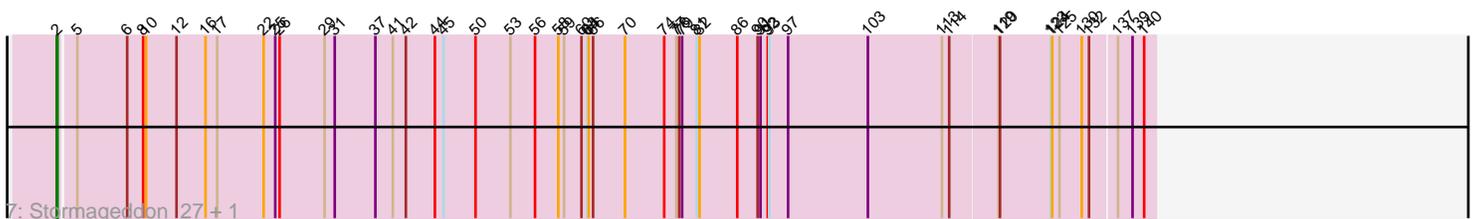
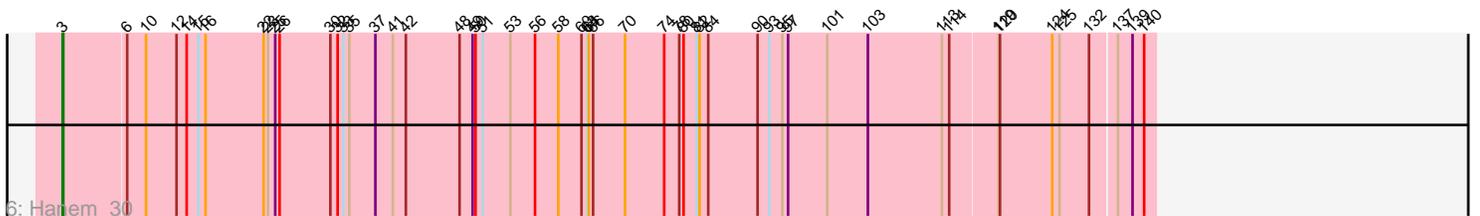
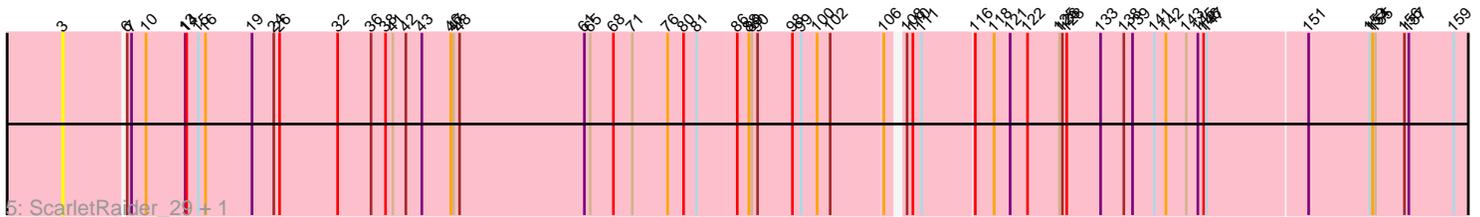
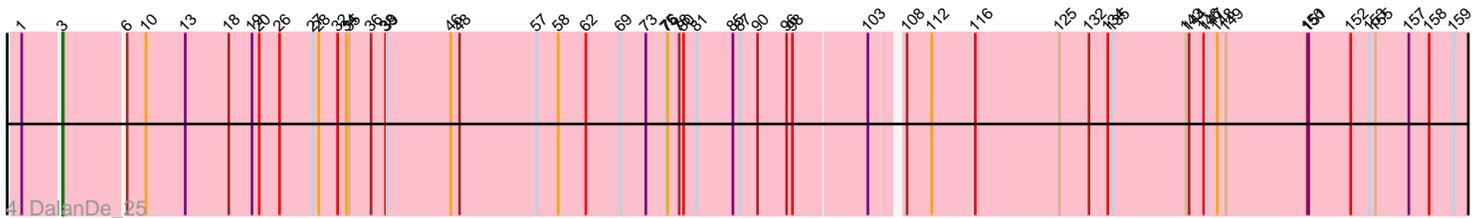
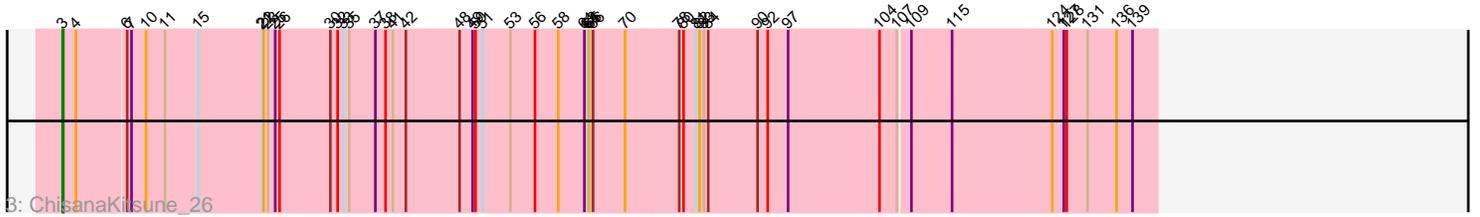
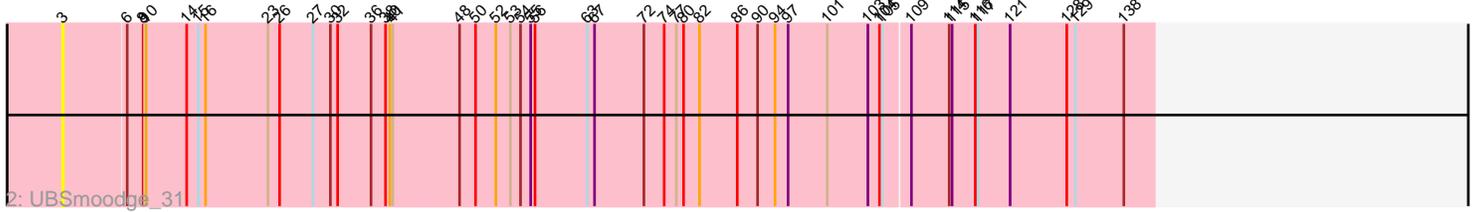
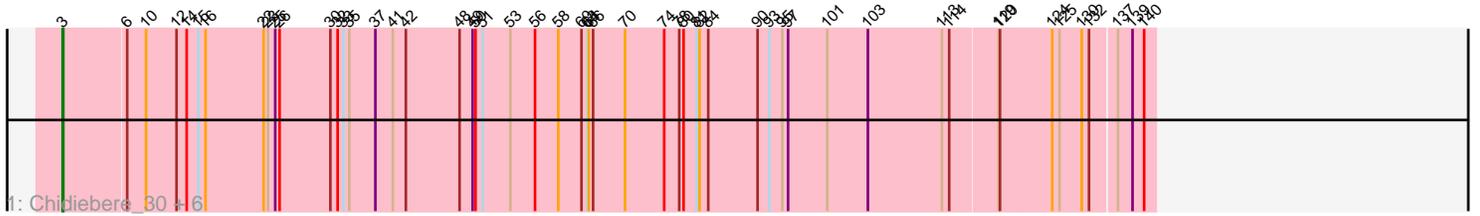


Pham 7295



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 7295 Report

This analysis was run 03/30/24 on database version 556.

Pham number 7295 has 15 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Chidiebere_30, Gray_30, Kabocha_31, Pakusa_29, Oogie_30, Schomber_29, Alok_i_29
- Track 2 : UBSmoodge_31
- Track 3 : ChisanaKitsune_26
- Track 4 : DalanDe_25
- Track 5 : ScarletRaider_29, FlyingTortilla_29
- Track 6 : Hanem_30
- Track 7 : Stormageddon_27, RedWattleHog_30

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 7 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alok_i_29, Chidiebere_30, ChisanaKitsune_26, DalanDe_25, FlyingTortilla_29, Gray_30, Hanem_30, Kabocha_31, Oogie_30, Pakusa_29, ScarletRaider_29, Schomber_29, UBSmoodge_31,

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

-

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

- RedWattleHog_30, Stormageddon_27,

Summary by start number:

Start 2:

- Found in 2 of 15 (13.3%) of genes in pham
- Manual Annotations of this start: 2 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: RedWattleHog_30 (DX), Stormageddon_27 (DX),

Start 3:

- Found in 13 of 15 (86.7%) of genes in pham
- Manual Annotations of this start: 7 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aloki_29 (DQ), Chidiebere_30 (DQ), ChisanaKitsune_26 (DQ), DalanDe_25 (DQ), FlyingTortilla_29 (DQ), Gray_30 (DQ), Hanem_30 (DQ), Kabocha_31 (DQ), Oogie_30 (DQ), Pakusa_29 (DQ), ScarletRaider_29 (DQ), Schomber_29 (DQ), UBSmoodge_31 (DQ),

Summary by clusters:

There are 2 clusters represented in this pham: DX, DQ,

Info for manual annotations of cluster DQ:

- Start number 3 was manually annotated 7 times for cluster DQ.

Info for manual annotations of cluster DX:

- Start number 2 was manually annotated 2 times for cluster DX.

Gene Information:

Gene: Aloki_29 Start: 19361, Stop: 21553, Start Num: 3

Candidate Starts for Aloki_29:

(Start: 3 @19361 has 7 MA's), (6, 19484), (10, 19523), (12, 19586), (14, 19607), (15, 19631), (16, 19646), (22, 19766), (23, 19775), (25, 19790), (26, 19799), (30, 19901), (32, 19916), (33, 19928), (35, 19940), (37, 19994), (41, 20030), (42, 20057), (48, 20165), (49, 20192), (50, 20198), (51, 20213), (53, 20270), (56, 20321), (58, 20369), (60, 20417), (63, 20429), (64, 20432), (66, 20441), (70, 20504), (74, 20582), (78, 20612), (80, 20621), (81, 20648), (82, 20654), (84, 20672), (90, 20774), (93, 20798), (95, 20825), (97, 20837), (101, 20918), (103, 20996), (113, 21149), (114, 21161), (119, 21254), (120, 21257), (124, 21356), (125, 21371), (130, 21413), (132, 21428), (137, 21479), (139, 21506), (140, 21530),

Gene: Chidiebere_30 Start: 19361, Stop: 21553, Start Num: 3

Candidate Starts for Chidiebere_30:

(Start: 3 @19361 has 7 MA's), (6, 19484), (10, 19523), (12, 19586), (14, 19607), (15, 19631), (16, 19646), (22, 19766), (23, 19775), (25, 19790), (26, 19799), (30, 19901), (32, 19916), (33, 19928), (35, 19940), (37, 19994), (41, 20030), (42, 20057), (48, 20165), (49, 20192), (50, 20198), (51, 20213), (53, 20270), (56, 20321), (58, 20369), (60, 20417), (63, 20429), (64, 20432), (66, 20441), (70, 20504), (74, 20582), (78, 20612), (80, 20621), (81, 20648), (82, 20654), (84, 20672), (90, 20774), (93, 20798), (95, 20825), (97, 20837), (101, 20918), (103, 20996), (113, 21149), (114, 21161), (119, 21254), (120, 21257), (124, 21356), (125, 21371), (130, 21413), (132, 21428), (137, 21479), (139, 21506), (140, 21530),

Gene: ChisanaKitsune_26 Start: 17924, Stop: 20143, Start Num: 3

Candidate Starts for ChisanaKitsune_26:

(Start: 3 @17924 has 7 MA's), (4, 17951), (6, 18047), (7, 18056), (10, 18086), (11, 18125), (15, 18194), (21, 18326), (22, 18329), (23, 18338), (25, 18353), (26, 18362), (30, 18464), (32, 18479), (33, 18491), (35, 18503), (37, 18557), (38, 18578), (41, 18593), (42, 18620), (48, 18728), (49, 18755), (50, 18761), (51, 18776), (53, 18833), (56, 18884), (58, 18932), (61, 18986), (63, 18992), (64, 18995), (65, 18998), (66, 19004), (70, 19067), (78, 19175), (80, 19184), (81, 19211), (82, 19217), (83, 19226), (84, 19235), (90, 19337), (92, 19358), (97, 19400), (104, 19583), (107, 19619), (109, 19640), (115, 19724),

(124, 19928), (127, 19952), (128, 19958), (131, 20000), (136, 20060), (139, 20093),

Gene: DalanDe_25 Start: 18851, Stop: 21670, Start Num: 3

Candidate Starts for DalanDe_25:

(1, 18779), (Start: 3 @18851 has 7 MA's), (6, 18965), (10, 19001), (13, 19082), (18, 19172), (19, 19220), (20, 19235), (26, 19277), (27, 19343), (28, 19355), (32, 19394), (34, 19412), (35, 19418), (36, 19463), (38, 19493), (39, 19496), (46, 19628), (48, 19646), (57, 19796), (58, 19841), (62, 19898), (69, 19970), (73, 20021), (75, 20063), (76, 20066), (78, 20090), (80, 20099), (81, 20126), (85, 20195), (87, 20210), (90, 20246), (96, 20306), (98, 20318), (103, 20453), (108, 20504), (112, 20555), (116, 20633), (125, 20804), (132, 20861), (134, 20900), (135, 20909), (143, 21056), (144, 21062), (146, 21092), (147, 21098), (148, 21119), (149, 21134), (150, 21299), (151, 21302), (152, 21389), (153, 21428), (155, 21440), (157, 21509), (158, 21545), (159, 21596),

Gene: FlyingTortilla_29 Start: 21608, Stop: 24448, Start Num: 3

Candidate Starts for FlyingTortilla_29:

(Start: 3 @21608 has 7 MA's), (6, 21725), (7, 21734), (10, 21764), (13, 21845), (14, 21848), (15, 21872), (16, 21887), (19, 21983), (24, 22028), (26, 22040), (32, 22157), (36, 22226), (38, 22256), (41, 22271), (42, 22298), (43, 22331), (46, 22391), (47, 22397), (48, 22409), (61, 22658), (65, 22670), (68, 22718), (71, 22757), (76, 22829), (80, 22862), (81, 22889), (86, 22967), (88, 22991), (89, 22997), (90, 23009), (98, 23081), (99, 23099), (100, 23126), (102, 23153), (106, 23255), (108, 23279), (110, 23291), (111, 23309), (116, 23408), (118, 23447), (121, 23480), (122, 23516), (125, 23582), (126, 23588), (128, 23594), (133, 23660), (138, 23705), (139, 23723), (141, 23768), (142, 23792), (143, 23831), (145, 23855), (146, 23867), (147, 23873), (151, 24074), (153, 24200), (154, 24206), (155, 24212), (156, 24272), (157, 24281), (159, 24374),

Gene: Gray_30 Start: 19361, Stop: 21553, Start Num: 3

Candidate Starts for Gray_30:

(Start: 3 @19361 has 7 MA's), (6, 19484), (10, 19523), (12, 19586), (14, 19607), (15, 19631), (16, 19646), (22, 19766), (23, 19775), (25, 19790), (26, 19799), (30, 19901), (32, 19916), (33, 19928), (35, 19940), (37, 19994), (41, 20030), (42, 20057), (48, 20165), (49, 20192), (50, 20198), (51, 20213), (53, 20270), (56, 20321), (58, 20369), (60, 20417), (63, 20429), (64, 20432), (66, 20441), (70, 20504), (74, 20582), (78, 20612), (80, 20621), (81, 20648), (82, 20654), (84, 20672), (90, 20774), (93, 20798), (95, 20825), (97, 20837), (101, 20918), (103, 20996), (113, 21149), (114, 21161), (119, 21254), (120, 21257), (124, 21356), (125, 21371), (130, 21413), (132, 21428), (137, 21479), (139, 21506), (140, 21530),

Gene: Hanem_30 Start: 19361, Stop: 21553, Start Num: 3

Candidate Starts for Hanem_30:

(Start: 3 @19361 has 7 MA's), (6, 19484), (10, 19523), (12, 19586), (14, 19607), (15, 19631), (16, 19646), (22, 19766), (23, 19775), (25, 19790), (26, 19799), (30, 19901), (32, 19916), (33, 19928), (35, 19940), (37, 19994), (41, 20030), (42, 20057), (48, 20165), (49, 20192), (50, 20198), (51, 20213), (53, 20270), (56, 20321), (58, 20369), (60, 20417), (63, 20429), (64, 20432), (66, 20441), (70, 20504), (74, 20582), (78, 20612), (80, 20621), (81, 20648), (82, 20654), (84, 20672), (90, 20774), (93, 20798), (95, 20825), (97, 20837), (101, 20918), (103, 20996), (113, 21149), (114, 21161), (119, 21254), (120, 21257), (124, 21356), (125, 21371), (132, 21428), (137, 21479), (139, 21506), (140, 21530),

Gene: Kabocha_31 Start: 20174, Stop: 22366, Start Num: 3

Candidate Starts for Kabocha_31:

(Start: 3 @20174 has 7 MA's), (6, 20297), (10, 20336), (12, 20399), (14, 20420), (15, 20444), (16, 20459), (22, 20579), (23, 20588), (25, 20603), (26, 20612), (30, 20714), (32, 20729), (33, 20741), (35, 20753), (37, 20807), (41, 20843), (42, 20870), (48, 20978), (49, 21005), (50, 21011), (51, 21026), (53, 21083), (56, 21134), (58, 21182), (60, 21230), (63, 21242), (64, 21245), (66, 21254), (70, 21317), (74, 21395), (78, 21425), (80, 21434), (81, 21461), (82, 21467), (84, 21485), (90, 21587), (93, 21611), (95,

21638), (97, 21650), (101, 21731), (103, 21809), (113, 21962), (114, 21974), (119, 22067), (120, 22070), (124, 22169), (125, 22184), (130, 22226), (132, 22241), (137, 22292), (139, 22319), (140, 22343),

Gene: Oogie_30 Start: 21064, Stop: 23256, Start Num: 3

Candidate Starts for Oogie_30:

(Start: 3 @21064 has 7 MA's), (6, 21187), (10, 21226), (12, 21289), (14, 21310), (15, 21334), (16, 21349), (22, 21469), (23, 21478), (25, 21493), (26, 21502), (30, 21604), (32, 21619), (33, 21631), (35, 21643), (37, 21697), (41, 21733), (42, 21760), (48, 21868), (49, 21895), (50, 21901), (51, 21916), (53, 21973), (56, 22024), (58, 22072), (60, 22120), (63, 22132), (64, 22135), (66, 22144), (70, 22207), (74, 22285), (78, 22315), (80, 22324), (81, 22351), (82, 22357), (84, 22375), (90, 22477), (93, 22501), (95, 22528), (97, 22540), (101, 22621), (103, 22699), (113, 22852), (114, 22864), (119, 22957), (120, 22960), (124, 23059), (125, 23074), (130, 23116), (132, 23131), (137, 23182), (139, 23209), (140, 23233),

Gene: Pakusa_29 Start: 19103, Stop: 21295, Start Num: 3

Candidate Starts for Pakusa_29:

(Start: 3 @19103 has 7 MA's), (6, 19226), (10, 19265), (12, 19328), (14, 19349), (15, 19373), (16, 19388), (22, 19508), (23, 19517), (25, 19532), (26, 19541), (30, 19643), (32, 19658), (33, 19670), (35, 19682), (37, 19736), (41, 19772), (42, 19799), (48, 19907), (49, 19934), (50, 19940), (51, 19955), (53, 20012), (56, 20063), (58, 20111), (60, 20159), (63, 20171), (64, 20174), (66, 20183), (70, 20246), (74, 20324), (78, 20354), (80, 20363), (81, 20390), (82, 20396), (84, 20414), (90, 20516), (93, 20540), (95, 20567), (97, 20579), (101, 20660), (103, 20738), (113, 20891), (114, 20903), (119, 20996), (120, 20999), (124, 21098), (125, 21113), (130, 21155), (132, 21170), (137, 21221), (139, 21248), (140, 21272),

Gene: RedWattleHog_30 Start: 31799, Stop: 33997, Start Num: 2

Candidate Starts for RedWattleHog_30:

(Start: 2 @31799 has 2 MA's), (5, 31829), (6, 31931), (8, 31964), (10, 31970), (12, 32033), (16, 32093), (17, 32117), (22, 32213), (25, 32237), (26, 32246), (29, 32339), (31, 32357), (37, 32441), (41, 32477), (42, 32504), (44, 32561), (45, 32579), (50, 32645), (53, 32717), (56, 32768), (58, 32816), (59, 32828), (60, 32864), (63, 32876), (64, 32879), (66, 32888), (70, 32951), (74, 33026), (77, 33050), (78, 33056), (79, 33062), (81, 33092), (82, 33098), (86, 33176), (90, 33218), (91, 33224), (92, 33239), (93, 33242), (97, 33281), (103, 33440), (113, 33593), (114, 33605), (119, 33698), (120, 33701), (123, 33797), (124, 33800), (125, 33815), (130, 33857), (132, 33872), (137, 33923), (139, 33950), (140, 33974),

Gene: ScarletRaider_29 Start: 21635, Stop: 24475, Start Num: 3

Candidate Starts for ScarletRaider_29:

(Start: 3 @21635 has 7 MA's), (6, 21752), (7, 21761), (10, 21791), (13, 21872), (14, 21875), (15, 21899), (16, 21914), (19, 22010), (24, 22055), (26, 22067), (32, 22184), (36, 22253), (38, 22283), (41, 22298), (42, 22325), (43, 22358), (46, 22418), (47, 22424), (48, 22436), (61, 22685), (65, 22697), (68, 22745), (71, 22784), (76, 22856), (80, 22889), (81, 22916), (86, 22994), (88, 23018), (89, 23024), (90, 23036), (98, 23108), (99, 23126), (100, 23153), (102, 23180), (106, 23282), (108, 23306), (110, 23318), (111, 23336), (116, 23435), (118, 23474), (121, 23507), (122, 23543), (125, 23609), (126, 23615), (128, 23621), (133, 23687), (138, 23732), (139, 23750), (141, 23795), (142, 23819), (143, 23858), (145, 23882), (146, 23894), (147, 23900), (151, 24101), (153, 24227), (154, 24233), (155, 24239), (156, 24299), (157, 24308), (159, 24401),

Gene: Schomber_29 Start: 19111, Stop: 21303, Start Num: 3

Candidate Starts for Schomber_29:

(Start: 3 @19111 has 7 MA's), (6, 19234), (10, 19273), (12, 19336), (14, 19357), (15, 19381), (16, 19396), (22, 19516), (23, 19525), (25, 19540), (26, 19549), (30, 19651), (32, 19666), (33, 19678), (35,

19690), (37, 19744), (41, 19780), (42, 19807), (48, 19915), (49, 19942), (50, 19948), (51, 19963), (53, 20020), (56, 20071), (58, 20119), (60, 20167), (63, 20179), (64, 20182), (66, 20191), (70, 20254), (74, 20332), (78, 20362), (80, 20371), (81, 20398), (82, 20404), (84, 20422), (90, 20524), (93, 20548), (95, 20575), (97, 20587), (101, 20668), (103, 20746), (113, 20899), (114, 20911), (119, 21004), (120, 21007), (124, 21106), (125, 21121), (130, 21163), (132, 21178), (137, 21229), (139, 21256), (140, 21280),

Gene: Stormageddon_27 Start: 31782, Stop: 33980, Start Num: 2

Candidate Starts for Stormageddon_27:

(Start: 2 @31782 has 2 MA's), (5, 31812), (6, 31914), (8, 31947), (10, 31953), (12, 32016), (16, 32076), (17, 32100), (22, 32196), (25, 32220), (26, 32229), (29, 32322), (31, 32340), (37, 32424), (41, 32460), (42, 32487), (44, 32544), (45, 32562), (50, 32628), (53, 32700), (56, 32751), (58, 32799), (59, 32811), (60, 32847), (63, 32859), (64, 32862), (66, 32871), (70, 32934), (74, 33009), (77, 33033), (78, 33039), (79, 33045), (81, 33075), (82, 33081), (86, 33159), (90, 33201), (91, 33207), (92, 33222), (93, 33225), (97, 33264), (103, 33423), (113, 33576), (114, 33588), (119, 33681), (120, 33684), (123, 33780), (124, 33783), (125, 33798), (130, 33840), (132, 33855), (137, 33906), (139, 33933), (140, 33957),

Gene: UBSmoodge_31 Start: 21180, Stop: 23384, Start Num: 3

Candidate Starts for UBSmoodge_31:

(Start: 3 @21180 has 7 MA's), (6, 21303), (8, 21336), (9, 21339), (10, 21342), (14, 21426), (15, 21450), (16, 21465), (23, 21594), (26, 21618), (27, 21687), (30, 21720), (32, 21735), (36, 21804), (38, 21834), (40, 21843), (41, 21849), (48, 21984), (50, 22017), (52, 22059), (53, 22089), (54, 22110), (55, 22131), (56, 22140), (63, 22248), (67, 22263), (72, 22362), (74, 22401), (77, 22425), (80, 22440), (82, 22473), (86, 22551), (90, 22593), (94, 22629), (97, 22656), (101, 22737), (103, 22815), (104, 22839), (105, 22845), (109, 22893), (114, 22971), (115, 22977), (116, 23025), (117, 23031), (121, 23097), (128, 23205), (129, 23223), (138, 23322),