Transcript: $NM_001146289.1$ - Protein: $NP_077002.2$ Date: February 11, 2015 1^{st} line: Base numbering. Full stops for intronic +/-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: 5578 | Length: 577 $\verb|cggcgtcctccatgacagcgccttatcctccccactccctgggctgtgcgagtaggaaga|\\$ $\verb|cgactgag| caaggcctgaggctccggggctccggctgacgccgggattcgctga|$ $\tt gggccggtgggggatccgggctgactgaaaggaaaaggaggcggtgcaagcctcgtgggc$ 1-69 $\tt ATGCGCCGGCTTGGAAGGTGGGGCTTCGCCCGGGGGCCTTCGCCGGGGGTAG$ 1-49 1-39 l-29 l-19 1-9 GACTCCGGCCTTGGTGGCGGTTGCCTGCCGTTAGGTCTGAGGGAGCGATGGCGG M A V |1 |31 |11 21 |41 |51 TACGCGCGTTGAAGCTGCTGACCACACTGCTGGCTGTCGTGGCCGCTGCCTCCCAAGCCG R A L K L L T T L L A V V A A A S Q A E 121

Gene: LEPRE1 - Sequence: NG_008123.1

101

|111

1121

|91

171

181

|31 |41

I	131			14	1		1	51		-	161			17	1		1	81	
CCGC	AGC	CTA	CGC	GCG	CGG	GGA	CTG	GCC	CGG	GGT	'GGT	CCT	GAG	CAT	GGA	ACG	GGC	GCT	'GC
Α	Α	Y	Α	R	G	D	W	P	G	V	V	L	S	М	E	R	Α	L	R
							15	1									16	1	
	191			120				11			221			123			12		
GCTC	CCG	GGC.	AGC													TGC	CGC	CGA	CT
S	R	Α	Α	L	R	Α			L	R	C	R	T	Q	С	Α			F
							7	1									18	1	
	251			126				71			281			129			13		
TCCC																			
P	W	Ε	L	D	P	D	W		P	S	P	A	Q	Α	S	G			A
							19	1									1	01	
	311	~~.		32		~		31			341		~~~	35		~ ~	3		~
CCCT																			
L	R	D	L	S	F	F			L	L	R	R	A	A	С	L			С
							ΙI	11									1:	21	
	271			Lao	1		١a	01			101			41	1		1.4	0 1	
GCCT	371	aaa	aaa	138		CCA		91 CCT			401		aa v			ረ ጥጥ	4:		aa
	G							L		E				L L		F	R		.GC R
ь	G	Г	Г	А	А	п		31	ы	E	E	M	E	ь	E	Г	л 1		n
							ΙI	31									11.	±1	
1	431			44	1		IΔ	51		ı	461								
GGAG						GCA			СΤΔ				oca •	σac	cto	cct	ຫຫລ	ecc	aσ
S	P				L			A	Y			ug v	504	.gu	006		55ª	400	щБ
	•	•	••	•	_	٩		51	•	•	••								
gcgg	ccg	ggg	tcc	ttc	tgg	gga	gag	gag	tgt	tgc	agg	gga	cct	gag	gag	ctt	ggg	gga	tc
0 00	, ,	000			00.	00	0 0	0	Ü	J	00	00		0 0			000	J	
gggg	aag	tgt	ccg	cag	gga	ggg	gaa	agt	ggc	ctc	ctg	gct	ggg	gag	ctc	tcc	tcg	gag	СС
	_	_	_	_			_	_				_					_		
gggg	aga	gct	gct	ссс	tgg	cag	gag	acc	ttc	ctc	gcc	cag	ttc	gca	tgg	gca	gat	gct	aa
cccc	aaa	ggt	cca	gcc	tgg	ggt	tag	ggc	aca	ggc	caa	gca	aaa	ctc	atg	gcc	att	ttg	tt
ccct	ggg	aaa	tct	cct	gga	agg	aat	taa	agc	ggc	agt	t							

agcactccccatacaatatgacctttgttttaaaatggaacattgctacttcctgtaatctggggaacccctaaatctgacttgggaaagagctacaaatctgcccagggcactatgctc $\verb|ctaatctgtcgtgggtagttcctgcaataggtgtgcttcctgggggctggcaggggctggg|\\$ $\verb|cacgctgagtgagggctcagggaggcagggatttcctgtttatgtggactgctcatgtg|\\$ $\tt gacacaaacgttcagagattggatgtgagcattatccaccttctcatgcttcattcttag$ 471 481 |491 |501 |511 ATCAACAAGTTGGAGAAAGCTGTTGCTGCAGCACACCTTCTTCGTGGGCAATCCTGAG I N K L E K A V A A A H T F F V G N P E |161 1171 |531 |541 |551 |561 |571 |581 ${\tt CACATGGAAATGCAGCAGAACCTAGACTATTACCAAACCATGTCTGGAGTGAAGGAGGCC}$ H M E M Q Q N L D Y Y Q T M S G V K E A 181 |191 |601 |611 . ${\tt GACTTCAAGGATCTTGAGACTCAACCCCATATGgtgaaaaaaactttatccccttctttc}$ D F K D L E T Q P H M 201 $\verb|tttctttttttaaatttattttagagacagagtcttgctctgtcacccaggctggagt|\\$ $\tt gcagtggcttgatcatagctcactgtaacctcaaattcccggactcaagagaccctctag$

Exon 2 | Start: 9610 | End: 9762 | Length: 152

cattac	ctaagg	ttgttt	tct	aati	tac	atta	aca	gaa	gta	atg	aat	gtt	cat	tgt	ata	acat
tgtaga	naatgt	aggtaa	gta	taaa	aat	aaaa	aag	t								
Exon 3		art: 1 his se												ex	on	
			+ ~ ~ ~	·		c+ ~		++~			+ ~ ~	•	665			~~~~
acccag	ggaggi	ggaggt	ugu	agu	gag	cug	aga	uug	ugu	cac	ugc	agı	cca	gcc	rggi	gcaa
. cagagt	gagac	tctgtc	tca	aaaa	aaa	gaaa	aaa	aag	agc	taa	atg	ttt	tta	aat	ttc	caga
 gctaaa	ntattt	tgtaaa	.gac	cati	tta	caaa	aag	gcc	ttc	att	tta	tag	tgg	tac	cca	ggtc
	ttcca	tccata	acc1	tgag	gga	aca	gga	aat	tag	gac	ccc	tgt	gaa	ggt	ggc	tgag
				_												
ggcaag	ggagag	agggtt	cct	cct	ctg	tgg	cct	gca	ttt	gag	tgc	tcc	ttc	ttc	cca	gtag
621		631 ACTGGG	л ст		641 ACT			65		۸۵۸		61 ^C^	CCA		671 тст(accc
Q E		L G	V										E		V	
		211									12	21				
681		691						71				21			731	
		GGCGCT A L				CTT: F					GGA E		CCG R		CCT(L	
		231	4	_	•	-	•	••	•	_	12			••	_	Ū
741	L	751		17	761			77	1		7	81		1	791	
GAAGGG	GCCCTA	TGACTA	CGA'	TGG(CTA					GTA	CAA	CGC	TGA	CCT	CTT	CCAG
E G	Р Ү	D Y 251	D	G	Y	N	Y	L	Е	Y	N 2	A 61	D	L	F	Q
801	L															
		tgcgtg	cag	ttca	aga	gcca	aga	cct	tca	gcc	agg	cct	cct	ggg	act	ctaa
A I	T D															

ggtcctcaactgtaagcagaactgtgtcacggagcttgctt
gccctttgaa
Exon 4 Start: 13102 End: 13233 Length: 131
811
871

291			301		
	AACAgtaagg N I	gcctactttco		tctgctggct	aactaag
	ggtgggcagg	gattacagco		 tcaaggtgtt	tggctta
 gtagctat	 gggaggcaco	:atgccaagt@	 gatccctgggt	 agtttgttat	aaacaac
 taggaagc	 caataccago	 :aacccaaaa	agctgggggag	 ggagacttag	gacctca
 tgtccctt	ctataacttg	 gtaatctatti	tttgcttttga	 attaaagtta	atagcaa
 gggtatgc	caca				
Exon 5	Start: 14	163 End	: 14302 L	ength: 139	
Exon 5	Start: 14	4163 End	: 14302 L	ength: 139	
			: 14302 L gcatgcagaga		
 attatttg	 tgaatcttaa	.aagatgtggg		attctgattc	ttttctg
attatttg	 tgaatcttaa cagccctgag	naagatgtggg gacattgaco	gcatgcagaga	attctgattc aaaattaatc	ttttctg acacatt
ttgttagg	tgaatcttaa cagccctgag ttaactcctg	.aagatgtggg ggacattgaco gcccctgaaa		attctgattc aaaattaatc	ttttctg acacatt caggcac
tgtattact	tgaatcttaa cagccctgag ttaactcctg	aagatgtggg		attctgattc aaaattaatc tgttaagtag acactaagtg	. ttttctg . acacatt . caggcac . gtccctg

|321 |331

1100			10				021			103			10			-	051		
ACGA			GAA(CCA	AAA										AGA	AGA			CA
E	V	M	N	Q	N		A 41	Y	Y	A	A	M	L	G	Ε	E 3!	H 51	Т	R
1106			10			_													
GATC(CAT(CGG G	CCC(P	CCG R	TGA E	Ggt	gag	aga	ctt	cct	tct	gtt	atg	aca	gct	gcc	agct	gaa	ac
tcag	acc	tga	ggg	cgg	aag	gagt	ggg	gta	gca	gag	ggg	agt	agg	cgc	tgt	gcg	tgca	ıgg	gc
agggg	gcc	aga	tgt	cag	tgt	tgg	ggc	cag	atg	tga	gtt	cag	tca	ctc	ggc	ttg	ttat	tca	ag
2 mm2			2 W C :		~~~		mam	+ cr+ c		m e m	+ac		enn		tca			r++·	
agga	gaa	565	age	aca	655	.∝88	Sas	og o	565	გოგ	uac	aca	55ª	500	oca	a 0 0 0	ag c	5000	40
ctgg	· gcc	cag	aag	tct	att	ctc	tga	gtc	ccg	cag	aac	tgc	gcg	gtg	agc	ata	ttct	tt	cc
cctc	ttgį	gca	ccc	cta	.act	t													
Exon BE A													_			g e:	xon		
•			•			•										•	•		
gaat	cat	cag	atta	atc	tgt	cct	aga	gac ⁻	taa	tgg	ggg	ttg	gga	tgg	ggg	agg	agca	ıggı	gc
tttt	tcc	ctt	aagg	gaa	.agc	ctg	gtt	att	cca	gta	.cct	cag	agg	tac	tgt	tgc	ttgt	gc	ca
ggca	gagį	gac	acaį	gaa	att.	aga	.ctt	ttg	tct	caa	act	ggg	gaa	cag	aca	gaga	agca	ittį	gg
. ggcag													•						

tcccagaggttaaaagacagggctgagttctgggggatttgtttg
1081 1091 1101 1111 1121 1131 AGTGCCAAGGAGTACCGACAGCGAAGCCTACTGGAAAAAGAACTGCTTTTCTTCGCTTAT S A K E Y R Q R S L L E K E L L F F A Y 361 371
1141 1151 1161
agacacctggaagattaagtagatcatctt
Exon 7 Start: 16868 End: 16920 Length: 52 BE AWARE: This section overlaps with the following exon

agacacctggaagattaagtagatcatcttacctttttcatttcttcctgacctacttag													
1171 GATTCA	-	1181 TCCA(1191 AGTGAT	TCC	1201 CAAGAC		12 GCAAG			1221 GAAgtg	agga	
D S 391	W T	P I	ЕЕ	V I	P	K R 401	L	Q E	K	Q	K		
ccttga	Iagaaa	ctgca	atggtt	tggatc	agto	ctgate	gaago	cactt	gagg	ctto	cctgag	ccca	
ggcaga	itgtga	actc	ctggca	aagggg	tggg	gcaggt	cca	gtttg	ggaa	gtcg	ggggtg	gagc	
ccaggg	gctggc	cctg	gaatgo	cagtcc	tcag	gagcgg	gctg1	tgctc	atag	gtca	agaacg	ggaa	
acagco	gtacg	catci	tcccag	ggagat	tggg	gaacct	tatg	gaagg	aaat	cgag	gaccct	tgtg	
gaagag	gaagac	caagg	gagtca	actgga	tgtg	gagcag	gactg	gaccc	ggga	aggt	Ega		
Exon 8	3 St	art:	17095	5 En	d: 1	17216	Le	ength	: 12	1			
atttta	itgcat	tgaga	acacct	.ggaag	atta	nagtag	gatca	atctt	acct	tttt	cattt	cttc	
ctgacc	tactt	aggat	ttcat@	ggactc	caga	aagaag	gtgat	tccc	aaga	gatt	Egcaag	agaa	
 acagaa	ıgtgag	gacct	ttgaag	gaaact	gcat	Eggttg	ggato	cagtc	tgat	gaag	gcactt	gagg	
cttcct	gagcc	caggo	cagate		tcct	ggcaa	ngggg					ggaa	
gtcggg												atag	
	123	1	124	11	12	251	1:	1261		127	71	1281	

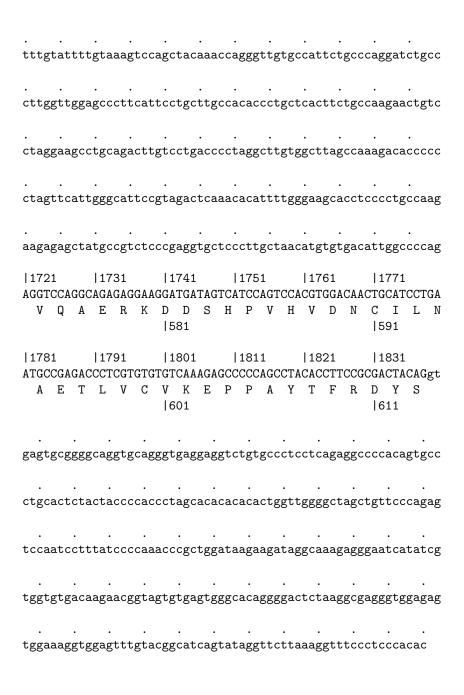
GTC	AGA/	ACGO	GGA <i>I</i>	AAC <i>I</i>	AGC	CGT	ACGO	CATO	CTC	CCAG	GAG	ATT	'GGG	AAC	CTT	ATO	AAG	GAA	AT
S	Е	R 41	_	Т	A	V	R	Ι	S	Q	Е	I 42		N	L	M	K	E	Ι
CGA		CCTT		GGA <i>I</i>	AGAC	JAA(GACC	CAAC	GGA(CTC	GAT	'GTG	AGC	CAGA	CTC		CGG	1341 GA
E	Т	L 43	•	Е	Е	K	T	K	Е	S	L	D 44		S	R	L	Т	R	E
AGg† G	tgag	gagg	gaca	agaa	nata	aggg	ggca	itgt	ctg	ggct	gtt	gtc	agg	gag	gcca	uggo	agg	tca	cc
cca	cati	ttgo	ccag	ggca	agcg	gcto	ccad	ccc	cago	catt	gca	ıgag	ctc	acc	atg	gago	cag	cca	.cc
ctta	aggg	gtgo	caag	gtto	cagt	gga	acat	cct	tco	ctaa	icto	acc	ago	ggg	gact	ttc	agc	tgg	aa
agaį	gca	ctga	agaa	atca	agco	ctti	tggo	ctca	agaa	aato	aga	ictc	cag	gat	gta	ıgtg	gtg	cac	ac
ccg	taat	tcc	cago	ctac	cttg	ggca	aggo	Etga	aggo	cagg	agg	gato	gct	tga	igcc	cag	ggag	ttt	ga
at																			
Exoi BE													_			ıg e	exon		
gtt	ctto	ccto	cgt1	tccc	gag	gcto	cate	gttt	tag		tgt	gtt	tct	gat	gtt	tcc			gt
gtgʻ																			tc
ttt																			ga

$\verb ttttgctggtgaaaaggaaacagctggaatttctatttgtgacgaggaggcaatatccaa \\$												
**Sagagaeooooggoodgooggoodgaeoooggagoooggooog												
1351 1361 1371 1381 1391 1401 GTGGCCCCCTGCTGTATGAAGGCATCAGTCTCACCATGAACTCCAAACTCCTGAATGGTT G P L L Y E G I S L T M N S K L L N G S 451 461												
1411												
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$												
tggagaaa												
Exon 10 Start: 19716 End: 19811 Length: 95												

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gag	gac	tga	cca	atg	taa	ggg	aag	ccca	agt	gact	tgca	acc	ttcc	ccc	aag	gg	tcca	agca	tcc
cc	cca	cca	agt	acc	cct	tgg	gtg	gtag	rcct	ttce	rcct	ttc	ctct	tcc	tgg	rcc	acas	rtte	acc
			0-	0		-00	0-0	5 6	5		5				-00	5 ·		5 6	,
•		•	. •		•		•	•		•		•	•		•		•		
ac	ctc	ttc	tca	agc	cct	cag	ctg	CCC1	tgg	ctaa	aca	tca	cctt	gtg	ttt	tg	ggc	cttg	gtag
			148	1		14	91		15	501			1511	_		15:	21		1531
GT(GC	AGC	AAC	CTC	AGG	AGA	TGG	CTAC	CCG	GGG.	ГСА	GAC	CTCC	CCCA	.CAT	'AC	TCC	CAAT	GAA
V	Α	Α	Т	S	G	D	G	Y	R.	G	Ŋ	Т	S	Р	Н	Т	Р	N	E
-			_	-	-	_	-	_	150		`	_	-	_		_	_		_ 511
									100	71									1011
			. – .																
			154			15				561			•		•		•	•	
AA(TT	CTA	TGG	TGT	CAC	TGT	CTT	CAA	AGC	CCT	CAA	Ggt	aaga	itca	aca	act	ggg	catt	cta
K	F	Y	G	V	T	V	F	K	Α	L	K								
									152	21									
•		· 			•		•	•		•		•			•			•	
gag	gtg	тgg	aga	aag	ggg	rgg	gga	aggg	ggg	aago	CTC	agg	cttt	gag	gaa	iga	gttg	gggg	ctg
•								•											
gt	ggc	agg	aaa	ggt	gaa	gag	ggt	cca	cctg	gcca	aaca	att	cttg	gttg	cca	agg	aago	cgag	gat
٠.	r++	2+~	++~	c &+		·~++	•	+++1	+ ~~ ~		-+ «+	++ >			· + ~+		· tcar		
ga	366	aug	uug	cgi	gag	guu	cac	666	ugad	1666	Legi	lla	gaco	gag	ugi	aa	lCac	aaac	aaa
•			•		•		•	•		•			•		•		•	•	
gt	gag	cag	gat	aag	act	gtt	cgc	caaa	agct	tate	gaga	aat	gctt	tct	tta	aga	aagg	gctg	att
c+:	ດຕລ	നനന	ct a	+ & C	++c	tgt	ແດລ	ora 1	taca		rt or	-							
C 0 0	ıga	888	Cug	ugc	000	ugu	gca	ggai	ugu	ıca	S C S	·							
Exc	on	11	I S	tar	t:	217	49	Er	nd:	218	399		Leng	th:	15	50			
•													•					•	
ac	ggg	gtg	gct	ggc	cgg	gct	gag	ggg	ctc	ctca	acti	tcc	cagt	agg	ggo	gg	ccgg	ggca	ıgag
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1571 1581 1591 1601 1611 1621 CTGGGGCAAGAAGGCAAAGTTCCTCTGCAGAGTGCCCACCTGTACTACAACGTGACGGAG L G Q E G K V P L Q S A H L Y Y N V T E 531 541
1631
1691 1701 1711
ttaatggggaagctggtgctaaaccattcat

Exon 12 | Start: 23768 | End: 23885 | Length: 117 BE AWARE: This section overlaps with the following exon



Exon 13 | Start: 24287 | End: 24362 | Length: 75
BE AWARE: This section overlaps with the following exon

tgg	ggc	tago	ctg	ttc	cca	ıgaį	gtc	caa	tc	ctt	ta	tco	ccc	aaa	ıcc	cg	ctį	gga	ita	aga	aaga	ata
ggc	aaa	gagg	gga	ato	ata	tcį	gtg	gtg	gtga	aca	ag	aac	cgg	tag	gtg	tg	ag	tgg	gc	aca	aggg	gga
ctc	taa	ggcg	gag	ggt	gga	ıgaį	gtg	gaa	agg	gtg	gga	gtt	tg	tac	gg	ca	tc	agt	at	agį	gtt	ctt
aaa	ggt	ttco	cct	ccc	caca	acaa	aag	cca	acco	cto	ct	gct	cgc	tgg	ţtt	ga	gaį	gca	LCC	:tgį	gagg	gtg
aag	gct	cage	ggg	aaa	uggg	gagg	gca	ggg	gaag	ggg	gcc	atg	gat	gag	gat	gt	ct	ctg	300	tti	tcc	cag
	184 CAT I	CCTT	TTA Y	CCT		ATG(G	GGG D	186 ACT F 621	TC(GAT D			JAA.		ТТ			ΓCA Τ			L	GGA D
	190 CAA K	1 GACO T	CGT V	19 GAC T		gaį	gtg	ctc	cct	ttg	gtc	ctt	:gt	ccc	tg	gg	aga	ata	laa	ıaaį	gtc	tgt
ttt	cta	cago	Etg	ate	gtto	cca	aaa	gtg	gcag	gtg	gga	caa	aaa	ata	ac	ca	ac	tgg	gc	:tt	ccc	agt
ggg	cgg	taco	cct	tcc	ccc	cat	cca	gag	ggg	gct	tt	gag	gac	gtg	gtc	ca	tc	act		tc	taa	cca
gtc	acc	cttt	ct	ctt	tag	gtt	ctg	gto	tta	agg	gga	ago	cca	tac	tg	aa	gaį	gct	gc	cc	tcgg	gtc
gtg	agc	ccta	nat	gag	gccc	cat	gtc	tct	tc	tga	iga	gtg	gga	tta	ıca	gt	ct	ttg	jtc	ctį	gtg	caa
ccc	ccc	tcco	Ett	tct	;g																	

Exon 14 | Start: 24673 | End: 24813 | Length: 140 BE AWARE: This section overlaps with the following exon

ccttgt	ccttgt	tccctg	ggagata	aaaaagt	 tctgttt	tctacag	 ctgatgttco	ccaaagtg
cagtg	gacaaaa	aataac	caactg	ggcttco	ccagtgg	ggcggtac	 ccttccccc	atccagag
gggct1	tgagad	cgtgtc	catcac	tcctcta	 aaccagt		 tctctttagt	ttctggtc
ttaggg	gaagcca	atactg	aagagc	tgccct	cggtcgt		 aatgagccca	atgtctct
tctgag	gagtgga	attaca	gtcttt	gtcctgt	 tgcaaco	cccctcc	 ctttctgtc	ccccttag
GCAGAO A E	1921 GGTGCAC V Q 641	GCCTCA	1931 GTGTGGA C G	194 AAGAGCO R A		1951 ATTCTCTT F S S 651	1961 CAGGCACTGA G T E	1971 AAAACCCA N P
CATGGA H G	1981 AGTGAAC V K 661	GGCTGT		200 GGGGCA0 G Q	GCGCTGT		2021 CCCTGTGGTT L W F	2031 CACCCTG T L
	2041		2051 CCCCat		٠			•
D P	R H 681	S E	R.	gagagc	agctcga	agcgggtg	agagcagctg	ggtgctgt
•	R H 681	S E	R .				agagcagctg ccaaatccca	
ggtga	R H 681	S E . cccaga	R gcgccc ¹	ttggtt1	 tgccttt	cctcttcc		attgccag
ggtgad	R H 681	S E .cccaga .cgaaag	R . gcgccc . gagcac	ttggtt1 ttgggad	 tgccttt caccago	 cctcttcc ctccaacg	ccaaatccca	attgccag tatggtca

${\tt cagagagtaggacctgctggg}$

Exo	n	15	St	tart	5: 2	:523	33	E	nd:	25	750)	Len	gth	: 5	17			
									44				•	- 4.4					
cac	tt	ggga	acao	ccag	gctc	caa	acg	ссс	tgt	cat	tat	ggt	cac	att	gcc	ttg	tcc	tcc	ctgg
		gctg																	gagtt
ctt	gg	gttc	cct	ccti	ggg								tcc		gag	tag	gac	ctg	ctgg
ແລລ	σσ	ragat	toac	rcct	•		ratt	taa	സമ		++		ot c	ccc	taa	ແລລ	ota	aca	ıgctg
gaa	-65	gaga	υξαξ	5001	' 888	,gcc	Jau	uaa	884	acc			, 500		°88	gaa	gua	.gcc	ige og
aga		itago																	gcag
CAC	'A C	206															СЛТ		2111 CCTC
		V				D										E	M		L
		212 GGA(E	GCAC	GCC	CCTG	GAT D	rgc(CCA	GCA	GGG	CCC	CCC	CGA	ACC'	TGC	ACA Q		GTC	2171 TCTC L
		218 CAGT S	TGA <i>I</i>	ATC	21 GAAG K 73	CCC P	CAA	GGA	TGA	GCT	ATG		211 GCG		l Agg			GGA	+21 TGGG
		+;	31		+	-41			+5	1		+	-61		1	+71			+81
TGA	.CT	'AGA	CCCA	ATG(GAGA	.GG <i>I</i>	AAC	ГСТ	TCT	GCA	.CTC	TGA	GCT	GGC	CAG	CCC	CTC	GGG	GCTG
CAG	AG	+9 CAG		GCCI					•			•		CTG					+141 CTACA
TGG	TG		151 CTG(+1 TGA					CCC					+201 TGAG

	+211		1+221		1+231		+241		1+251		1+261
GGCTC	AGGACA	CAGGC	CCAGC	CACC	CCCAGG	GGCC'	TCCACA	GGCC	GCTGC <i>I</i>	ATGAC	AGCGA
	+271		+281		+291		+301		+311	L	+321
TACAG	TACTTA	AGTGT	CTGTG	TAGA	CAACCA	AAGA.	TAAAT	GATT	CATGGT	TTTTT	TTTAC
					+351						
TTGGT	TTGTTC	AGACA	ATGGA	AATT'	TGCCCA	TTCT	GTCcca	ıgagg	tctcad	cttga	taaaa
		•									•
attgc	tctagg	cagga	ıcccag	tggc	aggtgt	ggga	cgagaa	igtcc	tggcti	ggca	cctgg
ctcaa	ccactt	gctgt	gcagc	caca	ggccag	acac	ttaacc	ttca	gcacci	cggg	grigi
Catco	gtataa	rgggg	alcal	aguc		ctgc	lcacci	, cc cg	RRRCas	getgt	augge
	tacaat	atcmm			cacttt	tata	aacaat		ctctaa	ratas	
ccaga	tgcaat	aucgg	augug	acaa	cacttt	ugua	aacggu	aaag	Cucug	gguga	auggu
	•			•							
tggga	ttattg	ttaat	cctct	tctg	gcaggg	agcg	gcg				

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