Date: Thursday 14th January, 2016 1^{st} line: Base numbering. Full stops for intronic \pm 5, 10, 15... 2^{nd} line: Base sequence. lower case Introns, upper case Exons 3^{rd} line: Amino acid sequence. Printed on FIRST base of codon 4^{th} line: Amino acid numbering. Numbered on 1^{st} and increments of 10 Exon 1 | Start: 5001 | End: 5314 | Length: 313 $\verb|tcttgcttcttttgggcgtcatccacattctgcgggaggccacaagagcagggccaacgt|\\$ tagaa aggccg caagggggggggggggggcctgagaagcgccaagcacctcctccgctctg $\verb|cgccagatcacctcagcagaggcacacaagcccggttccggcatctctgctcctattggc|\\$ tggatatttcgtattccccgagctcctaaaaacgaaccaataggaagagcggacagcgatl-189 **|**−179 l-169 l-159 1-149 l-139 GAAGAGCCCAGCAACCCACAGAGTTGAGAAATTTGACTGGCATTCAAGCTGTCCAATCA |**-**119 l-109 1-99 l-89 1-79 l-59 1-39 I-69 l-49 1-29 GCACGAGGCACTGAGGTGATTGGCTGAAGGCACTTCCGTTGAGCATCTAGACGTTTCCTT |-9 11 121 131 141 |11 GGCTCTTCTGGCGCCAAAATGTCGTTCGTGGCAGGGGTTATTCGGCGGCTGGACGAGACA M S F V A G V I R R L D E T 11 111 151 161 |71 181 191 1101 $\tt GTGGTGAACCGCATCGCGGCGGGGGAAGTTATCCAGCGGCCAGCTAATGCTATCAAAGAG$ V V N R I A A G E V I Q R P A N A I K E

Gene: MLH1 - Sequence: NG_007109.2 Transcript: NM_000249.3 - Protein: NP_000240.1

|31

121

cacttaatttaaaa

Exon 2 Start: 8270 End: 8360 Length: 90
121 131 141 151 161 171 TTTAGATGCAAAATCCACAAGTATTCAAGTGATTGTTAAAGAGGGGAGGCCTGAAGTTGAT L D A K S T S I Q V I V K E G G L K L I 141 151
181 191 201
gcattaagtgctgtggagaaaactaaagcag

Exc	on	3		St	ar	t:	: 1	260	06	I	En	d:	127	'04	I	Le	ng ⁻	th:	98	1			
ac	ccg	gg	ag	gc	gg	gag	ggt	tgo	cag	gte	gag	ctg	gaga	tct	ccg	сс	ac	tgo	act	tca	agc	ctgg	gtga
ca	gag	gca	ag	ac	tc	:te	gtc	tca	aaa	ıgg	gag	gti	Egca	ıgtg	gag	ct	gaį	gat	ctc	gco	cact	tgca	.cttc
ago	cct	gg	gt	ga	ca	ıga	agc	aag	gac	cto	ctg	tct	ccaa	ıaaa	aaa	aa	aaa	aaa	.caa	aaa	acca	aaga	aaag
aaa	aaa	ıaa	aa	ict	ct	to	cta	aga	agg	gat	ttt	ttt	ttt	cct	Egg	at	taa	aat	caa	gaa	aaat	tggg	aatt
caa	aag	gag	at	tt	gg	aa	aaa	atg	gag	gta	aac	atg	gatt	ati	ta	ct	ca	tct	ttt	tgg	gtai	tcta	.acag
AA.	AGA	211 AG D	ΓΑ	CT L				TG		G.		AA(GTT F	CAC	241 CTA T	СТ	AG'	ГАА	251 ACT L	'GC <i>I</i>	AGT(1 TGAG E
		271					281				29			13	31 301								•
GAT D		A		S S	TA I		TTC S	TA(rgg G		TTC0 R	G			gt	aag	cta	aag	gati	tcaa	gaaa
tg	tgt	aa	aa	ıta	tc	:ct	ccc	tgi	tga	ıtg	gac	ati	gto	tgt	cca	tt	tg [.]	tta	.gta	tgt	tati	ttct	caac
ata	aga	ıta	aa	ıta	ag	gt	tt	gg¹	tac	ct	ttt	tad	cttg	gtta	aaa	tg	ta	tgc	aaa	tct	gag	gcaa	actt
aat	tga	ıac	tt	ta	ac	:tt	tc	aaa	aga	ıct	tga	ıgaa	attg	gtt	cat	aa	ata	aaa	.cta	ttt	ta	cctg	caga
gao	cct	ct	ga	ıta	ta	itg	gtt	tc1	tte	gat	tgg	gaag	gtac	cca	agt	ac	ca	cct	atg	gaag	gtti	ttct	tgtc
aaa	aaa	at	ca	ıaa	te	Ste	gaa	tc1	tga	t o	cat	tad	ctta	ıgat	ct	aa							

Exon	4	St	art	: 1	605	2	End	1:	161	25	I L	eng	gtn	: /3	5			
gaata	.tta	tta	aac	atg	cct	ata	gtt	cta	cca	cct	caa	cad	caat	tgc	tta	itta	laca	catt
aatgt	ttt	ggt	gtg	ttt	tgg	act	ttt	taa [.]	tat	gta	ttt	tto	cact	tgt	tct	agt	aat	tatg
ctaca	gat	tga	tca	ttt	ctt	ttt	caa	cat	gtc	atc	aaa	ıgca	aagt	Egae	caa	lagt	gct	catc
gttgc	cac	ata	tta	ata	caa	aat	ggaa	agc	agc	agt	tca	ıgat	caad	cctt	tcc	ctt	tgg	tgag
gtgac	agt	ggg	tga	ccc	agc	agt	gagʻ	ttt [.]	ttc	ttt	cag	tct	tati	ttt	ttt	tct	tcc	ttag
GCTTT A L	311 'GGC	CAG		32 AAG		TGT V	30 GGC A	rca'	TGT V		341 TAT I		CAA(T	35 CGAA K	AAC	CAGC A	36 TGA: D	ΓGGA
	371						1:							•			. 12	
AAGTG K C			CAG; R	gta	tag	tgc	tga	ctt	ctt	tta	.ctc	ata	atai	tatt	cat	tct	gaa	atgt
atttt	ttg	cct	agg	tct	cag	agt	aat	cct	gtc	tca	.aca	ICC	agt	gtta	itct	ttt	ttg	gcag
agatc	ttg	agt	acg	ttt	tct	ttt	ctc	ctt:	att	gat	aaa	ittg	gata	aato	ctc	aag	gat	gatt
attag	gtg	ata	ctc	tta	ctt	cat	ggat	ttc	tta	aaa	gat	atg	gati	taa	icat	att	acaa	agtg
cctag	caa	ggt:	gtc	tgt [.]	tac	acg	tagg	gta [.]	ttt	taa	gta	ıaat	ggt	cago	tgc	tga	itgt:	aatt
tctgc	ccc.	· ttt;	gcc															

Exo	n 5	5	5	Sta	rt:	18	364	12		Enc	d:	187	714	:	Le	ng	th:	: 7	'2				
ctt	ggg	gag	ggo	ctg	agg	· ca	gga	aga	at	cgo	ctt	gaa	acc	tg	gta	Igg	cgg	gag	gt	tgt	agt	gag	ctg
aga	ttg	gtg	gco	cat	tgc	tc	tco	cag	cc	tgg	gga	aad	caa	ga	gca	aa	act	tcc	gt	ctc	aaa	aaa	aaa
aaa	aat	tco	caa	att	caa	.atį	gat	ta	tg	gaa	agt	agt	tgg	ag	aaa	ıta	aad	cag	ga	aaa	tga	taa	ata
att	aag	gat	taa	ata	tat	aa	tat	zgg	ct	ata	att	tta	aat	ct	att	gt	tga	ata	ıtg	att	ttc	tct	ttt
	cti	tgg	gga	att	agt	at	cta	atc	tc	tct	tac	tgg	gat	at	taa	itt	tgt	tta	ıta	ttt	tct	cat	tag
38 AGC A			ΓΑΟ	3 CTC S 1	AGA D	TG(G		۱AA						'CC'		AC P	421 CAT (141	rgt C	GC A	ГGG			AGG G
44 GAC		AG <i>I</i>		4 CAC T 1	Ggt	aaį	gaa	atg	gt	aca	atg	gga	aga	gt	aaa	ıtt,	gtt	tga	iag	ctt	tgt	ttg	tat
aaa	tat	tte	gga	aat	aaa	.aa:	ata	aaa	at	tgo	ctt	cta	aag	;tt	ttc	ag	ggt	taa	ita	ata	aaa	tga	att
tgc:	act	tag	gtt	aa	tgg	ag	gto	ccc	aa	gat	tat	cct	tct	aa	gca	ag	ata	aaa	itga	act	att	ggc	ttt
tgt	ggo	cat	Egg	gca	gcc	tg	cca	acg	gtc	ctt	tgt	ctt	ttt	tt	aag	gg	cta	agg	gag:	att	ctt	tat	tgg
gat	ggo	caa	aaa	ıgt	caa	tg	gca	agg	gt	agt	ttg	tca	att	ga	aag	gaa	gat	tta	lag	ctt	gac	ccc	aga
agg	cat	tgg	ggt	ta	g																		

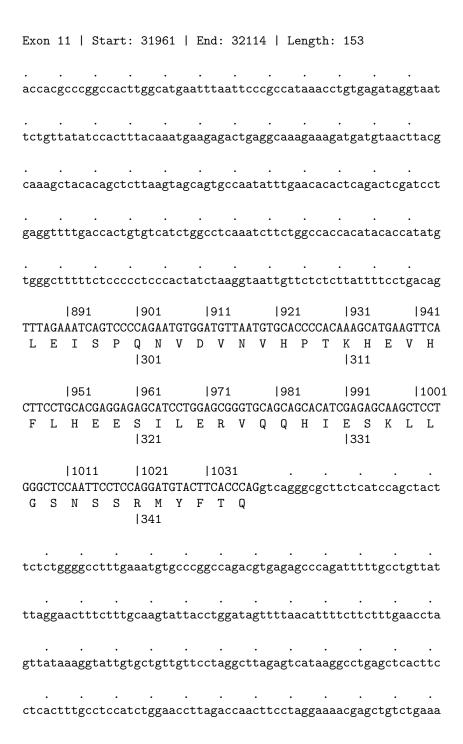
Exon 6 Start: 20465 End: 20556 Length: 91
461 471 481 491 501 511 GTGGAGGACCTTTTTTACAACATAGCCACGAGGAGAAAAGCTTTAAAAAAATCCAAGTGAA V E D L F Y N I A T R R K A L K N P S E 161 171
521 531 541 GAATATGGGAAAATTTTGGAAGTTGTTGGCAGgtacagtccaaaatctgggagtgggtct E Y G K I L E V V G R 181

Exon 7 Start: 23471 End: 23513 Length: 42
BE AWARE: Flanking intron is shared with the following exon
C
taaaaataaataaaaaagagatagtggcgtgatatccttgattctatcagcaacctataa
vadada vada vada da ga vag vag vag va vo v vaga v vo va vo da vo va vado va vad
${\tt aagtagagaggagtctgtgttttgattcagtcacctttagcatttttatttccatgaagtcaggaggaggaggaggaggaggaggaggaggaggaggagg$
$\verb ttctgctggtttatttttctgtgggtaaaatattaataggctgtatggagatatttttct \\$
ttatatgtacctttgtttagattactcaactccactaatttattt
0 0 0
$\tt ctgacatctagtgtgtttttggcaactcttttcttactcttttgtttttctttc$
- organia
551 561 571 581
GTATTCAGTACACAATGCAGGCATTAGTTTCTCAGTTAAAAAAgtaagttcttggtttat
Y S V H N A G I S F S V K K
191
$\tt gggggatggttttgttttatgaaaaagaaaaaaggggatttttaatagtttgctgg$

	Exon 8 Start: 23662 End: 23750 Length: 88 BE AWARE: Flanking intron is shared with the previous exon																			
gg	gagataaggttatgatgtttcagtctcagccatgagacaataaatccttgtgtcttctg																			
591 601 611 621 631 ctgtttgtttatcagCAAGGAGACAGTAGCTGATGTTAGGACACTACCCAATGCCTCA Q G E T V A D V R T L P N A S 201 211																				
		GGA	641 CAA N	TAT	TCG		CAT	CTT'	TGG.	AAA N		TGT			gta	tgt	cga	taa	ccta	
ta	itaa	aaa	aat	ctt	tta	cat	tta	· tta	tct	tgg	ttt	atc	att	cca	tca	cat	tat	ttt	ggaa	
cc	ttt	caa	ngat	att	atg	tgt	gtt	aag	agt	ttg	ctt	tag	tca	aat	aca	cag	gct	tgt	ttta	
te	gctt	cag	gatt	tgt	taa	tgg	agt	tct	tat	ttc	acg	taa	tca	aca	ctt	tct	agg	tgt	atgt	
aa	itct	cct	aga	ttc	tgt	ggc	gtg	aat	cat	gtg	ttc	ttt	caa	ggt	ctt	agt	ctt	gaa	aata	
t.t	:tat	:aøt	gta	øta	gaa	cta	ttt	tat	cct	сса	atø	ctc	ctt	ctt						

Exon 9 Start: 26083 End: 26195 Length: 112
681 691 701 711 721 731 AGAACTGATAGAAATTGATGTGAGGATAAAACCCTAGCCTTCAAAATGAATG
741 751 761 771 781 . ATCCAATGCAAACTACTCAGTGAAGAAGTGCATCTTCTTACTCTTCATCAACCgtaagt
ggttttattgggaagcatgtataatttttgtcctaagtctgtgctcagccctcccacatg
tgctcattgctggttgactgttggagtctggttcttacctctaagaggaagcccaggag
gggcataaagccagcacactgtcctcacctgatggtgtcagagtccttacgag

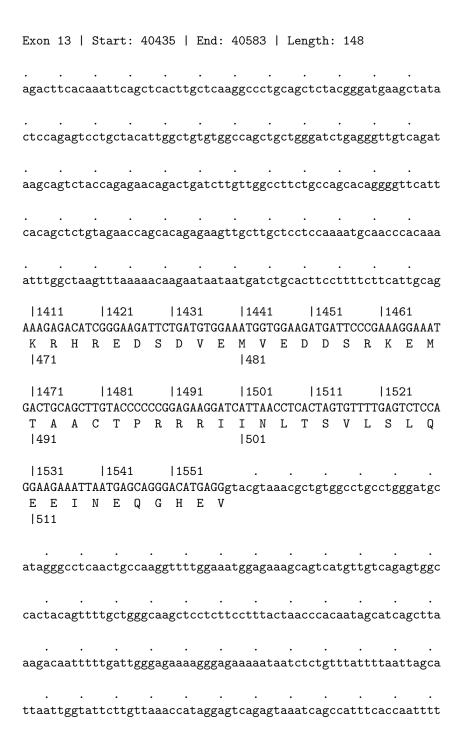
Exon 10	5	Star	t:	291	57	E	nd:	2	925)	Le	ngt	h:	93				
gaaagag	caca	agtt	agt	cca	.cat@	gag	cta	at	ggg	ggc	aaa	Iggg	aag	tga	ggag	ggg	aga	at
gtactgc	ctta	atca	tgt	ttt	ctat	tta	.ctt	gg	ctg	aag	taa	laac	agt	ccc	aago	ccg	ata	.gt
aagatag	tggg	gctg	gaa	agt	ggcg	gac	agg	gta	aag	gtg	cac	ctt	tct	tcc	tggg	gga	tgt	ga
 tgtgcat	atca	acta	cag	aaa	tgto	ctt	tcc	etg	agg [.]	tga	ttt	cat	gac	tttį	gtgi	tga	atg	ta
cacctgt	gac	ctca	ccc	ctc	agga	aca	.gtt	tt	gaa	ctg	gtt	gct	ttc	ttt	tta	ttg	ttt	ag
791 ATCGTCT R L			TCA		811 TCCT S I	ГTG		AA	821 AGC A				AGT	GTA:	84 GC/ A	AGC		TT L
851		861			1271				881						128	31		
TGCCCAA.		CACA	CAC		871 TTC(F I 291	CTG	TAC Y	CT		gta	atg	tag	cac	caaa	acto	cct	caa	.cc
aagactc	acaa	agga	aca	.gat	gtto	cta	tca	ıgg	ctc	tcc	tct	ttg	aaa	gaga	atga	agc	atg	ct
aatagta	caat	tcag	agt	gaa	tcc	cat	aca	ıcc	act	ggc	aaa	agg	atg	ttc	tgt	· ccc	ttc	tt
acaggta	caag	ggca	cag	ttt	tcct	ttc	att	ta	ttc:	act	aat	tta	gca	gaa	ccto	cac	taa	.ga
gcctcct	atat	tgcc	agg	ctc	tgcg	gtt	ago	aa	taa:	aag	gaa	tgc	cat	gcc	tca		cat	ca
ggaggtg	ctga	atag	ctt	gta	.ggcg	gga	gtg	gga	aac									



 ${\tt acagaatagggtgcctcttcaatgtgctcttcac}$

Ex	on	12	5	Start:	372	288	E	End:	37	658	I	Len	gth:	3.	70			
tt	ctg	gga	gca	 accccc	ccaa	agac	aaa	aat	atg	;aaa	att	tta	cact	ga	tac	ttc	cat	ttca
ag	ata	.att	tta	aagatt	ataa	agga	ttt	tgc	tta	att	ctt	:gaa	tttt	ata	acc	tgt	aaa	cctt
tt	ata	.ctt	caa	 aattto	ggg	caga	att	gct	tct	ata	aca	atg	ataa	itta	ata	cct	cat	acta
gc	ttc	ttt	cti	 tagtac	tgct	cca	ttt					atc		.ct	tct	tat	tct	gagt
ct	ctc	cac	tat	 tatata	ıtata	atat	ata	tat	ata	ttt	ttt	ttt	tttt	tt:	ttt	ttt	aat	acag
AC'	TTT	GCT	AC	105 CAGGAC	CTTGO	CTGG	CCC	CCTC	TGG	GGA	GAT	GGT'	TAAA	TC	CAC	AAC	AAG	TCTG
Т	L	L	Р	G I 351		G	Р	S	G	Е	М	V	K 36		Т	Т	S	L
	-	01 GTC		111 CTACTT														
		S			G									Q			R	
	11			117														
	TTC S			AACAGA Q K														CAGT S
ע	S	n	E	391		ע	А	Г	ь	Ų	Г	ь	140		Г	ь	۵	b
	12		cco	123 CCATTO	31 'TCA(
		Q			Т			K						G	R			Q
	12	81		1129	1	1	130)1		13	11		13	21		I	133	1
				AGATGO														
Q	D	E	Ε	M I 431		L	P	A	P	A	E	V	A 44		K	N	Q	S

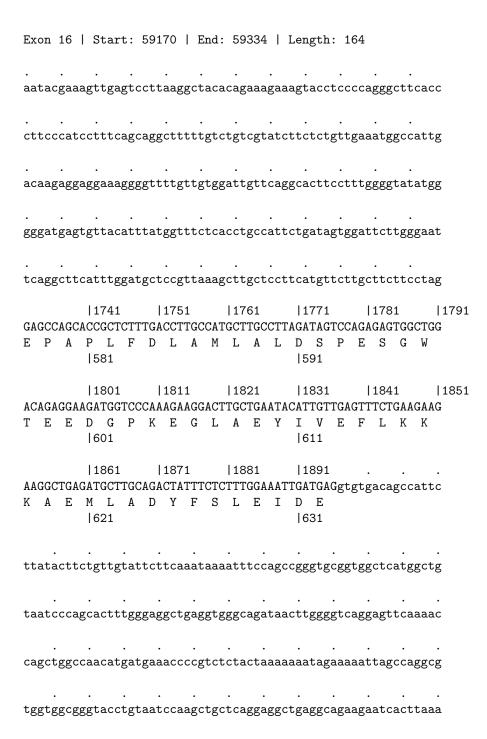
1341			136	31		13	71		1:	381		- 1	139	1	
TTGGAGGG	GGATA	CAAC	AAAG	GGGAC	CTTC	AGA	AAT	GTC	AGA	GAA	GAG.	AGG	ACC	TAC'	TTCC
L E G		T 451	K	G T	S	E	М	S	E	K 4		G	P	Т	S
1401 AGCAACCO S N P		atgg	cctt	ttggg	gaaa	agt	aca	gcc	tac	ctc	ctt	tat	tct	gta	ataa
 aactgcct													cct	gac	ttgc
cctctgga															ataa
cttgaaag	tcacc			tgtco									gtt	cca	agca
 tgagttaa	.aaaca	cttc		tgtag						gaa	taa	aca	cac	aca	ccag
	.gca														



 ${\tt cagtttgtttctgtcttagctaacagcag}$

Exon	14	ı	St	art	:	51	837	1	Enc	1: 5	5194	ŀ5	Le	ngt	h:	108	3			
tttc	tct	aat	gt	ctt	tt	aa	taa	agt	tga	acct	tcag	gaga	atct	cgt	tac	cctc	ctct	gag	ttc	ct
gctt	tgt	ctt	ag	att	tt	ga	tcc	ttg	gagt	gtt	tctt	taa	atct	ttt	ago	caat	tcc	ttg	ttg	ca
tgtta	aaa	aga	itt	agt	ta	ıta	ttt	tat	ttco	ctca	attt	gtg	gtto	gtt	tto	cacc	agg	gagg	ctc	aa
ttcaį	ggc	tto	ctt	tgo	:tt	ac	ttg	gtg	gtct	cta	agtt	ctg	ggtg	godt	ggt	cgct	:ttg	gtc	aat	ga
agtg	ggg	tte	ggt	agg	gat	tc	tat	tac	ctta	acct	tgtt	ttt	tgg	;ttt	tat	cttt	ttg	gttt	tgc	ag
1! TTCT(L 52	R	GG <i>I</i> E	AGA M			CA'		CCA	581 ACTO S		rcg1 V	.591 GGG G 31	GCTG	TGT				16 GTG W	GGC	CT L
TGGC	Q	GC <i>I</i> H	ATC	16 AAA T	CC			AT/	641 ACCT L	TTCT L	ΓCΑ <i>I</i> Ν	1651 T 551	CCAC			ГΤΑС	gta	ıaat	cag	gct
gagtį	gtg	tga	ac	aag	gca	ıga	gct	act	aca	aaca	aatg	ggto	ccag	gga	agca	acag	gca	ıcaa	aag	gct
aagga	aga	gca	agc	atg	gag	gt:	agt	tgg	ggag	ggg	caca	ıggo	cttt	gga	agto	caga	ıcac	atg	tgg	;tt
tcaaa	atc	caa	ıgt	tce	gac	ca	ttt	ccc	catt	ctat	tttg	gact	Egta	ıgad	caag	gtta	ıcat	tcc	taa	lac
tatg	tct	cag	gat	ttc	tc	at	ctg	taa	agtt	:gtg	ggta	itta	acta	ıgtt	caad	cate	gcag	ggg	ttt	tg
tttgi	ttt	gtt	tg	ttt	gt	tt	gtt	tgt	gag	gggt	taag	gaaa	ataa	ccc	caag	gaag	5			

Exon	15	5	St	art	::	53	919	9]	End	:	539	982	!	L	eng	gth	:	63					
tttt:	ata	agc:	acc	aga	· aca	ıσσ	tas	σσρ	rai	cag	ลล	cat	.øa	· øt.	σσ	cas	rca	aø	cca	aga	ct.	t.øø	t.c	t.t.
		-6*				-00	ت سر	000	,-				-6-	.0.	00	ح سرو	,	~6		-6-		~00		
agtg	ct	cta	acc	tgt	ct	gt	tag	gag	g	ctg	gc	cag	gtc	ag	ac	cco	ctg	gt	tga	aag	ac	gtt	gg	ga
atcc	cag	gct	ctt	tgg	gag	gg	gta	aag	gaį	gat	tt	tgt	tta	.ga	ct	gtt	aa	cc	aga	att	CC	aca	gc	ca
							•							٠.										
ggca	gaa	act	att	tct	gt	ct	cai	tcc	a.	tgt	ττ	cag	ggg	at	ta	CTI	ct	сс	ca	ttt	tg	tcc	ca	ac
tggt	tg1	tat	ctc	aag	gca	ıtg	aat	ttc	aį	gct	tt	tc	ctt	aa	.ag	tca	ıct	tc	at	ttt	ta	ttt	tc	ag
TGAA	167 GA <i>I</i> E		GTT F	CT <i>I</i> Y	ւ68 ԿСС գ 561	CAG)	AT <i>I</i>		C			TG <i>I</i> D				CA <i>I</i> N	ATT F		G	ГGТ V			GG	
ATCG		31. aag	ttt	aga	atc	:ct	tti	tca	ıc-	ttc	tg	aaa	att	tc	aa	ctg	gat	cg	tti	tct	ga	aaa	ta	gt
agct	cto	cca	cta	ata	atc	tt	at1	ttg	gta	agt	at	gti	taa	at	tt	tto	cta	aa	act	ttc	ta	agg	at	ag
ttgc	tgt	tat	tgt	atg	gat	tt	gca	ata	ıtı	gga	gg	tat	tct	at	aa	gaa	ıgt	tt	ta	tac	tt	ttt	ag	ca
aaat	agt	ca	ttt	ggt	ag	300	aad	ctt	a	aac	aa	ate	gtt	ta	tt	aat	tat	ag	aaį	gtt	aa [.]	taa	ta	tc
tactį	gat	cac	tcg	gco	cgg	gt	gcg	ggt	g	gct	ca	tgo	cct	gt	aa	tco	cca	cc	ac	ttt	gg	gag	gc	tg
aggc																								



 $\verb|cccaagaggtagaagttgcagtgagccgagattgcaccactgcac|$

Exc	on :	17	S.	tar	t:	60	168	-	End:	60	260		Len	gth	: 9	2		
BE	AW	ARE:	F	lan	kin	g	int	ron	is	sha	red	wi	th	the	fo	110	wing	gexon
gat	tta	tgcc	at	ttg	ctc	СС	att	tct	tctt	att	ctt	tca	ttt	ttg	ggg	ctc	tcca	atcttga
tgt	tgt	tctt	tg	gat	cgt	ga	aca	gat	ccaa	aaga	aaa	ggt	tgt	tct	gcc	gte	gctgt	ttgtca
																		•
gga	atg	aaaa	ac	tct	ttt	tt	aag	tgt	ttag	ggto	tgc	ссс	cag	gtgc	cca	gcc	caat	caagta
																		•
ace	gtg	gtca	CC	cag	agt	gg	cag	ata	ggag	gcac	aag	gcc	tgg	gaa	agc	act	ggag	gaaatgg
gat	ttt	gttt	aa	act	atg	ac	agc	att	attt	ctt	gtt	ссс	ttg	tcc	ttt	ttc	ctgo	caagcag
		1901			19				1921			193			19			1951
GA/																		GGAGGGA
E	G	N	L	Ι	G	L	P		L	Ι	D	N	Y	V	P	P	L	E G
									641									651
		1961			19				1981			•				•		•
		TATC	TT	CAT	TCT						Ggt	cag	tga	ıtca	agc	aga	atact	aagcat
L	P	Ι	F	Ι	L	R	L		T	Ε								
									661									
	•	•							•		•	•				•		•
tto	cgg	taca	tg	cat	gtg	tg	ctg	gag	ggaa	aagg	gca	aat	gac	cac	cct	ttg	gatct	ggaatg
	•	•				•			•			•				•		•
																		tcatt

Exon 18 Start: 60555 End: 60668 Length: 113 BE AWARE: Flanking intron is shared with the previous exon													
2031 2041 2051 2061 2071 2081 AGCCTCAGTAAAGAATGCGCTATGTTCTATTCCATCCGGAAGCAGTACATATCTGAGGAG													
S L S K E C A M F Y S I R K Q Y I S E E 681 691													
tcccactgttagctctgaagt													

Exc	on	19	l S	tar	t:	621	37	ı	End	: 62	2497	ı	Len	gth	: 3	860			
თგ	g g c	· toa	oot	o o o	aac	rato	oct	ta	agc	ccan	ເດລດ	ttt	თვთ	oct.	· ota	ເດລດ	cta	tgat	tcac
δαį	56	, 050	66.	666	عسه	54.08	500	· u	ugo	عمات	500	000	848	800	800	500	000	ugu	ocac
ac										gcaa									aaac
· aaa	aaa	atc	ctc	ttg	tgt	tca	.ggc	ct	gtg	ggat	ссс	ctg	gaga	ggc	· :tag	ccc	aca	.aga	tcca
· cti	tca	· ıaaa	gcc	cta	gat	aac	acc	aa	gtc	tttc	cag	acc	cag	tgc	aca	tcc	cat	cage	ccag
			0		0				J		J		J	Ü				J	O
ga	cac	.cag	ugu	aug	ع م م	ggga	igc	aa	.aca	ggge	iggc	uua	liga	cau	Cla	latg	ugu		ccag
																			2161
																			CTAT
S	Ł	V	Р	G	S	1	Р	N		w 711	K	W	1	٧	Ł	н	Τ	V	Y 721
																			1121
																			2221
																		TAT) I	CCTG L
N	А	ь	r.	۵	п	1	ь	Р		731	п	г	1	Ŀ	ע	G	11/	1	741
		1	223	1		122	41		1.	2251		ı	226	1		122	71		*11
CAG	GCT																		ATTT
Q	L	Α	N	L	P	D	L	Y		V	F	E	R	C	*				
									Ι.	751									
			 *2	1		*	31			*41			*5	1		*	61		* 71
AT(GCA	CTG	TGG	GAT	GTO	TTC	TTC	TT	TCT	CTGT	TTAT	CCG	ATA	CAA	AGT	GTT	GTA	TCA	AAGT
			*8	1		*	91			*1C)1		*1	11		*	121		*131
GT(GAT	ATA	CAA																CTTC
			*1	41		*	151			*16	31		*1	71		*	181		*191
TG	ATA	GTA	TTC	CTT	TAT	CACA	CAG	TG	GAT'	TGAT	TAT	AAA	TAA	ATA	GAT	GTG	TCT	TAA	CATA
Δ++	ttc	· tta	ttt	aat	t.t.t					atto									gt.ct

•	•	•	•	•	•		•	•	•	•	•
tgaa	catgto	cacage	gctctg	atggo	actga	ccate	ggagaa	agctt	gattt	gatca	ıtctgg
				•							
tgtc	tacaat	Jaacca	aagci	aatta	lllaag	gaaaa	iaaaci	lgaag	gaaaga	aaata	gicci
•	•	•	•	•	•	•	•	•	•	•	•
tact	tcatct	tataat	gaggt	ttttg	ttttt	ttgtt	ttgag	gacgga	gtctt	gcttt	gttgc
•	•	•	•	•	•	•	•	•	•	•	•
ccag	gccgga	agtgca	agtggc	gcgat	attgg	ctcac	tgcaa	cctcc	gctta	.ccggg	ttcaa
•											
g											

GBK Parser: Version: 1.3, Version Date: 11/02/2015 Reader: Version: 1.3, Version Date: 11/02/2015 Writer: Version: 1.3, Version Date: 11/02/2015 Control: Version: 1.3, Version Date: 11/02/2015