



UNC93B1 (NM\_030930.4) - cDNA + Protein - 2026-06-24

GGGCGGTCGC AGGGACTCCG GGGCGACCGC CGCGAGTCCG CAGTAGTTCG -5  
GGCCATGGAG GCGGAGCCGC CGCTCTACCC GATGGCGGGG GCTGCGGGGC 46  
MetGlu AlaGluProP roLeuTyrPr oMetAlaGly AlaAlaGlyP 16

CGCAGGGCGA CGAGGACCTG CTCGGGGTCC CGGACGGGCC CGAGGCCCCG 96  
roGlnGlyAs pGluAspLeu LeuGlyValP roAspGlyPr oGluAlaPro 32

CTGGACGAGC TGGTGGGCGC GTACCCCAAC TACAACGAGG AGGAGGAGGA 146 E49dup  
LeuAspGluL euValGlyAl aTyrProAsn TyrAsnGluG luGluGluG1 49

GCGCCGCTAC TACCGCCGCA AGCGCCTGGG CGTGCTCAAG AACGTGCTGG 196 R50S L65V  
uArgArgTyr TyrArgArgL ysArgLeuG1 yValLeuLys AsnValLeuA 66

CTGCCAGCGC CGGGGGCATG CTCACCTACG GCGTCTACCT GGGCCTCCTG 246  
laAlaSerAl aGlyGlyMet LeuThrTyrG lyValTyrLe uGlyLeuLeu 82

CAGATGCAGC TGATCCTGCA CTACGACGAG ACCTACCGCG AGGTGAAGTA 296 E92G T93I  
GlnMetGlnL euIleLeuHi sTyrAspGlu ThrTyrArgG luValLysTy 99

TGGCAACATG GGGCTGCCCC ACATCGACAG CAAAATGCTG ATGGGCATCA 346  
rGlyAsnMet GlyLeuProA spIleAspSe rLysMetLeu MetGlyIleA 116

ACGTGACTCC CATCGCCGCC CTGCTCTACA CACCTGTGCT CATCAGGTTT 396 V117L L129I  
snValThrPr oIleAlaAla LeuLeuTyrT hrProValLe uIleArgPhe 132

TTTGGAACGA AGTGGATGAT GTTCCTCGCT GTGGGCATCT ACGCCCTCTT 446  
PheGlyThrL ysTrpMetMe tPheLeuAla ValGlyIleT yrAlaLeuPh 149

TGTCCTCCACC AACTACTGGG AGCGCTACTA CACGCTTGTG CCCTCGGCTG 496 R157H S164L  
eValSerThr AsnTyrTrpG luArgTyrTy rThrLeuVal ProSerAlaV 166

TGGCCCTGGG CATGGCCATC GTGCCTCTTT GGGCTTCCAT GGGCAACTAC 546  
alAlaLeuGl yMetAlaIle ValProLeuT rpAlaSerMe tGlyAsnTyr 182

ATCACCAGGA TGGCGCAGAA GTACCATGAG TACTCCCACT ACAAGGAGCA 596  
IleThrArgM etAlaGlnLy sTyrHisGlu TyrSerHisT yrLysGluGl 199

GGATGGGCAG GGGATGAAGC AGCGGCCCTC GCGGGGCTCC CACGCGCCCT 646 P209L  
nAspGlyGln GlyMetLysG lnArgProPr oArgGlySer HisAlaProT 216

ATCTCCTGGT CTTCCAAGCC ATCTTCTACA GCTTCTTCCA TCTGAGCTTC 696  
yrLeuLeuVa lPheGlnAla IlePheTyrS erPhePheHi sLeuSerPhe 232

GCCTGCGCCC AGCTGCCCAT GATTTATTTT CTGAACCACT ACCTGTATGA 746  
AlaCysAlaG lnLeuProMe tIleTyrPhe LeuAsnHisT yrLeuTyrAs 249

CCTGAACCAC ACGCTGTACA ATGTGCAGAG CTGCGGCACC AACAGCCACG 796  
pLeuAsnHis ThrLeuTyrA snValGlnSe rCysGlyThr AsnSerHisG 266

GGATCCTCAG CGGCTTCAAC AAGACGGTTC TGCGGACGCT CCCGCGGAGC 846

lyIleLeuSe rGlyPheAsn LysThrValL euArgThrLe uProArgSer 282

GGAAACCTCA TTGTGGTGGG GAGCGTGCTC ATGGCAGTGG CCTTCCTGGC 896 [F297L](#) [A299S](#)

GlyAsnLeuI leValValGl uSerValLeu MetAlaValA laPheLeuAl 299

CATGCTGCTG GTGCTGGGTT TGTGCGGAGC CGCTTACCGG CCCACGGAGG 946 [T314A](#)

aMetLeuLeu ValLeuGlyL euCysGlyAl aAlaTyrArg ProThrGluG 316

AGATCGATCT GCGCAGCGTG GGCTGGGGCA ACATCTTCCA GCTGCCCTTC 996 [I317M](#) [G325C](#) [L330R](#)

luIleAspLe uArgSerVal GlyTrpGlyA snIlePheGl nLeuProPhe 332

AAGCACGTGC GTGACTACCG CCTGCGCCAC CTCGTGCCTT TCTTTATCTA 1046 [R336C](#) [R336L](#)

LysHisValA rgAspTyrAr gLeuArgHis LeuValProP hePheIleTy 349

CAGCGGCTTC GAGGTGCTCT TTGCCTGCAC TGGTATCGCC TTGGGCTATG 1096

rSerGlyPhe GluValLeuP heAlaCysTh rGlyIleAla LeuGlyTyrG 366

CGGTGTGCTC GGTGGGGCTG GAGCGGCTGG CTTACCTCCT CGTGGCTTAC 1146 [V380M](#)

lyValCysSe rValGlyLeu GluArgLeuA laTyrLeuLe uValAlaTyr 382

AGCCTGGGCG CCTCAGCCGC CTCACTCCTG GGCCTGCTGG GCCTGTGGCT 1196 [A388V](#)

SerLeuGlyA laSerAlaAl aSerLeuLeu GlyLeuLeuG lyLeuTrpLe 399

GCCACGCCCC GTGCCCCTGG TGGCCGGAGC AGGGGTGCAC CTGCTGCTCA 1246 [P404S](#)

uProArgPro ValProLeuV alAlaGlyAl aGlyValHis LeuLeuLeuT 416

CCTTCATCCT CTTTTTCTGG GCCCCTGTGC CTCGGGTCCT GCAACACAGC 1296

hrPheIleLe uPhePheTrp AlaProValP roArgValLe uGlnHisSer 432

TGGATCCTCT ATGTGGCAGC TGCCCTTTGG GGTGTGGGCA GTGCCCTGAA 1346

TrpIleLeuT yrValAlaAl aAlaLeuTrp GlyValGlyS erAlaLeuAs 449

CAAGACTGGA CTCAGCACAC TCCTGGGAAT CTTGTACGAA GACAAGGAGA 1396

nLysThrGly LeuSerThrL euLeuGlyIl eLeuTyrGlu AspLysGluA 466

GACAGGACTT CATCTTCACC ATCTACCACT GGTGGCAGGC TGTGGCCATC 1446 [R466S](#)

rgGlnAspPh eIlePheThr IleTyrHist rpTrpGlnAl aValAlaIle 482

TTCACCGTGT ACCTGGGCTC GAGCCTGCAC ATGAAGGCTA AGCTGGCGGT 1496 [V485M](#)

PheThrValT yrLeuGlySe rSerLeuHis MetLysAlaL ysLeuAlaVa 499

GCTGCTGGTG ACGCTGGTGG CGGCCGCGGT CTCCTACCTG CGGATGGAGC 1546

lLeuLeuVal ThrLeuValA laAlaAlaVa lSerTyrLeu ArgMetGluG 516

AGAAGCTGCG CCGGGGCGTG GCCCCGCGCC AGCCCCGCAT CCCGCGGCC 1596 [R525P](#) [P532T](#)

lnLysLeuAr gArgGlyVal AlaProArgG lnProArgIl eProArgPro 532

CAGCACAAGG TGC GCGGTTA CCGCTACTTG GAGGAGGACA ACTCGGACGA 1646

GlnHisLysV alArgGlyTy rArgTyrLeu GluGluAspA snSerAspGl 549

GAGCGACGCG GAGGCGGAGC ATGGGGACGG CGCGGAGGAG GAGGCGCCGC 1696 [G554D](#)

uSerAspAla GluGlyGluH isGlyAspGl yAlaGluGlu GluAlaProP 566

CCGCAGGGCC CAGGCCTGGC CCCGAGCCCG CTGGACTCGG CCGCCGGCCC 1746 [E574Q](#) [P575H](#)

roAlaGlyPr oArgProGly ProGluProA laGlyLeuGl yArgArgPro 582

TGCCCCGTACG AACAGGCGCA GGGGGAGAC GGGCCGGAGG AGCAGTGAGG \*2 G590W G590R G591E G593R

CysProTyrG luGlnAlaG1 nGlyGlyAsp GlyProGluG luGlnStop

GGCCGCCTGG TCCCCGGACT CAGCCTCCCT CCTCGCCGGC CTCAGTTTAC \*52  
CACGTCTGAG GTCGGGGGGA CCCCTCCGA GTCCCGCGCT GTCTTCAAAG \*102  
GCCCTGTCT CCCCTCCCC ACGTTGGGA CGCCCTCCC AGAGCCCAGG \*152  
TCACCTCCGG GCTTCCGCAG CCCCTCCAA GCGGAGTGG AGCCTTGGGA \*202  
ACCCCTCGGC CAAGCACAGG GGTTCGAAAA TACAGCTGAA ACCCCGCGGG \*252  
CCCTTAGCAC GCGCCCCAGC GCCGGAGCAC GGTCAGGGTC TTCTTGCGAC \*302  
CCGGCCCCT CCAGATCCCC ACAGCTCTCG GCCGCGGACC CGGGCCCGCT \*352  
GTGAGCGCAC TTTGCACCTC CTATCCCAG GGTCCGCCGA GAGCCACGAT \*402  
TTTTTACAGA AAATGAGCAA TAAAGAGATT TTGTACTGTC CTGA

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