



## UNC93B1 (NM\_030930.4) - cDNA + Protein - 2025-09-04

GGCGGGTCGC AGGGACTCCG GGGCGACCGC CGCGAGTCCG CAGTAGTTCG -5

GGCCATGAG GCGGAGCCGC CGCTCTACCC GATGGCGGGG GCTGCGGGGC 46

MetGlu AlaGluProP roLeuTyrPr oMetAlaGly AlaAlaGlyP 16

CGCAGGGCGA CGAGGACCTG CTCGGGGTCC CGGACGGGCC CGAGGCCCCG 96

roGlnGlyAs pGluAspLeu LeuGlyValP roAspGlyPr oGluAlaPro 32

CTGGACGAGC TGGTGGCGC GTACCCCAAC TACAACGAGG AGGAGGAGGA 146 E49dup

LeuAspGluL euValGlyAl aTyrProAsn TyrAsnGluG luGluGluGl 49

GCCCGCTAC TACCGCCGCA AGCGCCTGGG CGTGCTCAAG AACGTGCTGG 196 R50S L65V

uArgArgTyr TyrArgArgL ysArgLeuGl yValLeuLys AsnValLeuA 66

CTGCCAGCGC CGGGGGCATG CTCACCTACG GCGTCTACCT GGGCCTCCTG 246

IaAlaSerAl aGlyGlyMet LeuThrTyrG lyValTyrLe uGlyLeuLeu 82

CAGATGCAGC TGATCCTGCA CTACGACGAG ACCTACCGCG AGGTGAAGTA 296 E92G T93I

GlnMetGlnL euIleLeuHi sTyrAspGlu ThrTyrArgG luValLysTy 99

TGGCAACATG GGGCTGCCCG ACATCGACAG CAAAATGCTG ATGGGCATCA 346

rGlyAsnMet GlyLeuProA spIleAspSe rLysMetLeu MetGlyIleA 116

**ACGTGACTCC CATCGCCGCC CTGCTCTACA CACCTGTGC CATCAGGTTT 396 V117L L129I**

snValThrPr oIleAlaAla LeuLeuTyrT hrProValLe uIleArgPhe 132

**TTTGGAACGA AGTGGATGAT GTTCCTCGCT GTGGGCATCT ACGCCCTCTT 446**

PheGlyThrL ysTrpMetMe tPheLeuAla ValGlyIleT yrAlaLeuPh 149

**TGTCTCCACC 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 AGCGGCCT GCGGGGCTCC CACGCGCCC 646 P209L**

nAspGlyGln GlyMetLysG lnArgProPr oArgGlySer HisAlaProT 216

**ATCTCCTGGT CTTCCAAGCC ATCTTCTACA GCTTCTCCA TCTGAGCTTC 696**

yrLeuLeuVa lPheGlnAla IlePheTyrS erPhePheHi sLeuSerPhe 232

**GCCTGCGCCC AGCTGCCCAT GATTATTTCTGAACCACT ACCTGTATGA 746**

AlaCysAlaG lnLeuProMe tIleTyrPhe LeuAsnHisT yrLeuTyrAs 249

**CCTGAACCAC ACGCTGTACA ATGTGCAGAG CTGCGGCACC AACAGCCACG 796**

pLeuAsnHis ThrLeuTyrA snValGlnSe rCysGlyThr AsnSerHisG 266

**GGATCCTCAG CGGCTCAAC AAGACGGTTC TGCGGACGCT CCCGCGGAGC 846**

lyIleLeuSe rGlyPheAsn LysThrValL euArgThrLe uProArgSer 282

GGAAACCTCA TTGTGGTGGA GAGCGTGCTC ATGGCAGTGG CCTTCCTGGC 896 F297L A299S

GlyAsnLeuI leValValGl uSerValLeu MetAlaValA laPheLeuAl 299

CATGCTGCTG GTGCTGGTT TGTGCGGAGC CGCTTACCGG CCCACGGAGG 946 T314A

aMetLeuLeu ValLeuGlyL euCysGlyAl aAlaTyrArg ProThrGluG 316

AGATCGATCT GCGCAGCGTG GGCTGGGGCA ACATCTTCCA GCTTGCCCTTC 996 I317M G325C L330R

luIleAspLe uArgSerVal GlyTrpGlyA snIlePheGl nLeuProPhe 332

AAGCACGTG GTGACTACCG CCTGCGCCAC CTCGTGCCTT TCTTTATCTA 1046 R336C R336L

LysHisValA rgAspTyrAr gLeuArgHis LeuValProP hePheIleTy 349

CAGCGGCTTC GAGGTGCTCT TTGCCTGCAC TGGTATGCC TTGGGGCTATG 1096

rSerGlyPhe GluValLeuP heAlaCysTh rGlyIleAla LeuGlyTyrG 366

GCGTGTGCTC GGTGGGGCTG GAGCGGCTGG CTTACCTCCT CGTGGCTTAC 1146 V380M

lyValCysSe rValGlyLeu GluArgLeuA laTyrLeuLe uValAlaTyr 382

AGCCTGGGCG CCTCAGCG CTCACTCCTG GGCCTGCTGG GCCTGTGGCT 1196 A388V

SerLeuGlyA laSerAlaAl aSerLeuLeu GlyLeuLeuG lyLeuTrpLe 399

GCCACGCCCG GTGCCCTGG TGGCCGGAGC AGGGGTGCAC CTGCTGCTCA 1246 P404S

uProArgPro ValProLeuV alAlaGlyAl aGlyValHis LeuLeuLeuT 416

CCTTCATCCT CTTTTCTGG GCCCCTGTGC CTCGGGTCT GCAACACAGC 1296

hrPheIleLe uPhePheTrp AlaProValP roArgValLe uGlnHisSer 432

TGGATCCTCT ATGTGGCAGC TGCCCTTGG GGTGTGGCA 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

AGAACGCTGCG CGGGGGCGTG GCCCCGGGC AGCCCCGCAT CCCGCGGCC 1596 R525P P532T

lnLysLeuAr gArgGlyVal AlaProArgG lnProArgIl eProArgPro 532

CAGCACAAAGG TGCGCGGTTA CCGCTACTTG GAGGAGGACA ACTCGGACGA 1646

GlnHisLysV alArgGlyTy rArgTyrLeu GluGluAspA snSerAspG1 549

GAGCGACGCG GAGGCGAGC ATGGGGACGG CGCGGAGGAG GAGGCGCCGC 1696 G554D

uSerAspAla GluGlyGluH isGlyAspG1 yAlaGluGlu GluAlaProP 566

CCGCAGGGCC CAGGCCTGGC CCCGAGCCCG CTGGACTCGG CCGCCGGCCC 1746 E574Q P575H

roAlaGlyPr oArgProGly ProGluProA laGlyLeuG1 yArgArgPro 582

TGCCCGTACG AACAGGCGCA GGGGGGAGAC GGGCCGGGAGG AGCAGTGAGG \*2    G590W G590R G591E G593R

CysProTyrG luGlnAlaG1 nGlyGlyAsp GlyProGluG luGlnStop

GGCCGCCTGG TCCCCGGACT CAGCCTCCCT CCTCGCCGGC CTCAGTTAC \*52  
CACGTCTGAG GTCGGGGGA CCCCTCCGA GTCCCGCGCT GTCTCAAAG \*102  
GCCCTGTCT CCCCTCCCCC ACGTTGGGA CGCCCTCCC AGAGCCCAGG \*152  
TCACCTCCGG GCTTCCGCAG CCCCTCCAA GGCGGAGTGG AGCCTTGGGA \*202  
ACCCCTCGGC CAAGCACAGG GGTCGAAAA TACAGCTGAA ACCCCGGGG \*252  
CCCTTAGCAC GCGCCCCAGC GCCGGAGCAC GGTCA~~GG~~TC TTCTTGCGAC \*302  
CGGGCCCGCT CCAGATCCCC ACAGCTCTCG GCCGCGGACC CGGGCCGCGT \*352  
GTGAGCGCAC TTTGCACCTC CTATCCCCAG GGTCCGCCGA GAGCCACGAT \*402  
TTTTTACAGA AAATGAGCAA TAAAGAGATT TTGTACTGTC CTGA

**UNC93B1 (NM\_030930.4) - cDNA + Protein - 2025-09-04**

