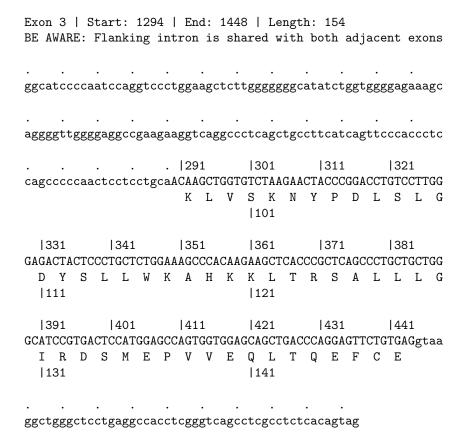
Gene: CYP21A2 - Sequence: ENST00000448314 Transcript: NM_000500.7 - Protein: ENSP00000398594 Date: February 26, 2015

 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: 501 | End: 824 | Length: 323 BE AWARE: Flanking intron is shared with the following exon $\verb|ttgttcttcaggcgattcaggaaggcctattaggcagggactgccattttctctctgaga|\\$ ${\tt caaacatcatgccagtaaactggcccacggtgggtggcagaggggagagggcccaggtgg}$ $\tt gggcggacactattgcctgcacagttgatgtggaaccagaaagctgactctggatgcagg$ aaaaaggtcagggttgcatttcccttccttgcttcttgatgggtgatcaatttttttgaa. $\verb|atacggacgtcccaaggccaatgagactggtgtcattccagaaaagggccactctgtggg|$ |-99 |-119 |-109 |-89 |-79 GGGTCGGTGGGAGGGTACCTGAAGGTGGGGTCAAGGGAGGCCCCAAAACAGTCTACACAG |-49 |-39 1-29 |-19 ${\tt CAGGAGGGATGGCTGGGGCTCTTGAGCTATAAGTGGCACCTCAGGGCCCTGACGGCGTC}$ 111 21 131 141 M L L L G L L L L P L L A G A R L L W 111 |61 |71 |81 |91 101 |111 GGAACTGGTGGAAGCTCCGGAGCCTCCACCTCCCGCCTCTTGCCCCGGGCTTCTTGCACT N W W K L R S L H L P P L A P G F L H L |21 31 1131 1141 |151 1161 1171 TGCTGCAGCCCGACCTCCCAATCTATCTGCTTGGCCTGACTCAGAAATTCGGGCCCATCT

. .

 ${\tt agggggcggagg}$

Exon 2 Start: 922 End: 1011 Length: 89 BE AWARE: Flanking intron is shared with both adjacent exons													
V V V L 71													
221 231 241 251 261 272 TGAACTCCAAGAGGACCATTGAGGAAGCCATGGTCAAAAAGTGGGCAGACTTTGCTGGCA													
N S K R T I E E A M V K K W A D F A G R 91													
atcctcccacctcagcctcaagtgtgagccacctttgg													



Exon 4 | Start: 1556 | End: 1657 | Length: 101 BE AWARE: Flanking intron is shared with both adjacent exons $\verb|ccccgcctgcccgctgcacagcggcctgctgaactcacactgtttctccacaCGCATG|$ 451 |461 |471 481 |491 |501 RAQPGTPVAIEEEFSLLTCS |151 |161 1541 |511 |521 |531 ${\tt ATCATCTGTTACCTCACCTTCGGAGACAAGATCAAGgttgcctcacagcccctcaggccca}$ $\hbox{\tt I} \quad \hbox{\tt I} \quad \hbox{\tt C} \quad \hbox{\tt Y} \quad \hbox{\tt L} \quad \hbox{\tt T} \quad \hbox{\tt F} \quad \hbox{\tt G} \quad \hbox{\tt D} \quad \hbox{\tt K} \quad \hbox{\tt I} \quad \hbox{\tt K}$ 171 |181 ccccagcccctccctga

Exon 6 Start: 1949 End: 2035 Length: 86 BE AWARE: Flanking intron is shared with both adjacent exons														
tggagggagaggctc	cttcccacagctgcat	tctcatgcttcct		651 CTTCCCCA F P N										
ATCCAGGTCTCCGGAG	GGCTGAAGCAGGCCAT			711 GGAGATGC E M Q										
721 73: AGCTGAGGCAGCACA L R Q H K 241	AGgtggggactgtacg	 tggacggcctccc	 ctcggccc	acagccag										
tgatgctaccggcct	cagcattgctatgagg	 cgggttcttt												

												gth: 5		dja	.cen	t e	xor	ıs
tg	cat	acc	ccagt	state	gggc	ctg	ttg	cca	.ctc	tgt	act	cctct		agg	cca	gcc	gct	c
O	tgcataccccagttatgggcctgttgccactctgtactcctctccccaggccagccgctc																	
									74	1		751		- 1	761			771
${\tt agcccgctcctttcaccctctgcaGAGAGCCTCGTGGCAGGCCAGTGGAGGGACATGATG}$																		
							E	S	L	V	A	G Q 251	W	R	D	M	M	
			781		ı	791			180	1		811		I	821			831
GA	CTA	CAT	GCTCC	CAAGO	GGT	GGC	GCA	.GCC	GAG	CAT	'GGA	AGAGG	GCTC	TGG	ACA	GCT	CCI	'G
D	Y	M	L C	G	V	Α	Q	P	S	M	Ε	E G	S	G	Q	L	L	
			261									271						
			841		I	851			186	1		871		I	881			891
GA	AGG	GCA	CGTGC	CACAT	rggc	TGC	AGT	'GGA	CCT	CCT	GAT	CGGTG	GCAC	TGA	GAC	CAC	AGC	:A
E	G	Н	V H 281		A	A	V	D	L	L	Ι	G G 291	Т	E	T	T	Α	
			901		I	911			192	21		931						
AA	CAC	CCT	CTCCT	GGGG	CCGT	GGT	TTT	TTT	'GCT	TCA	.CCA	CCCTG	AGgt	gcg	tcc	tgg	gga	ıC
N	T	L	S W		V	V	F	L	L	Н	Н	P E 311						
aa	gca	aaa	ggctc	ctto	cca	gca	acc	tgg	cca	ggg	cgg	tgggc	acco	tca	.ctc	agc	tct	g
ag	cac	tgt	gcggc	tggg	ggct	gtg												

	8																	
BE A	WARE:	Fla	anki	.ng	int	ron	ıis	sh	are.	d w	ith	bo	th	adj	ace	nt	exo	ns
cttg	cctca	ccgg	gcac	tca	ıggo	tca	ctg	ggt	tgc	tga	ggg	agc	ggc	tgg	agg	cte	ggc	ag
	•												- 1	941			195	1
$\verb ctgtgggctgctggggcaggactccaccgatcattccccaATTCAGCAGCGACTGCAGGCAG$																		
												Ι	Q	Q	R	L	Q	Ε
	1001																	
	961											. ~ ~ ~						
	GCTAG																	
Е	L D		Ε	L	G	Р	G	A	S			R	V	Р	Y	K	D	R
	321									3	31							
	1102	1	1	103	1		110	41		11	051		ı	106	1		110	71
GTGC	ACGGC																	
A												L						
	341									3								
	108	31	- 1	109	1		11	01		1	111							
TGCC	CTTAG	CCT	rgcc	CCA	CCG	CAC	CAC	ACG	GCC	CAG	CAG	gtg	act	ссс	gag	ggt	tgg	gg
	L A						T		P									
	361									3	71							
	•																	
atga	gtgag	gaaa	agco	cga	ıg													

	9 S [.] IARE: 1							_			viou	ıs	exo	n
cccag	ggagg	tcctg	gcca	gcctc	taad	ctccag	gccc	ccttca				CTA	CGA	
	114 GAGGGC E G (ACAGT T V	CATC		GAAC		AAGG	1171 CGCCCA A H 391	CCT	GGA.		GAC	GGT	1191 CTG W
GGAGA E R	120 GGCCA0 2 P 40	CATGA H E	GTTC	211 TGGCC W P		atgtg	ggggg	ggccgg	ggg	cct ₈	gcc	gtg	aaa	atg
tggtg	· gaggc	tggtc	cccg	ctgcc	gctg	gaacgo	cctc	ccacc	cac	ctg1	tcca	acc	cgc	ccg
cagat	cgctt	cctgg	gagcc	aggca	lagaa	actcca	agago	ctctgg	cct	tcgį	gctg	gcg	gtg	ccc
gcgtg	gtgcct	gggcg	gagcc	gctgg	Cgcg	gcctgg	gagct	tcttcg	tgg	tgc1	tga	ccc	gac	tgc
tgcag	gcctt	cacgo	tgct	gccct	ccgg	ggacg	gccct	tgccct	ccci	tgca	agc	ccc [.]	tgc	ccc
actgo	agtgt	catco	:tcaa	gatgo	ag									

BE AWARE: Flanking intron is shared with the previous exon													
	1												
R F L E 411													
1241 1251 1261 1271 1281 129 AGCCAGGCAAGAACTCCAGAGCTCTGGCCTTCGGCTGCGGTGCCCGCGTGTGCCTGGGCG	1												
P G K N S R A L A F G C G A R V C L G E 421													
1301 1311 1321 1331 1341 1351													
AGCCGCTGGCGCCCTGGAGCTCTTCGTGGTGCTGACCCGACTGCTGCAGGCCTTCACGC													
PLARLELFVVLTRLLQAFTL 441 451													
1361 1371 1381 1391 1401 141 TGCTGCCCTCCGGGGACGCCCTGCCCTCCCTGCAGCCCCTGCCCCACTGCAGTGTCATCC	1												
L P S G D A L P S L Q P L P H C S V I L													
461 471													
1421 1431 1441 1451 1461 147 TCAAGATGCAGCCTTTCCAAGTGCGGCTGCAGCCCCGGGGGATGGGGGCCCACAGCCCAG	1												
K M Q P F Q V R L Q P R G M G A H S P G 481 1491													
481 491													
*51 *61 *71 *81 *91 *101 GCTCCCGTACGAACCCCTCCCCCCCCTGTAAACACAGTGCTGCGAGATCGCTGGCAG													
*111 *121 *131 *141 *151 *161													
AGAAGGCTTCCTCCAGCGGCTGGTGGAAGGACCCTGGCTCTTCTCTCGGGGCGACCC													
*171 *181 *191 *201 *211 *221 CTCAGTGCTCGGCAGTCATACTGGGGTGCGAGAGGGTGGGCAGCAGCTCAGCCTCCCCC													
*231 *241 *251 *261 *271 *281 CGCTGGGGGAGCGAAAGTTTCTTGGTCTCAGCTTCATTTCCGTGAAGGGCACCGAGAACTC													
*291 *301 *311 *321 *331 *341 GAAGCCCTTCCAGTGGTACCAGCTCACTCCCTGGGAAAGGGGTTGTCAAGAGAGAG													

;	×351	*3	361	*3	371	*3	381	*3	391	*4	101
AGCCG	GATGTCC	CATC	rgctctt	CCCC	TTCCC	CTTA	AGGAGG	TAGC	CCCAG	CACTO	CAAC
•	×411	•	121 77777777		131	-	141	*4		*4	
CAACC	rcccgc	AGAGO	5100011	CCTC	ACCCI	CCGC.	IGCAGA	IGGAI.	IGAGGC	IIAAI	101
•	×471	*4 TCCAC		*4]*					
GAGCI	GCCCTT	TOCAC	JCCAAIA	AAIC	JAACIC	CAGO	ICCCLC	rgcga	aggerg	gcarg	gall
attaca	atttcac		· · ·	at co	· cttac	· ctati			ractas	·	
guucu	iccac	ccago	regerea	gucc	.cccgc	cogo	Jacact	8 688	ggcuga	aacc	,agg
				t							
caggc	cgagccc	cagco	Jacccca	igere	rgago	cgcci	LCCCCa	CCCC	LCacci	garge	gucc
actgt	gctcccg	tagag	 gcccgtt	gagg	gttggc	gtagt	tggcag	· ttcc1	tgtacc	accag	· gcc
	, .		3 0	0 00		0 0	00 0	,	J		
cctcg	gtaggag	acago	cgcagga	gate	gagcaa	gctgt	ttgggg	· tccc	gatcac	gggca	ıgag
								·			
· aagaca	· actøccø	· ctgts	· · · · · · · · · · · · · · · · · · ·	cate	· rgagt.c	cccts	• rø				

GBK Parser: Version: 1.1, Version Date: 11/02/2015

Reader: Version: 1, Version Date: 11/02/2015 Writer: Version: 1, Version Date: 11/02/2015 Control: Version: 1, Version Date: 11/02/2015