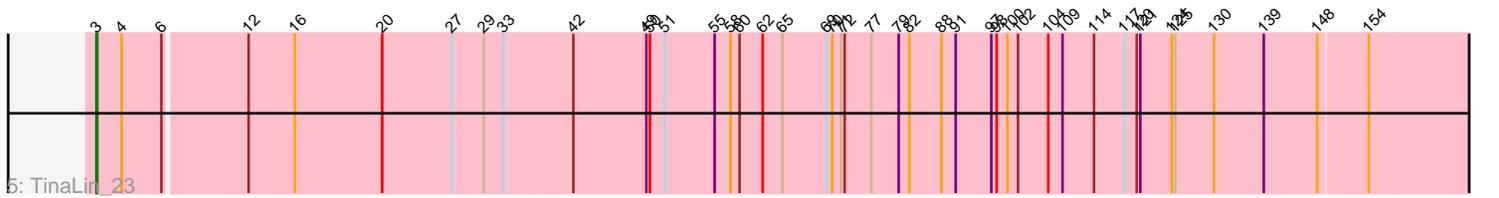
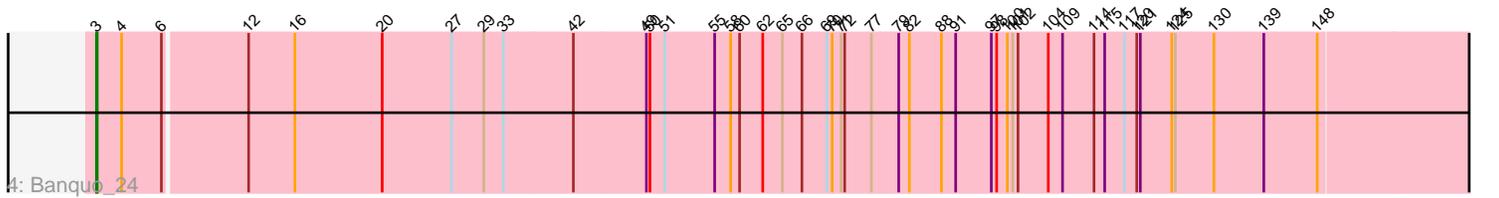
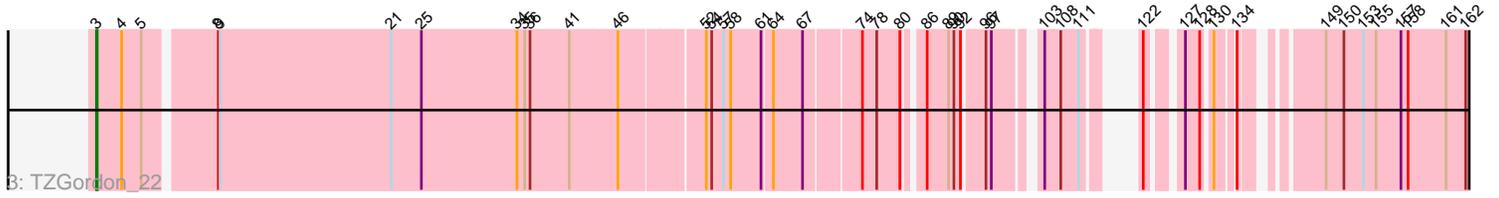
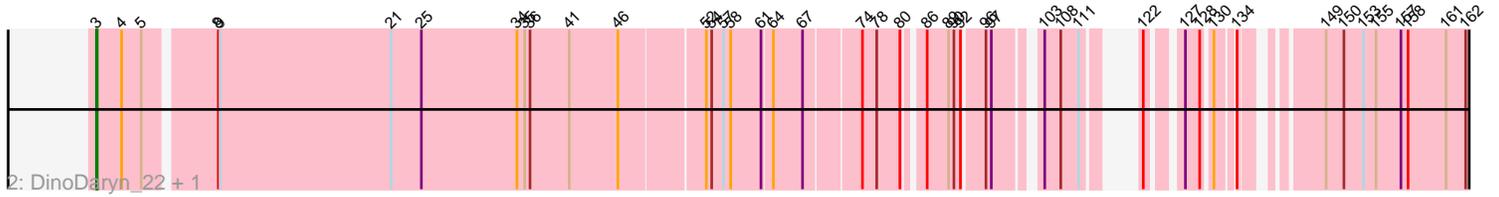
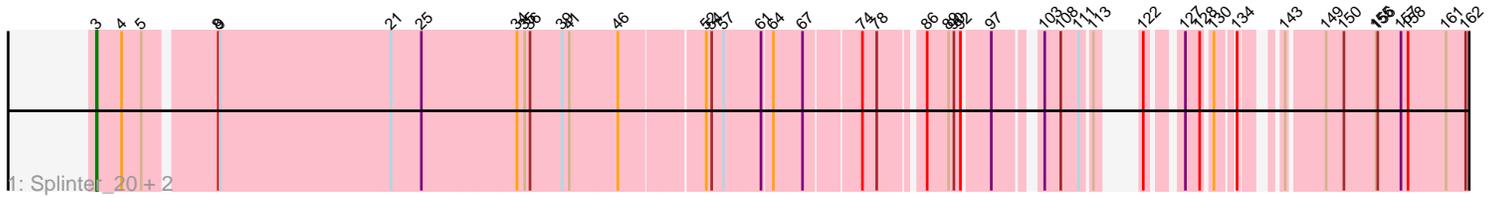


Zoomed Pham 284383



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 284383 Report

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

Pham number 284383 has 11 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Splinter_20, Vendetta_20, Goib_21
- Track 2 : DinoDaryn_22, Huff_22
- Track 3 : TZGordon_22
- Track 4 : Banquo_24
- Track 5 : TinaLin_23
- Track 6 : Gsput1_18
- Track 7 : Dardanus_22
- Track 8 : Schmidt_18

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 10 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Banquo_24, Dardanus_22, DinoDaryn_22, Goib_21, Gsput1_18, Huff_22, Schmidt_18, Splinter_20, TZGordon_22, TinaLin_23, Vendetta_20,

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

-

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

-

Summary by start number:

Start 3:

- Found in 11 of 11 (100.0%) of genes in pham
- Manual Annotations of this start: 10 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Banquo_24 (CU1), Dardanus_22 (CU3), DinoDaryn_22 (CU1), Goib_21 (CU1), Gsput1_18 (CU2), Huff_22 (CU1), Schmidt_18 (CU4), Splinter_20 (CU1), TZGordon_22 (CU1), TinaLin_23 (CU1), Vendetta_20 (CU1),

Summary by clusters:

There are 4 clusters represented in this pham: CU4, CU3, CU2, CU1,

Info for manual annotations of cluster CU1:

- Start number 3 was manually annotated 8 times for cluster CU1.

Info for manual annotations of cluster CU3:

- Start number 3 was manually annotated 1 time for cluster CU3.

Info for manual annotations of cluster CU4:

- Start number 3 was manually annotated 1 time for cluster CU4.

Gene Information:

Gene: Banquo_24 Start: 13267, Stop: 16992, Start Num: 3

Candidate Starts for Banquo_24:

(Start: 3 @13267 has 10 MA's), (4, 13309), (6, 13375), (12, 13510), (16, 13588), (20, 13735), (27, 13852), (29, 13906), (33, 13939), (42, 14053), (49, 14170), (50, 14176), (51, 14200), (55, 14284), (58, 14311), (60, 14326), (62, 14365), (65, 14398), (66, 14431), (69, 14473), (70, 14482), (71, 14497), (72, 14503), (77, 14548), (79, 14593), (82, 14611), (88, 14665), (91, 14689), (97, 14749), (98, 14758), (100, 14776), (101, 14785), (102, 14794), (104, 14845), (109, 14869), (114, 14920), (115, 14938), (117, 14971), (120, 14992), (121, 14998), (124, 15049), (125, 15055), (130, 15118), (139, 15202), (148, 15292), (168, 15610), (173, 15685), (174, 15730), (177, 15757), (178, 15760), (182, 15814), (189, 15868), (190, 15886), (199, 16162), (203, 16237), (204, 16267), (208, 16438), (210, 16447), (217, 16591), (220, 16612), (222, 16636), (232, 16753), (234, 16765), (237, 16792), (238, 16810), (241, 16885), (242, 16912), (244, 16918), (245, 16972), (247, 16987),

Gene: Dardanus_22 Start: 12248, Stop: 15838, Start Num: 3

Candidate Starts for Dardanus_22:

(Start: 3 @12248 has 10 MA's), (4, 12290), (6, 12356), (11, 12485), (12, 12491), (18, 12623), (19, 12707), (23, 12758), (26, 12812), (31, 12881), (32, 12902), (36, 12950), (37, 12971), (43, 13037), (45, 13070), (47, 13100), (48, 13115), (53, 13238), (56, 13256), (59, 13277), (68, 13403), (70, 13415), (75, 13469), (76, 13478), (84, 13541), (85, 13553), (94, 13619), (95, 13631), (106, 13727), (110, 13760), (112, 13775), (118, 13832), (119, 13841), (123, 13901), (126, 13919), (131, 13979), (138, 14042), (140, 14066), (142, 14072), (145, 14090), (146, 14102), (147, 14108), (149, 14150), (151, 14183), (161, 14348), (166, 14426), (170, 14495), (171, 14513), (174, 14579), (176, 14594), (178, 14609), (180, 14630), (183, 14666), (185, 14675), (190, 14735), (198, 14999), (199, 15011), (205, 15158), (208, 15290), (210, 15299), (220, 15464), (222, 15488), (233, 15614), (235, 15632), (236, 15635), (238, 15662), (241, 15731), (244, 15764), (247, 15833),

Gene: DinoDaryn_22 Start: 12409, Stop: 15867, Start Num: 3

Candidate Starts for DinoDaryn_22:

(Start: 3 @12409 has 10 MA's), (4, 12451), (5, 12484), (8, 12589), (9, 12592), (21, 12877), (25, 12928), (34, 13084), (35, 13096), (36, 13105), (41, 13171), (46, 13252), (52, 13381), (54, 13390), (57, 13408), (58, 13420), (61, 13468), (64, 13483), (67, 13531), (74, 13618), (78, 13642), (80, 13681), (86, 13705), (89, 13741), (90, 13750), (92, 13759), (96, 13792), (97, 13801), (103, 13858), (108, 13885), (111, 13915), (122, 13948), (127, 13984), (128, 14008), (130, 14020), (134, 14044), (149, 14137), (150, 14164), (153, 14197), (155, 14218), (157, 14260), (158, 14272), (161, 14335), (162, 14368), (163,

14377), (164, 14392), (165, 14410), (169, 14488), (172, 14515), (178, 14614), (179, 14632), (180, 14635), (182, 14668), (184, 14677), (188, 14713), (189, 14761), (194, 14920), (199, 15055), (203, 15130), (206, 15229), (208, 15325), (210, 15334), (211, 15361), (217, 15466), (218, 15472), (220, 15487), (222, 15511), (232, 15628), (234, 15640), (237, 15667), (240, 15712), (241, 15760), (242, 15787), (244, 15793), (245, 15847), (247, 15862),

Gene: Goib_21 Start: 12184, Stop: 15645, Start Num: 3

Candidate Starts for Goib_21:

(Start: 3 @12184 has 10 MA's), (4, 12226), (5, 12259), (8, 12364), (9, 12367), (21, 12652), (25, 12703), (34, 12859), (35, 12871), (36, 12880), (39, 12934), (41, 12946), (46, 13027), (52, 13156), (54, 13165), (57, 13183), (61, 13243), (64, 13258), (67, 13306), (74, 13393), (78, 13417), (86, 13480), (89, 13516), (90, 13525), (92, 13534), (97, 13576), (103, 13633), (108, 13660), (111, 13690), (113, 13705), (122, 13723), (127, 13759), (128, 13783), (130, 13795), (134, 13819), (143, 13858), (149, 13912), (150, 13939), (155, 13993), (156, 13996), (157, 14035), (158, 14047), (161, 14110), (162, 14143), (163, 14152), (164, 14167), (165, 14185), (169, 14263), (172, 14290), (179, 14407), (180, 14410), (182, 14443), (184, 14452), (188, 14488), (189, 14536), (194, 14695), (199, 14830), (203, 14905), (206, 15007), (208, 15103), (210, 15112), (213, 15169), (217, 15244), (218, 15250), (220, 15265), (222, 15289), (232, 15406), (234, 15418), (237, 15445), (238, 15463), (242, 15565), (244, 15571), (245, 15625), (247, 15640),

Gene: Gspu1_18 Start: 10609, Stop: 14904, Start Num: 3

Candidate Starts for Gspu1_18:

(1, 10492), (Start: 3 @10609 has 10 MA's), (4, 10651), (6, 10717), (12, 10852), (13, 10867), (14, 10876), (15, 10909), (17, 10969), (20, 11077), (22, 11110), (27, 11194), (29, 11248), (33, 11281), (38, 11356), (40, 11386), (42, 11395), (44, 11422), (48, 11494), (50, 11518), (51, 11542), (58, 11653), (66, 11773), (70, 11824), (71, 11839), (72, 11845), (73, 11857), (79, 11935), (88, 12007), (97, 12091), (99, 12103), (102, 12136), (105, 12193), (107, 12196), (116, 12301), (121, 12340), (129, 12442), (131, 12469), (133, 12493), (136, 12520), (137, 12526), (141, 12559), (144, 12574), (145, 12580), (146, 12592), (149, 12640), (151, 12673), (159, 12817), (160, 12829), (161, 12838), (167, 12922), (175, 13069), (176, 13078), (179, 13111), (180, 13114), (182, 13147), (184, 13156), (187, 13189), (191, 13270), (192, 13285), (193, 13300), (195, 13438), (196, 13540), (197, 13543), (200, 13639), (201, 13669), (202, 13702), (208, 13951), (209, 13954), (210, 13960), (214, 14080), (215, 14092), (221, 14143), (225, 14191), (226, 14215), (229, 14275), (243, 14461), (246, 14530), (248, 14575), (249, 14659), (250, 14668), (251, 14680), (252, 14752), (253, 14899),

Gene: Huff_22 Start: 12409, Stop: 15867, Start Num: 3

Candidate Starts for Huff_22:

(Start: 3 @12409 has 10 MA's), (4, 12451), (5, 12484), (8, 12589), (9, 12592), (21, 12877), (25, 12928), (34, 13084), (35, 13096), (36, 13105), (41, 13171), (46, 13252), (52, 13381), (54, 13390), (57, 13408), (58, 13420), (61, 13468), (64, 13483), (67, 13531), (74, 13618), (78, 13642), (80, 13681), (86, 13705), (89, 13741), (90, 13750), (92, 13759), (96, 13792), (97, 13801), (103, 13858), (108, 13885), (111, 13915), (122, 13948), (127, 13984), (128, 14008), (130, 14020), (134, 14044), (149, 14137), (150, 14164), (153, 14197), (155, 14218), (157, 14260), (158, 14272), (161, 14335), (162, 14368), (163, 14377), (164, 14392), (165, 14410), (169, 14488), (172, 14515), (178, 14614), (179, 14632), (180, 14635), (182, 14668), (184, 14677), (188, 14713), (189, 14761), (194, 14920), (199, 15055), (203, 15130), (206, 15229), (208, 15325), (210, 15334), (211, 15361), (217, 15466), (218, 15472), (220, 15487), (222, 15511), (232, 15628), (234, 15640), (237, 15667), (240, 15712), (241, 15760), (242, 15787), (244, 15793), (245, 15847), (247, 15862),

Gene: Schmidt_18 Start: 10553, Stop: 13858, Start Num: 3

Candidate Starts for Schmidt_18:

(2, 10511), (Start: 3 @10553 has 10 MA's), (4, 10595), (7, 10739), (10, 10763), (11, 10802), (12, 10808), (20, 11033), (22, 11066), (24, 11081), (27, 11150), (28, 11168), (29, 11204), (30, 11207), (33,

11237), (42, 11351), (44, 11378), (48, 11450), (50, 11474), (55, 11582), (58, 11609), (59, 11621), (63, 11675), (69, 11771), (70, 11780), (71, 11795), (72, 11801), (73, 11813), (77, 11846), (79, 11891), (81, 11906), (83, 11912), (87, 11948), (88, 11963), (91, 11987), (93, 11996), (97, 12038), (104, 12095), (108, 12107), (109, 12110), (121, 12164), (127, 12200), (130, 12236), (132, 12248), (134, 12260), (135, 12263), (152, 12362), (154, 12377), (161, 12506), (166, 12584), (171, 12671), (177, 12773), (179, 12794), (180, 12797), (181, 12824), (186, 12854), (189, 12893), (190, 12911), (198, 13175), (199, 13187), (205, 13331), (207, 13424), (212, 13520), (216, 13613), (219, 13631), (223, 13667), (224, 13682), (227, 13763), (228, 13766), (230, 13778), (231, 13784), (239, 13853),

Gene: Splinter_20 Start: 12184, Stop: 15645, Start Num: 3

Candidate Starts for Splinter_20:

(Start: 3 @12184 has 10 MA's), (4, 12226), (5, 12259), (8, 12364), (9, 12367), (21, 12652), (25, 12703), (34, 12859), (35, 12871), (36, 12880), (39, 12934), (41, 12946), (46, 13027), (52, 13156), (54, 13165), (57, 13183), (61, 13243), (64, 13258), (67, 13306), (74, 13393), (78, 13417), (86, 13480), (89, 13516), (90, 13525), (92, 13534), (97, 13576), (103, 13633), (108, 13660), (111, 13690), (113, 13705), (122, 13723), (127, 13759), (128, 13783), (130, 13795), (134, 13819), (143, 13858), (149, 13912), (150, 13939), (155, 13993), (156, 13996), (157, 14035), (158, 14047), (161, 14110), (162, 14143), (163, 14152), (164, 14167), (165, 14185), (169, 14263), (172, 14290), (179, 14407), (180, 14410), (182, 14443), (184, 14452), (188, 14488), (189, 14536), (194, 14695), (199, 14830), (203, 14905), (206, 15007), (208, 15103), (210, 15112), (213, 15169), (217, 15244), (218, 15250), (220, 15265), (222, 15289), (232, 15406), (234, 15418), (237, 15445), (238, 15463), (242, 15565), (244, 15571), (245, 15625), (247, 15640),

Gene: TZGordon_22 Start: 12326, Stop: 15784, Start Num: 3

Candidate Starts for TZGordon_22:

(Start: 3 @12326 has 10 MA's), (4, 12368), (5, 12401), (8, 12506), (9, 12509), (21, 12794), (25, 12845), (34, 13001), (35, 13013), (36, 13022), (41, 13088), (46, 13169), (52, 13298), (54, 13307), (57, 13325), (58, 13337), (61, 13385), (64, 13400), (67, 13448), (74, 13535), (78, 13559), (80, 13598), (86, 13622), (89, 13658), (90, 13667), (92, 13676), (96, 13709), (97, 13718), (103, 13775), (108, 13802), (111, 13832), (122, 13865), (127, 13901), (128, 13925), (130, 13937), (134, 13961), (149, 14054), (150, 14081), (153, 14114), (155, 14135), (157, 14177), (158, 14189), (161, 14252), (162, 14285), (163, 14294), (164, 14309), (165, 14327), (169, 14405), (172, 14432), (178, 14531), (179, 14549), (180, 14552), (182, 14585), (184, 14594), (188, 14630), (189, 14678), (194, 14837), (199, 14972), (203, 15047), (206, 15146), (208, 15242), (210, 15251), (217, 15383), (218, 15389), (220, 15404), (222, 15428), (232, 15545), (234, 15557), (237, 15584), (240, 15629), (241, 15677), (242, 15704), (244, 15710), (245, 15764), (247, 15779),

Gene: TinaLin_23 Start: 12891, Stop: 16616, Start Num: 3

Candidate Starts for TinaLin_23:

(Start: 3 @12891 has 10 MA's), (4, 12933), (6, 12999), (12, 13134), (16, 13212), (20, 13359), (27, 13476), (29, 13530), (33, 13563), (42, 13677), (49, 13794), (50, 13800), (51, 13824), (55, 13908), (58, 13935), (60, 13950), (62, 13989), (65, 14022), (69, 14097), (70, 14106), (71, 14121), (72, 14127), (77, 14172), (79, 14217), (82, 14235), (88, 14289), (91, 14313), (97, 14373), (98, 14382), (100, 14400), (102, 14418), (104, 14469), (109, 14493), (114, 14544), (117, 14595), (120, 14616), (121, 14622), (124, 14673), (125, 14679), (130, 14742), (139, 14826), (148, 14916), (154, 14994), (168, 15234), (173, 15309), (174, 15354), (177, 15381), (178, 15384), (182, 15438), (189, 15492), (190, 15510), (199, 15786), (203, 15861), (204, 15891), (208, 16062), (210, 16071), (217, 16215), (220, 16236), (222, 16260), (232, 16377), (234, 16389), (237, 16416), (238, 16434), (241, 16509), (242, 16536), (244, 16542), (245, 16596), (247, 16611),

Gene: Vendetta_20 Start: 12184, Stop: 15645, Start Num: 3

Candidate Starts for Vendetta_20:

(Start: 3 @12184 has 10 MA's), (4, 12226), (5, 12259), (8, 12364), (9, 12367), (21, 12652), (25, 12703), (34, 12859), (35, 12871), (36, 12880), (39, 12934), (41, 12946), (46, 13027), (52, 13156), (54, 13165), (57, 13183), (61, 13243), (64, 13258), (67, 13306), (74, 13393), (78, 13417), (86, 13480), (89, 13516), (90, 13525), (92, 13534), (97, 13576), (103, 13633), (108, 13660), (111, 13690), (113, 13705), (122, 13723), (127, 13759), (128, 13783), (130, 13795), (134, 13819), (143, 13858), (149, 13912), (150, 13939), (155, 13993), (156, 13996), (157, 14035), (158, 14047), (161, 14110), (162, 14143), (163, 14152), (164, 14167), (165, 14185), (169, 14263), (172, 14290), (179, 14407), (180, 14410), (182, 14443), (184, 14452), (188, 14488), (189, 14536), (194, 14695), (199, 14830), (203, 14905), (206, 15007), (208, 15103), (210, 15112), (213, 15169), (217, 15244), (218, 15250), (220, 15265), (222, 15289), (232, 15406), (234, 15418), (237, 15445), (238, 15463), (242, 15565), (244, 15571), (245, 15625), (247, 15640),