



Blue lines represent the individually sequenced fragments of *msmeg_3461*. The sequencing primers are marked above the ORF.

		Section 1					
Msmeg-katG-coding 5-10-katGNter6R	(1)	1	10	20	30	49	
	(1)	-----					
	(1)	TGGACGGCCCCCTTGATCACAGCCCACATCACCAACCACCCGGAAGGATT					
		Section 2					
Msmeg-katG-coding 5-10-katGNter6R	(50)	50	60	70	80	98	
	(1)	-----	GTGT	CATCCG	ATACAT	CTGACAGCCGCCCACCCAACCCGGATAC	
	(50)	TCGCT	GTGT	CATCCG	ATACAT	CTGACAGCCGCCCACCCAACCCGGATAC	
		Section 3					
Msmeg-katG-coding 5-10-katGNter6R	(99)	99	110	120	130	147	
	(45)	GAAGACCGCGAGCACGAGCGAGAGCGAAAACCCCGCGATCCCTTCCCCG					
	(99)	GAAGACCGCGAGCACGAGCGAGAGCGAAAACCCCGCGATCCC					TCCCCG
		Section 4					
Msmeg-katG-coding 5-10-katGNter6R	(148)	148	160	170	180	196	
	(94)	AAGCCGAAATCGGGCGCTCCGCTTCGCAACCAGGACTGGTGG					CCCAACC
	(148)	AAGCCGAAATCGGGCGCTCCGCTTCGCAACCAGGACTGGTGG					CCCAACC
		Section 5					
Msmeg-katG-coding 5-10-katGNter6R	(197)	197	210	220	230	245	
	(143)	AGATCGACGTATCACGCCTGCATCCGCATCCCCCGCAGGGCA					AACCCGCT
	(197)	AGATCGACGTATCACGCCTGCATCCGCATCCCCCGCAGGGCA					AACCCGCT
		Section 6					
Msmeg-katG-coding 5-10-katGNter6R	(246)	246	260	270	280	294	
	(192)	GGGCGAAGACTTCGACTACGCCGAGGAATTCGCCAAGCTCGA					CGTGAAC
	(246)	GGGCGAAGACTTCGACTACGCCGAGGAATTCGCCAAGCTCGA					CGTGAAC
		Section 7					
Msmeg-katG-coding 5-10-katGNter6R	(295)	295	300	310	320	330	343
	(241)	GCGCTCAAGGCCGACCTCACGGCGCTGATGACGCAGTCCCAG					GACTGGT
	(295)	GCGCTCAAGGCCGACCTCACGGCGCTGATGACGCAGTCCCAG					GACTGGT
		Section 8					
Msmeg-katG-coding 5-10-katGNter6R	(344)	344	350	360	370	380	392
	(290)	GGCCCGCCGACTACGGGCACTACGGCGGCCTGTTTCATCCGTAT					TGAGCTG
	(344)	GGCCCGCCGACTACGGGCACTACGGCGGCCTGTTTCATCCGTAT					TGAGCTG
		Section 9					
Msmeg-katG-coding 5-10-katGNter6R	(393)	393	400	410	420	430	441
	(339)	GCACTCGGCAGGCACCTACCGCATCCATGACGGCCGCGGGGGCGGGCGGG					
	(393)	GCACTCGGCAGGCACCTACCGCATCCATGACGGCCGCGGGGGCGGGCGGG					

Untitled

		Section 10					
	(442)	442	450	460	470	480	490
Msmeg-katG-coding	(388)	CAGGGCGCCCAACGGTTCGCACCGATCAACTCGTGGCCCGACAACGTCA					
5-10-katGNter6R	(442)	CAGGGCGCCCAACGGTTCGCACCGATCAACTCGTGGCCCGACAACGTCA					
		Section 11					
	(491)	491	500	510	520		539
Msmeg-katG-coding	(437)	GCCTGGACAAGGCCAGAAGACTGTTGTGGCCCATCA					AA GT
5-10-katGNter6R	(491)	GCCTGGACAAGGCCAGAAGACTGTTGTGGCCCATCA					GCAG TCTT AA TA
		Section 12					
	(540)	540	550	560	570		588
Msmeg-katG-coding	(482)	AC	GC	AACA	AG	AT	CT
5-10-katGNter6R	(539)	AC	GC	CTAK	AG	GT	TT
		Section 13					
	(589)	589	600	610	620		637
Msmeg-katG-coding	(531)	GGCTTTGGAATCCATGGGCTTCAAGACGTTTGGCTTCGGCTTCGGCCGC					
5-10-katGNter6R	(554)	-----					
		Section 14					
	(638)	638	650	660	670		686
Msmeg-katG-coding	(580)	GAGGACATCTGGGAGCCAGAGGAGATCCTGTTGCGGAGGAAGACGAAT					
5-10-katGNter6R	(554)	-----					
		Section 15					
	(687)	687	700	710	720		735
Msmeg-katG-coding	(629)	GGCTGGGCACCGACAAGCGGTACGGCGGCGGCGAGCAGCGCCAACTCGC					
5-10-katGNter6R	(554)	-----					
		Section 16					
	(736)	736	750	760	770		784
Msmeg-katG-coding	(678)	CGAACCGTACGGTGCACACGATGGGCCTGATCTACGTCAACCCCGAA					
5-10-katGNter6R	(554)	-----					
		Section 17					
	(785)	785	790	800	810	820	833
Msmeg-katG-coding	(727)	GGCCCGGAGGGTCAACCCGACCCGCTCGCCGCGGCACACGACATCCGCG					
5-10-katGNter6R	(554)	-----					
		Section 18					
	(834)	834	840	850	860	870	882
Msmeg-katG-coding	(776)	AGACGTTTCGGCCGCATGGCGATGAACGACGAGGAGACCGCGGCGCTGAT					
5-10-katGNter6R	(554)	-----					

Untitled

Section 1

	(1)	1	10	20	30	49
Msmeg-katG-coding	(1)	GTGTCATCCGATACATCTGACAGCCGC				
5-10-katGNter1	(1)	-----GCGGGCCCGCCG				
5-10-katGNter2	(1)	-----				
5-10-katGNter5R	(1)	-----ARTC				

Section 2

	(50)	50	60	70	80	98
Msmeg-katG-coding	(50)	CCGCGAGCACGAGCGAGAGCGAAAACCCCGCGATCCCTTCCC				
5-10-katGNter1	(36)	CCGCGAGCACGAGCGAGAGCGAAAACCCCGCGATCCCTTCCCCGAAGCC				
5-10-katGNter2	(1)	-----				
5-10-katGNter5R	(5)	GAGCGGGAACGACGAGACGAA-----CCC				

Section 3

	(99)	99	110	120	130	147
Msmeg-katG-coding	(99)	GAAATCGGGCGCTCCGCTTCGCAACCAGGACTGGTGGCCCAACCAGATC				
5-10-katGNter1	(85)	RGAATCGGGCGCTCCGCTTCGCAACCAGGACTGGTGGCCCAACCAGATC				
5-10-katGNter2	(1)	-----				
5-10-katGNter5R	(45)	GAA--TCGT--CGTTC--GCTG--GCAAC--A--GACTGA--TAAGCC--AA--CAGATC				

Section 4

	(148)	148	160	170	180	196
Msmeg-katG-coding	(148)	GACGTATCACGCCTGCATCCGCATCCCCCGCAGGGCAACCCGCTGGGCG				
5-10-katGNter1	(134)	GACGTATCACGCCTGCATCCGCATCCCCCGCAGGGCAACCCGCTGGGCG				
5-10-katGNter2	(1)	-----				
5-10-katGNter5R	(86)	GACGTATCACGC--TGCATTCGCATCCCC--GCAGACCA--TCC--GCTGRGCG				

Section 5

	(197)	197	210	220	230	245
Msmeg-katG-coding	(197)	AA--GACTTCGACTACGCCGAGGAATTCGCCAAGCTCGACGTGAACGCGC				
5-10-katGNter1	(183)	AA--GACTTCGACTACGCCGAGGAATTCGCCAAGCTCGACGTGAACGCGC				
5-10-katGNter2	(1)	-----				
5-10-katGNter5R	(132)	AAAGACTTCGACTACGCCGAAGAATTCGCCAAGCTCGACGTGAACGCGC				

Section 6

	(246)	246	260	270	280	294
Msmeg-katG-coding	(245)	TCAAGG--CCGACCTCACGGCGCTGATGACGCAGTCCCA--GGACTGGTGG				
5-10-katGNter1	(231)	TCAAGG--CCGACCTCACGGCGCTGATGACGCAGTCCCA--GGACTGGTGG				
5-10-katGNter2	(1)	-----				
5-10-katGNter5R	(181)	TCAAAGAGCCGACCTCACGGCGCTGATGACGCAGTCCCAAGGACTGT--G				

Section 7

	(295)	295	300	310	320	330	343
Msmeg-katG-coding	(292)	CCCGCCGACTACGGGCACTACGGCGGCCTGTTTCATCCGTATGAGCTGGC					
5-10-katGNter1	(278)	CCCGCCGACTACGGGCACTACGGCGGCCTGTTTCATCCGTATGAGCTGGC					
5-10-katGNter2	(1)	-----					
5-10-katGNter5R	(228)	TCCGC--GACTACRRGCACTACRGCRGCCTGTTTCATCCGTATGAGCTGGC					

Section 8

	(344)	344	350	360	370	380	392
Msmeg-katG-coding	(341)	ACTCGGCAGGCACCTACCGCATCCATGACGGCCGCGGGGGCGGCGGGCA					
5-10-katGNter1	(327)	ACTCGGCAGGCACCTACCGCATCCATGACGGCCGCGGGGGCGGCGGGCA					
5-10-katGNter2	(1)	-----					
5-10-katGNter5R	(276)	ACTCGGCAGGCACCTACCGCATCCATGACGGCCGCGGGGGCGGCGGGCA					

Section 9

	(393)	393	400	410	420	430	441
Msmeg-katG-coding	(390)	GGGCGCCCCAACGGTTTCGCACCGATCAACTCGTGGCCCCGACAAACGTCAGC					
5-10-katGNter1	(376)	GGGCGCCCCAACGGTTTCGCACCGATCAACTCGTGGCCCCGACAAACGTCAGC					
5-10-katGNter2	(1)	-----					
5-10-katGNter5R	(325)	G ^R CGGCCCCAACGGTTTCGCACCGATCAACTCGTGGCCCCGACAAACGTCAGC					

Section 10

	(442)	442	450	460	470	480	490
Msmeg-katG-coding	(439)	CTGGACAAGGCCAGAAGACTGTTGTGGCCCATCAAGCAGAAGTACGGCA					
5-10-katGNter1	(425)	CTGGACAAGGCCAGAAGACTGTTGTGGCCCATCAAGCAGAAGTACGGCA					
5-10-katGNter2	(1)	-----					
5-10-katGNter5R	(374)	CTGGACAAGGCCAGAAGACTGTTGTGGCCCATCAAGCAGAAGTACGGCA					

Section 11

	(491)	491	500	510	520	539
Msmeg-katG-coding	(488)	ACAAGATCTCCTGGGCCGATCTTCTGGTGTTACCGGCAACGTGGCTTT				
5-10-katGNter1	(474)	ACAAGATCTCCTGGGCCGATCTTCTGGTGTTACCGGCAACGTGGCTTT				
5-10-katGNter2	(1)	-----				
5-10-katGNter5R	(423)	ACAAGATCTCCTGGGCCGATCTTCTGGTGTTACCGGCAACGTGGCTTT				

Section 12

	(540)	540	550	560	570	588
Msmeg-katG-coding	(537)	GGAATCCATGGGCTTCAAGACGTTTGGCTTCGGCTTCGGCCGCGAGGAC				
5-10-katGNter1	(523)	GGAATCCATGGGCTTCAAGACGTTTGGCTTCGGCTTCGGCCGCGAGGAC				
5-10-katGNter2	(1)	-----				
5-10-katGNter5R	(472)	GGAATCCATGGGCTTCAAGACGTTTGGCTTCGGCTTCGGCCGCGAGGAC				

Section 13

	(589)	589	600	610	620	637
Msmeg-katG-coding	(586)	ATCTGGGAGCCAGAGGAGATCCTGTT ^{CGG} ^{CGA} ^{GGAA} ^{GACGA} -ATGGCTG				
5-10-katGNter1	(572)	ATCTGGGAGCCAGAGGAGATCCTGTT ^{CGG} ^{CGA} ^{GGAA} ^{GACGA} -ATGGCTG				
5-10-katGNter2	(1)	-----A ^{CGG} ^{TA} ^{CKGS} ^G ^{GT} ^{GCG} ATGGCTG				
5-10-katGNter5R	(521)	ATCTGGGAGCCAGAGGAGATCCTGTT ^{CGG} ^{CGA} ^{GGAA} ^{GACGA} -ATGGCTG				

Section 14

	(638)	638	650	660	670	686
Msmeg-katG-coding	(634)	GGCACCGACA ^A GCGGTACGGCGGCGGCGAGCAGCGCCAACTCGCCGAAC				
5-10-katGNter1	(620)	GGCACCGACA ^A GCGGTACGGCGGCGGCGAGCAGCGCCAACTCGCCGAAC				
5-10-katGNter2	(25)	GGCACCGACA-GCGGTACGGCGGCGGCGAGCAGCGCCAACTCGCCGAAC				
5-10-katGNter5R	(569)	GGCACCGACA ^A GCGGTACGGCGGCGGCGAGCAGCGCCAACTCGCCGAAC				

Section 15

	(687)	687	700	710	720	735
Msmeg-katG-coding	(683)	CGTACGGTGCGACCACGATGGGCCTGATCTACGTCAACCCCGAAGGCCCG				
5-10-katGNter1	(669)	CGTACGGTGCGACCACGATGGGCCTGATCTACGTCAACCCCGAAGGCCCG				
5-10-katGNter2	(73)	CGTACGGTGCGACCACGATGGGCCTGATCTACGTCAACCCCGAAGGCCCG				
5-10-katGNter5R	(618)	CGTACGGTGCGACCACGATGGGCCTGATCTACGTCAACCCCGAAGGCCCG				

Section 16

	(736)	736	750	760	770	784
Msmeg-katG-coding	(732)	GGAGGGTCAACCCGACCCGCTCGCCGCGGCACACGACATCCGCGAGACG				
5-10-katGNter1	(718)	GGAGGGTCAACCCGACCCGCTCGCCGCGGCACACGACATCCGCGAGACG				
5-10-katGNter2	(122)	GGAGGGTCAACCCGACCCGCTCGCCGCGGCACACGACATCCGCGAGACG				
5-10-katGNter5R	(667)	GGAGGGTCAACCCGACCCGCTCGCCGCGGCACACGACATCCGCGAGACG				

Section 17

	(785)	785	790	800	810	820	833
Msmeg-katG-coding	(781)	TTCGG	CGCATGGCGATGAACGACGAGGAGACCGCG	CGCTG	GATCGT	CG	
5-10-katGNter1	(767)	TTCGG	CGCATGGCGATGAACGACGAGGAGACCGCG	-CGCTG	GATCGT	CG	
5-10-katGNter2	(171)	TTCGG	CGCATGGCGATGAACGACGAGGAGACCGCG	CGCTG	GATCGT	CG	
5-10-katGNter5R	(716)	TTCGG	CGCATGGCGATGAACGACGAGGAGACCGCG	CGCTG	GATCGT	CG	

Section 18

	(834)	834	840	850	860	870	882
Msmeg-katG-coding	(830)	GCG	GGCACACGTTTCGGCAAGACCCACGGCGC	GCGCATGC	AGC	TCGT	
5-10-katGNter1	(815)	C--	GGCACACGTTTCGGCAAGACCCACGGCGC	-GCGCATGC	-AGC	YTCGT	
5-10-katGNter2	(220)	GCG	GGCACACGTTTCGGCAAGACCCACGGCGC	GCGCATGC	AGC	TCGT	
5-10-katGNter5R	(765)	GCG	GGCACACGTTTCGGCAAGACCCACGGCGC	GCGCATGC	AGC	TCGT	

Section 19

	(883)	883	890	900	910	920	931
Msmeg-katG-coding	(879)	CGGTCC	GAGC	CGAG	GC	GAC	GATCGAGCAGCAAGGTCTCGGCTGG
5-10-katGNter1	(860)	CGGTCC	-GAGC	YCGAG	T	C-GCAC	-GATCGAGCAGCAAGA-CTCG-CTG-
5-10-katGNter2	(269)	CGGTCC	GAGC	CGAG	GC	GAC	GATCGAGCAGCAAGGTCTCGGCTGG
5-10-katGNter5R	(814)	CGGTCC	GAGC	CGAG	GC	GAC	GATCGAGCAGCAAGGTCTCGGCTGG

Section 20

	(932)	932	940	950	960	970	980
Msmeg-katG-coding	(928)	AAGAGTTC	CTACG	GACACGG	CAAGGGT	CCGAC	ACCA
5-10-katGNter1	(903)	-AAGAGTTC	-TACG	-CACGG	-CAA	--GT	TCCGAC-----TCA
5-10-katGNter2	(318)	AAGAGTTC	CTACG	GACACGG	CAAGGGT	CCGAC	ACCA
5-10-katGNter5R	(863)	AAGAGTTC	CTACG	GACACGG	CAAGGGT	CCGAC	ACCA

Section 21

	(981)	981	990	1000	1010	1029										
Msmeg-katG-coding	(977)	TG	GAG	TCGTGTG	GACC	AACA	CAC	CGAC	CA	AGTG	GG	ACA	AACA	GCT	TC	CT
5-10-katGNter1	(942)	TG	-AG	ATCGTGTG	----	A	-CA	ACT	CGAC	--	AGTG	--	ACA	-CA	GCT	--CT
5-10-katGNter2	(367)	TG	GAG	TCGTGTG	GACC	AACA	CAC	CGAC	CA	AGTG	GG	ACA	AACA	GCT	TC	CT
5-10-katGNter5R	(912)	TG	GAG	TCGTGTG	GACC	AACA	CAC	CGAC	CA	AGTG	GG	ACA	AACA	GCT	TC	CT

Section 22

	(1030)	1030		1040		1050		1060		1078
Msmeg-katG-coding (1026)		GGAGATCCTCTACGGCTACGAGTGGGAGCTGACCAAAGAGC								CCGGCCGGC
5-10-katGNter1 (978)		GA--ATCCT-TACG-CTAC-AGATGAAGCTGACTA-GAGC								-----
5-10-katGNter2 (416)		GGAGATCCTCTACGGCTACGAGTGGGAGCTGACCAAAGAGC								CCGGCCGGC
5-10-katGNter5R (961)		GGAGATCCTCTACGGCTACGAGTGGGAGCTGACCAAAGAGC								CCGGCCGGC

Section 23

	(1079)	1079		1090		1100		1110		1127
Msmeg-katG-coding (1075)		GCCTGGCAGTTCACCGCGAAGGACGGGGCAGGCGCGGGCACC								ATCCCGG
5-10-katGNter1 (1012)		-----								-----
5-10-katGNter2 (465)		GCCTGGCAGTTCACCGCGAAGGACGGGGCAGGCGCGGGCACC								ATCCCGG
5-10-katGNter5R (1010)		GCCTGGCAGT-CACCGCGAARM								AAWAC-----

Section 24

	(1128)	1128		1140		1150		1160		1176
Msmeg-katG-coding (1124)		ATCCGTTTCGGCGGGCCAGGACGCAACCCGAC								CATGCTGGTCACCGACAT
5-10-katGNter1 (1012)		-----								-----
5-10-katGNter2 (514)		ATCCGTTTCGGCGGGCCAGGACGCAACCCGAMC								CATGCTA-----
5-10-katGNter5R (1037)		-----								-----

Section 25

	(1177)	1177		1190		1200		1210		1225
Msmeg-katG-coding (1173)		CTCGATGCGCGTGGACCCGATCTACGGGAAGATCACGCGCCGGTGGCTC								
5-10-katGNter1 (1012)		-----								-----
5-10-katGNter2 (553)		-----								-----
5-10-katGNter5R (1037)		-----								-----

Section 26

	(1226)	1226		1240		1250		1260		1274
Msmeg-katG-coding (1222)		GACCATCCCAGAGGAGCTCTCGGAGGCCTTCGCGAAGGCCTGGTACAAGC								
5-10-katGNter1 (1012)		-----								-----
5-10-katGNter2 (553)		-----								-----
5-10-katGNter5R (1037)		-----								-----

Section 27

	(1275)	1275		1280		1290		1300		1310		1323
Msmeg-katG-coding (1271)		TGCTGCACCGCGACATGGGACCGATCTCGCGGTATCTGGGGCCCTGGGT										
5-10-katGNter1 (1012)		-----										-----
5-10-katGNter2 (553)		-----										-----
5-10-katGNter5R (1037)		-----										-----

Section 28

	(1324)	1324		1330		1340		1350		1360		1372
Msmeg-katG-coding (1320)		CGCCGAACCGCAGCTGTGGCAGGACCCGGTCCCGGCGGTTCGATCATCCG										
5-10-katGNter1 (1012)		-----										-----
5-10-katGNter2 (553)		-----										-----
5-10-katGNter5R (1037)		-----										-----

		Section 25					
	(1153)	1153	1160	1170	1180	1190	1200
Msmeg-katG-coding	(1153)	A	C	ATGCTGGTCACCGACATCTCGATGCGCGTGGACCCGATCTACGGG			
5-10-katG-Cterm-1-8R	(1)	-----					
5-10-katG-Cterm-3s	(12)	M	C	A	ATGCTGGTCACCGA	CATCTCGATGCGCGTGGACCCGATCTACGGG	
		Section 26					
	(1201)	1201	1210	1220	1230	1248	
Msmeg-katG-coding	(1201)	AAGATCACGCGCCGGTGGCTCGACCATCCCGAGGAGCTCTCGGAGGCC					
5-10-katG-Cterm-1-8R	(1)	-----					
5-10-katG-Cterm-3s	(60)	AAGATCACGCGCCGGTGGCTCGACCATCCCGAGGAGCTCTCGGAGGCC					
		Section 27					
	(1249)	1249	1260	1270	1280	1296	
Msmeg-katG-coding	(1249)	TTCGCGAAGGCCTGGTACAAGCTGCTGCACCGCGACATGGGACCGATC					
5-10-katG-Cterm-1-8R	(1)	-----					
5-10-katG-Cterm-3s	(108)	TTCGCGAAGGCCTGGTACAAGCTGCTGCACCGCGACATGGGACCGATC					
		Section 28					
	(1297)	1297	1310	1320	1330	1344	
Msmeg-katG-coding	(1297)	TCGCGGTATCTGGGGCCCTGGGTCGCCGAACCGCAGCTGTGGCAGGAC					
5-10-katG-Cterm-1-8R	(1)	-----					
5-10-katG-Cterm-3s	(156)	TCGCGGTATCTGGGGCCCTGGGTCGCCGAACCGCAGCTGTGGCAGGAC					
		Section 29					
	(1345)	1345	1350	1360	1370	1380	1392
Msmeg-katG-coding	(1345)	CCGGTCCCGGCGGTTCGATCATCCGCTGGTCGACGACCAGGACATCGCC					
5-10-katG-Cterm-1-8R	(1)	-----					
5-10-katG-Cterm-3s	(204)	CCGGTCCCGGCGGTTCGATCATCCGCTGGTCGACGACCAGGACATCGCC					
		Section 30					
	(1393)	1393	1400	1410	1420	1430	1440
Msmeg-katG-coding	(1393)	GCGCTGAAGTCCACGGTGCTCGATTCCGGGCTGTCGACGGGACAAC TG					
5-10-katG-Cterm-1-8R	(1)	-----					
5-10-katG-Cterm-3s	(252)	GCGCTGAAGTCCACGGTGCTCGATTCCGGGCTGTCGACGGGACAAC TG					
		Section 31					
	(1441)	1441	1450	1460	1470	1488	
Msmeg-katG-coding	(1441)	ATCA	AGACTGCGTGGGC	GTCGGCGGCGAGCTACCGCAACACCGACAAG			
5-10-katG-Cterm-1-8R	(1)	----	AGACTGCGTGGGC	GTCGGCGGCGAGCTACCGCAACACCGACAAG			
5-10-katG-Cterm-3s	(300)	ATCA	AGACTGCGTGGGC	GTCGGCGGCGAGCTACCGCAACACCGACAAG			
		Section 32					
	(1489)	1489	1500	1510	1520	1536	
Msmeg-katG-coding	(1489)	CGCGGCGGCGCCAAACGGGGCCCGGGTGCGTCTGGAACCGCAGAAGAAC					
5-10-katG-Cterm-1-8R	(45)	CGCGGCGGCGCCAAACGGGGCCCGGGTGCGTCTGGAACCGCAGAAGAAC					
5-10-katG-Cterm-3s	(348)	CGCGGCGGCGCCAAACGGGGCCCGGGTGCGTCTGGAACCGCAGAAGAAC					

Section 33

	(1537)	1537	1550	1560	1570	1584
Msmeg-katG-coding	(1537)	TGGGACGTCAACGAACCGGCCGAACTGGCCACGGTGCTGCCGGTGCTC				
5-10-katG-Cterm-1-8R	(93)	TGGGACGTCAACGAACCGGCCGAACTGGCCACGGTGCTGCCGGTGCTC				
5-10-katG-Cterm-3s	(396)	TGGGACGTCAACGAACCGGCCGAACTGGCCACGGTGCTGCCGGTGCTC				

Section 34

	(1585)	1585	1590	1600	1610	1620	1632
Msmeg-katG-coding	(1585)	GAGCGGATCCAGCAGGACTTCAACGCCTCGGCATCCGGCGGCAAGAAG					
5-10-katG-Cterm-1-8R	(141)	GAGCGGATCCAGCAGGACTTCAACGCCTCGGCATCCGGCGGCAAGAAG					
5-10-katG-Cterm-3s	(444)	GAGCGGATCCAGCAGGACTTCAACGCCTCGGCATCCGGCGGCAAGAAG					

Section 35

	(1633)	1633	1640	1650	1660	1670	1680
Msmeg-katG-coding	(1633)	GTCTCGTTGGCCGACCTGATCGTGCTGGCCGGTTCGGCGGCGATCGAG					
5-10-katG-Cterm-1-8R	(189)	GTCTCGTTGGCCGACCTGATCKKTWWRYKA-----					
5-10-katG-Cterm-3s	(492)	GTCTCGTTGGCCGACCTGATCGTGCTGGCCGGTTCGGCGGCGATCGAG					

Section 36

	(1681)	1681	1690	1700	1710	1728
Msmeg-katG-coding	(1681)	AAGGCCGCCAAGGACGGTGGCTACAACGTCACGGTGCCGTTTCGCACCG				
5-10-katG-Cterm-1-8R	(219)	-----				
5-10-katG-Cterm-3s	(540)	AAGGCCGCCAAGGACA-----				

Section 37

	(1729)	1729	1740	1750	1760	1776
Msmeg-katG-coding	(1729)	GGACGCACGGACGCGAGCCAGGAGAACACCGACGTGGAGTCTTTCGCG				
5-10-katG-Cterm-1-8R	(219)	-----				
5-10-katG-Cterm-3s	(556)	-----				

Section 38

	(1777)	1777	1790	1800	1810	1824
Msmeg-katG-coding	(1777)	GTGCTCGAGCCGCGGGCCGACGGGTTCGCAACTACGTCCGCCCGGGT				
5-10-katG-Cterm-1-8R	(219)	-----				
5-10-katG-Cterm-3s	(556)	-----				

Section 39

	(1825)	1825	1830	1840	1850	1860	1872
Msmeg-katG-coding	(1825)	GAGAAGGTCCAGCTGGAGAAGATGCTGCTCGAACGGGCGTACTTCCTG					
5-10-katG-Cterm-1-8R	(219)	-----					
5-10-katG-Cterm-3s	(556)	-----					

Section 40

	(1873)	1873	1880	1890	1900	1910	1920
Msmeg-katG-coding	(1873)	GGCGTGACCGCACCGCAGCTGACGGCTCTGGTCGGCGGGTTGCGCGCG					
5-10-katG-Cterm-1-8R	(219)	-----					
5-10-katG-Cterm-3s	(556)	-----					

Section 41

	(1921)	1921	1930	1940	1950	1968
Msmeg-katG-coding	(1921)	CTGGACGTCAACCACGGCGGCACCAAACACGGTGTGTTACCGACCGG				
5-10-katG-Cterm-1-8R	(219)	-----				
5-10-katG-Cterm-3s	(556)	-----				

Section 42

	(1969)	1969	1980	1990	2000	2016
Msmeg-katG-coding	(1969)	CCGGGCGCTTTGACCAACGACTTCTTCGTCAACCTGCTCGACATGGGC				
5-10-katG-Cterm-1-8R	(219)	-----				
5-10-katG-Cterm-3s	(556)	-----				

Section 43

	(2017)	2017	2030	2040	2050	2064
Msmeg-katG-coding	(2017)	ACCGAGTGGAAGACCTCGGAGACGACGGAGAACGTCTACGAGGGAGTC				
5-10-katG-Cterm-1-8R	(219)	-----				
5-10-katG-Cterm-3s	(556)	-----				

Section 44

	(2065)	2065	2070	2080	2090	2100	2112
Msmeg-katG-coding	(2065)	GATCGCAAGACCGGACAGTTGAAGTGGACCGCGACCGCGAATGACCTT					
5-10-katG-Cterm-1-8R	(219)	-----					
5-10-katG-Cterm-3s	(556)	-----					

Section 45

	(2113)	2113	2120	2130	2140	2150	2160
Msmeg-katG-coding	(2113)	GTGTTGCGGTCACATTCGGTGCTGCGTGCCGTGGCCGAGGTTTATGCC					
5-10-katG-Cterm-1-8R	(219)	-----					
5-10-katG-Cterm-3s	(556)	-----					

Section 46

	(2161)	2161	2170	2180	2190	2208
Msmeg-katG-coding	(2161)	CAGTCCGACAACGGCGAACGGTTCGTCAACGACTTCGTCAAGGCCTGG				
5-10-katG-Cterm-1-8R	(219)	-----				
5-10-katG-Cterm-3s	(556)	-----				

Section 47

	(2209)	2209	2220	2230	2247
Msmeg-katG-coding	(2209)	GTCAAGGTCATGAACAACGACCGGTTTCGACCTCAAGTAA			
5-10-katG-Cterm-1-8R	(219)	-----			
5-10-katG-Cterm-3s	(556)	-----			

		Section 19				
	(883)	883	890	900	910	920 931
Msmeg-katG-coding	(883)	CCCGAGCCCGAGGCCGCACCGATCGAGCAGCAGGGTCTCGGCTGGAAGA				
5-10-katG-Cmidd	(1)	-----				
		Section 20				
	(932)	932	940	950	960	970 980
Msmeg-katG-coding	(932)	GTTCTTACGGCACGGGCAAGGGTCCCGACACCATCACCAGCGGGCTGGA				
5-10-katG-Cmidd	(1)	-----				
		Section 21				
	(981)	981	990	1000	1010	1029
Msmeg-katG-coding	(981)	GGTCGTGTGGACCAACACACCGACCAAGTGGGACAACAGCTTCCTGGAG				
5-10-katG-Cmidd	(1)	-----				
		Section 22				
	(1030)	1030	1040	1050	1060	1078
Msmeg-katG-coding	(1030)	ATCCTCTACGGCTACGAGTGGGAGCTGACCAAGAGCCCGGCCGGCGCCT				
5-10-katG-Cmidd	(1)	-----				
		Section 23				
	(1079)	1079	1090	1100	1110	1127
Msmeg-katG-coding	(1079)	GGCAGTTCACCGCGAAGGACGGGGCAGGCGCGGGCACCATCCCGGATCC				
5-10-katG-Cmidd	(1)	-----				
		Section 24				
	(1128)	1128	1140	1150	1160	1176
Msmeg-katG-coding	(1128)	GTTCTGGCGGGCCAGGACGCAACCCGACCATGCTGGTCACCGACATCTCG				
5-10-katG-Cmidd	(1)	-----				
		Section 25				
	(1177)	1177	1190	1200	1210	1225
Msmeg-katG-coding	(1177)	ATGCGCGTGGACCCGATCTACGGGAAGATCACGCGCCGGTGGCTCGACC				
5-10-katG-Cmidd	(1)	-----				
		Section 26				
	(1226)	1226	1240	1250	1260	1274
Msmeg-katG-coding	(1226)	ATCCCGAGGAGCTCTCGGAGGCCTTCGCGAAGGCCTGGTACAAGCTGCT				
5-10-katG-Cmidd	(1)	-----				
		Section 27				
	(1275)	1275	1280	1290	1300	1310 1323
Msmeg-katG-coding	(1275)	GCACCGCGA CATGGG AC CGATCT CGCG GTATCTGGGGCCCTGGGTGCGC				
5-10-katG-Cmidd	(1)	----- CATGGG CW CGATCT KCGC GTATCTGGGGCCCTGGGTGCGC				

		Section 28					
	(1324)	1324	1330	1340	1350	1360	1372
Msmeg-katG-coding	(1324)	GAACCGCAGCTGTGGCAGGACCCGGTCCC GGCGGTTCGATCATCCGCTGG					
5-10-katG-Cmidd	(41)	GAACCGCAGCTGTGGCAGGACCCGGTCCC GGCGGTTCGATCATCCGCTGG					
		Section 29					
	(1373)	1373	1380	1390	1400	1410	1421
Msmeg-katG-coding	(1373)	TCGACGACCAGGACATCGCCGCGCTGAAGTCCACGGTGCTCGATTCCGG					
5-10-katG-Cmidd	(90)	TCGACGACCAGGACATCGCCGCGCTGAAGTCCACGGTGCTCGATTCCGG					
		Section 30					
	(1422)	1422	1430	1440	1450	1460	1470
Msmeg-katG-coding	(1422)	GCTGTTCGACGGGACAACCTGATCAAGACTGCGTG GGGCGTCGGCGGGCAGAGC					
5-10-katG-Cmidd	(139)	GCTGTTCGACGGGACAACCTGATCAAGACTGCGTG GGGCGTCGGCGGGCAGAGC					
		Section 31					
	(1471)	1471	1480	1490	1500		1519
Msmeg-katG-coding	(1471)	TACCGCAACACCGACAAGCGCGGGCGGCCCAACGGGGCCCGGGTGCGTTC					
5-10-katG-Cmidd	(188)	TACCGCAACACCGACAAGCGCGGGCGGCCCAACGGGGCCCGGGTGCGTTC					
		Section 32					
	(1520)	1520	1530	1540	1550		1568
Msmeg-katG-coding	(1520)	TGGAAACCGCAGAAGAAGCTGGGACGTCAACGAACCGGCCGAAC TGGCCAC					
5-10-katG-Cmidd	(237)	TGGAAACCGCAGAAGAAGCTGGGACGTCAACGAACCGGCCGAAC TGGCCAC					
		Section 33					
	(1569)	1569	1580	1590	1600		1617
Msmeg-katG-coding	(1569)	GGTGCTGCCGGTGCTCGAGCGGATCCAGCAGGACTTCAACGCC CTCGGCA					
5-10-katG-Cmidd	(286)	GGTGCTGCCGGTGCTCGAGCGGATCCAGCAGGACTTCAACGCC CTCGGCA					
		Section 34					
	(1618)	1618	1630	1640	1650		1666
Msmeg-katG-coding	(1618)	TCCGGCGGCAAGAAGGTCTCGTTGGCCGACCTGATCGTGCTGGCCGGTT					
5-10-katG-Cmidd	(335)	TCCGGCGGCAAGAAGGTCTCGTTGGCCGACCTGATCGTGCTGGCCGGTT					
		Section 35					
	(1667)	1667	1680	1690	1700		1715
Msmeg-katG-coding	(1667)	CGGCGGGCGATCGAGAAGGCCGCCAAGGACGGTGGCTACAACGTCACGGT					
5-10-katG-Cmidd	(384)	CGGCGGGCGATCGAGAAGGCCGCCAAGGACGGTGGCTACAACGTCACGGT					
		Section 36					
	(1716)	1716	1730	1740	1750		1764
Msmeg-katG-coding	(1716)	GCCGTTTCGCACCGGGACGCACGGACGCGAGCCAGGAGAACACCGACGTG					
5-10-katG-Cmidd	(433)	GCCGTTTCGCACCGGGACGCACGGACGCGAGCCAGGAGAACACCGACGTG					

		Section 37					
	(1765)	1765	1770	1780	1790	1800	1813
Msmeg-katG-coding	(1765)	GAGTCCTTCGCGGTGCTCGAGCCGCGGGCC					GACGGGTTCGCAACTACG
5-10-katG-Cmidd	(482)	GAGTCCTTCGCGGTGCTCGAGCCGCGGGCC					-----
		Section 38					
	(1814)	1814	1820	1830	1840	1850	1862
Msmeg-katG-coding	(1814)	TCCGCCCCGGGTGAGAAGGTCCAGCTGGAGAAGATGCTGCTCGAACGGGC					
5-10-katG-Cmidd	(512)	-----					
		Section 39					
	(1863)	1863	1870	1880	1890	1900	1911
Msmeg-katG-coding	(1863)	GTACTTCCTGGGCGTGACCGCACCGCAGCTGACGGCTCTGGTCGGCGGG					
5-10-katG-Cmidd	(512)	-----					
		Section 40					
	(1912)	1912	1920	1930	1940	1950	1960
Msmeg-katG-coding	(1912)	TTGCGCGCGCTGGACGTCAACCACGGCGGCACCAAACACGGTGTGTTCA					
5-10-katG-Cmidd	(512)	-----					
		Section 41					
	(1961)	1961	1970	1980	1990	2009	
Msmeg-katG-coding	(1961)	CCGACCGGCCGGGCGCTTTGACCAACGACTTCTTCGTCAACCTGCTCGA					
5-10-katG-Cmidd	(512)	-----					
		Section 42					
	(2010)	2010	2020	2030	2040	2058	
Msmeg-katG-coding	(2010)	CATGGGCACCGAGTGGAAGACCTCGGAGACGACGGAGAACGTCTACGAG					
5-10-katG-Cmidd	(512)	-----					
		Section 43					
	(2059)	2059	2070	2080	2090	2107	
Msmeg-katG-coding	(2059)	GGAGTCGATCGCAAGACCGGACAGTTGAAGTGGACCGCGACCGCGAATG					
5-10-katG-Cmidd	(512)	-----					
		Section 44					
	(2108)	2108	2120	2130	2140	2156	
Msmeg-katG-coding	(2108)	ACCTTGTGTTTCGGGTCACATTCGGTGCTGCGTGCCGTGGCCGAGGTTTA					
5-10-katG-Cmidd	(512)	-----					
		Section 45					
	(2157)	2157	2170	2180	2190	2205	
Msmeg-katG-coding	(2157)	TGCCCAGTCCGACAACGGCGAACGGTTCGTCAACGACTTCGTCAAGGCC					
5-10-katG-Cmidd	(512)	-----					

Section 1

	(1)	1	10	20	30	40	51
Msmeg-katG-coding	(1)	GTGTCATCCGATACATCTGACAGCCGCCACCCAACCCGGATACGAAGACC					
9-06-2-4fkatG	(1)	-----					
9-06-4fCter-katG	(1)	-----					

Section 2

	(52)	52	60	70	80	90	102
Msmeg-katG-coding	(52)	GCGAGCACGAGCGAGAGCGAAAAACCCGCGATCCCTTCCCCGAAGCCGAAA					
9-06-2-4fkatG	(1)	-----					
9-06-4fCter-katG	(1)	-----					

Section 3

	(103)	103	110	120	130	140	153
Msmeg-katG-coding	(103)	TCGGGCGCTCCGCTTCGCAACCAGGACTGGTGGCCCAACCAGATCGACGTA					
9-06-2-4fkatG	(1)	-----					
9-06-4fCter-katG	(1)	-----					

Section 4

	(154)	154	160	170	180	190	204
Msmeg-katG-coding	(154)	TCACGCCTGCATCCGCATCCCCCGCAGGGCAACCCGCTGGGCGAAGACTTC					
9-06-2-4fkatG	(1)	-----					
9-06-4fCter-katG	(1)	-----					

Section 5

	(205)	205	210	220	230	240	255
Msmeg-katG-coding	(205)	GACTACGCCGAGGAATTGCGCAAGCTCGACGTGAACGCGCTCAAGGCCGAC					
9-06-2-4fkatG	(1)	-----					
9-06-4fCter-katG	(1)	-----					

Section 6

	(256)	256	270	280	290	306
Msmeg-katG-coding	(256)	CTCACGGCGCTGATGACGCAGTCCCAGGACTGGTGGCCCGCCGACTACGGG				
9-06-2-4fkatG	(1)	-----				
9-06-4fCter-katG	(1)	-----				

Section 7

	(307)	307	320	330	340	357
Msmeg-katG-coding	(307)	CACTACGGCGGCCCTGTTTCATCCGTATGAGCTGGCACTCGGCAGGCACCTAC				
9-06-2-4fkatG	(1)	-----				
9-06-4fCter-katG	(1)	-----				

Section 8

	(358)	358	370	380	390	408
Msmeg-katG-coding	(358)	CGCATCCATGACGGCCGCGGGGGCGGGCGGGCAGGGCGCCCAACGGTTCGCA				
9-06-2-4fkatG	(1)	-----				
9-06-4fCter-katG	(1)	-----				

Section 9

	(409)	409	420	430	440	459
Msmeg-katG-coding	(409)	CCGATCAACTCGTGGCCCGACAACGTCAGCCTGGACAAGGCCAGAAGACTG				
9-06-2-4fkatG	(1)	-----				
9-06-4fCter-katG	(1)	-----				

Section 10

	(460)	460	470	480	490	500	510
Msmeg-katG-coding	(460)	TTGTGGCCCATCAAGCAGAAGTACGGCAACAAGATCTCCTGGGCCGATCTT					
9-06-2-4fkatG	(1)	-----					
9-06-4fCter-katG	(1)	-----					

Section 11

	(511)	511	520	530	540	550	561
Msmeg-katG-coding	(511)	CTGGTGTTCACCGGCAACGTGGCTTTGGAATCCATGGGCTTCAAGACGTTT					
9-06-2-4fkatG	(1)	-----					
9-06-4fCter-katG	(1)	-----					

Section 12

	(562)	562	570	580	590	600	612
Msmeg-katG-coding	(562)	GGCTTCGGCTTCGGCCGCGAGGACATCTGGGAGCCAGAGGAGATCCTGTTC					
9-06-2-4fkatG	(1)	-----					
9-06-4fCter-katG	(1)	-----					

Section 13

	(613)	613	620	630	640	650	663
Msmeg-katG-coding	(613)	GGCGAGGAAGACGAATGGCTGGGCACCGACAAGCGGTACGGCGGGCGGCGAG					
9-06-2-4fkatG	(1)	-----					
9-06-4fCter-katG	(1)	-----					

Section 14

	(664)	664	670	680	690	700	714
Msmeg-katG-coding	(664)	CAGCGCCAACTCGCCGAACCGTACGGTGCGACCACGATGGGCCTGATCTAC					
9-06-2-4fkatG	(1)	-----					
9-06-4fCter-katG	(1)	-----					

		Section 15					
	(715)	715	720	730	740	750	765
Msmeg-katG-coding	(715)	GTCAACCCCGAAGGCCCGGAGGGTCAACCCGACCCGCTCGCCGCGGCACAC					
9-06-2-4fkatG	(1)	-----					
9-06-4fCter-katG	(1)	-----					
		Section 16					
	(766)	766	780	790	800		816
Msmeg-katG-coding	(766)	GACATCCGCGAGACGTTTCGGCCGCATGGCGATGAACGACGAGGAGACCGCG					
9-06-2-4fkatG	(1)	-----					
9-06-4fCter-katG	(1)	-----					
		Section 17					
	(817)	817	830	840	850		867
Msmeg-katG-coding	(817)	GCGCTGATCGTCGGCGGGCACACGTTTCGGCAAGACCCACGGCGCCGGCGAT					
9-06-2-4fkatG	(1)	-----					
9-06-4fCter-katG	(1)	-----					
		Section 18					
	(868)	868	880	890	900		918
Msmeg-katG-coding	(868)	GCCAGCCTCGTCGGTCCCGAGCCCGAGGGCCGACCCGATCGAGCAGCAGGGT					
9-06-2-4fkatG	(1)	-----					
9-06-4fCter-katG	(1)	-----					
		Section 19					
	(919)	919	930	940	950		969
Msmeg-katG-coding	(919)	CTCGGCTGGAAGAGTTCCTACGGCACGGGCAAGGGTCCCGACACCATCACC					
9-06-2-4fkatG	(1)	-----					
9-06-4fCter-katG	(1)	-----					
		Section 20					
	(970)	970	980	990	1000	1010	1020
Msmeg-katG-coding	(970)	AGCGGGCTGGAGGTCGTGTGGACCAACACACCGACCAAGTGGGACAACAGC					
9-06-2-4fkatG	(1)	-----					
9-06-4fCter-katG	(1)	-----					
		Section 21					
	(1021)	1021	1030	1040	1050	1060	1071
Msmeg-katG-coding	(1021)	TTCCTGGAGATCCTCTACGGCTACGAGTGGGAGCTGACCAAGAGCCCGGCC					
9-06-2-4fkatG	(1)	-----					
9-06-4fCter-katG	(1)	-----					

		Section 22					
	(1072)	1072	1080	1090	1100	1110	1122
Msmeg-katG-coding	(1072)	GGCGCCTGGCAGTTCACCGCGAAGGACGGGGCAGGCGCGGGCACCATCCCG					
9-06-2-4fkatG	(1)	-----					
9-06-4fCter-katG	(1)	-----					
		Section 23					
	(1123)	1123	1130	1140	1150	1160	1173
Msmeg-katG-coding	(1123)	GATCCGTTTCGGCGGGCCAGGACGCAACCCGACCATGCTGGTTCACCGACATC					
9-06-2-4fkatG	(1)	-----					
9-06-4fCter-katG	(1)	-----					
		Section 24					
	(1174)	1174	1180	1190	1200	1210	1224
Msmeg-katG-coding	(1174)	TCGATGCGCGTGGACCCGATCTACGGGAAGATCACGCGCCGGTGGCTCGAC					
9-06-2-4fkatG	(1)	-----					
9-06-4fCter-katG	(1)	-----					
		Section 25					
	(1225)	1225	1230	1240	1250	1260	1275
Msmeg-katG-coding	(1225)	CATCCCGAGGAGCTCTCGGAGGCCTTCGCGAAGGCCTGGTACAAGCTGCTG					
9-06-2-4fkatG	(1)	-----					
9-06-4fCter-katG	(1)	-----					
		Section 26					
	(1276)	1276	1290	1300	1310		1326
Msmeg-katG-coding	(1276)	CACCGCGACATGGGACCGATCTCGCGGTATCTGGGGCCCTGGGTCGCCGAA					
9-06-2-4fkatG	(1)	-----					
9-06-4fCter-katG	(1)	-----					
		Section 27					
	(1327)	1327	1340	1350	1360		1377
Msmeg-katG-coding	(1327)	CCGCAGCTGTGGCAGGACCCGGTCCCGGCGGTTCGATCATCCGCTGGTCGAC					
9-06-2-4fkatG	(1)	-----					
9-06-4fCter-katG	(1)	-----					
		Section 28					
	(1378)	1378	1390	1400	1410		1428
Msmeg-katG-coding	(1378)	GACCAGGACATCGCCGCGCTGAAGTCCACGGTGCTCGATTCCGGGCTGTCTG					
9-06-2-4fkatG	(1)	-----					
9-06-4fCter-katG	(1)	-----					

Section 29

	(1429)	1429	1440	1450	1460	1479
Msmeg-katG-coding	(1429)	ACGGGACAAC TGATCAAGACTGCGTGGGCGTCGGCGGCGAGCTACCGCAAC				
9-06-2-4fkatG	(1)	-----				
9-06-4fCter-katG	(1)	-----				

Section 30

	(1480)	1480	1490	1500	1510	1520	1530
Msmeg-katG-coding	(1480)	ACCGACAAGCGCGGCGGCCAACGGGGCCCGGTGCGTCTGGAACCGCAG					
9-06-2-4fkatG	(1)	-----					
9-06-4fCter-katG	(1)	-----					

Section 31

	(1531)	1531	1540	1550	1560	1570	1581
Msmeg-katG-coding	(1531)	AAGAACTGGGACGTCAACGAACCGGCCGAAC TGGCCACGGTGCTGCCGGTG					
9-06-2-4fkatG	(1)	-----					
9-06-4fCter-katG	(1)	-----					

Section 32

	(1582)	1582	1590	1600	1610	1620	1632
Msmeg-katG-coding	(1582)	CTCGAGCGGATCCAGCAGGACTTCAACGCCTCGGCATCCGGCGGCAAGAAG					
9-06-2-4fkatG	(1)	-----					
9-06-4fCter-katG	(1)	-----					

Section 33

	(1633)	1633	1640	1650	1660	1670	1683
Msmeg-katG-coding	(1633)	GTCTCGTTGGCCGACCTGATCGTGCTGGCCGGTTCGGCGGCGATCGAGAAG					
9-06-2-4fkatG	(1)	-----					
9-06-4fCter-katG	(1)	-----					

Section 34

	(1684)	1684	1690	1700	1710	1720	1734
Msmeg-katG-coding	(1684)	GCCGCCAAGGACGGTGGCTACAACGTCACGGTGCCGTTTCGCACGGGACGC					
9-06-2-4fkatG	(1)	-----CWWRYMC					
9-06-4fCter-katG	(1)	-----CTRAMAM					

Section 35

	(1735)	1735	1740	1750	1760	1770	1785
Msmeg-katG-coding	(1735)	ACGGACGCGAGCCAGGAGACACCGACGTGGAGTCCTTCGCGGTGCTCGAG					
9-06-2-4fkatG	(9)	MGCGM-GCGR GCCAGGAGA-CACCGACGTGGAGTCCTTCGCGGTGCTCGAG					
9-06-4fCter-katG	(9)	A-RGM-GCGAGCCAGGAGA-CACCGACGTGGAGTCCTTCGCGGTGCTCGAG					

						Section 36
	(1786)	1786	1800	1810	1820	1836
Msmeg-katG-coding	(1786)	CCGCGGGCCGACGGGTTCCGCAACTACGTCCGCCCGGGTGAGAAGGTCCAG				
9-06-2-4fkatG	(58)	CCGCGGGCCGACGGGTTCCGCAACTACGTCCGCCCGGGTGAGAAGGTCCAG				
9-06-4fCter-katG	(57)	CCGCGGGCCGACGGGTTCCGCAACTACGTCCGCCCGGGTGAGAAGGTCCAG				
						Section 37
	(1837)	1837	1850	1860	1870	1887
Msmeg-katG-coding	(1837)	CTGGAGAAGATGCTGCTCGAACGGGCGTACTTCCTGGGCGTGACCGCACCG				
9-06-2-4fkatG	(109)	CTGGAGAAGATGCTGCTCGAACGGGCGTACTTCCTGGGCGTGACCGCACCG				
9-06-4fCter-katG	(108)	CTGGAGAAGATGCTGCTCGAACGGGCGTACTTCCTGGGCGTGACCGCACCG				
						Section 38
	(1888)	1888	1900	1910	1920	1938
Msmeg-katG-coding	(1888)	CAGCTGACGGCTCTGGTCGGCGGGTTGCGCGCGCTGGACGTCAACCACGGC				
9-06-2-4fkatG	(160)	CAGCTGACGGCTCTGGTCGGCGGGTTGCGCGCGCTGGACGTCAACCACGGC				
9-06-4fCter-katG	(159)	CAGCTGACGGCTCTGGTCGGCGGGTTGCGCGCGCTGGACGTCAACCACGGC				
						Section 39
	(1939)	1939	1950	1960	1970	1989
Msmeg-katG-coding	(1939)	GGCACCAAACACGGTGTGTTACCGACCGGCCGGGCGCTTTGACCAACGAC				
9-06-2-4fkatG	(211)	GGCACCAAACACGGTGTGTTACCGACCGGCCGGGCGCTTTGACCAACGAC				
9-06-4fCter-katG	(210)	GGCACCAAACACGGTGTGTTACCGACCGGCCGGGCGCTTTGACCAACGAC				
						Section 40
	(1990)	1990	2000	2010	2020	2030 2040
Msmeg-katG-coding	(1990)	TTCTTCGTCAACCTGCTCGACATGGGCACCGAGTGGAAGACCTCGGAGACG				
9-06-2-4fkatG	(262)	TTCTTCGTCAACCTGCTCGACATGGGCACCGAGTGGAAGACCTCGGAGACG				
9-06-4fCter-katG	(261)	TTCTTCGTCAACCTGCTCGACATGGGCACCGAGTGGAAGACCTCGGAGACG				
						Section 41
	(2041)	2041	2050	2060	2070	2080 2091
Msmeg-katG-coding	(2041)	ACGGAGAACGTCTACGAGGGAGTCGATCGCAAGACCGGACAGTTGAAGTGG				
9-06-2-4fkatG	(313)	ACGGAGAACGTCTACGAGGGAGTCGATCGCAAGACCGGACAGTTGAAGTGG				
9-06-4fCter-katG	(312)	ACGGAGAACGTCTACGAGGGAGTCGATCGCAAGACCGGACAGTTGAAGTGG				
						Section 42
	(2092)	2092	2100	2110	2120	2130 2142
Msmeg-katG-coding	(2092)	ACCGCGACCGCGAATGACCTTGTGTTCTGGGTCACATTCGGTGCTGCGTGCC				
9-06-2-4fkatG	(364)	ACCGCGACCGCGAATGACCTTGTGTTCTGGGTCACATTCGGTGCTGCGTGCC				
9-06-4fCter-katG	(363)	ACCGCGACCGCGAATGACCTTGTGTTCTGGGTCACATTCGGTGCTGCGTGCC				

							Section 43
	(2143)	<u>2143</u>	<u>2150</u>	<u>2160</u>	<u>2170</u>	<u>2180</u>	<u>2193</u>
Msmeg-katG-coding	(2143)	GTGGCCGAGGTTTATGCCCAGTCCGACAACGGCGAACGGTTCGTCAACGAC					
9-06-2-4fkatG	(415)	GTGGCCGAGGTTTATGCCCAGTCCGACAACGGCGAACGGTTCGTCAACGAC					
9-06-4fCter-katG	(414)	GTGGCCGAGGTTTATGCCCAGTCCGACAACGGCGAACGGTTCGTCAACGAC					
							Section 44
	(2194)	<u>2194</u>	<u>2200</u>	<u>2210</u>	<u>2220</u>	<u>2230</u>	<u>2244</u>
Msmeg-katG-coding	(2194)	TTCGTCAAGGCCTGGGTCAAGGTCATGAACAACGACCGGTTTCGACCTCAAG					
9-06-2-4fkatG	(466)	TTCGTCAAGGCCTGGGTCAAGGTCATGAACAACGACCGGTTTCGACCTCAAG					
9-06-4fCter-katG	(465)	TTCGTCAAGGCCTGGGTCAAGGTCATGAACAACGACCGGTTTCGACCTCAAG					
							Section 45
	(2245)	<u>2245</u>	<u>2248</u>				
Msmeg-katG-coding	(2245)	TAA	-				
9-06-2-4fkatG	(517)	TAA	A				
9-06-4fCter-katG	(516)	TAA	A				