



F12 (NM_000505.3) - cDNA + Protein - 2024-05-19

CTATTGATCT GGACTCCTGG ATAGGCAGCT GGACCAACGG ACGGATGCCA 1

M 1

TGAGGGCTCT GCTGCTCCTG GGGTTCCTGC TGGTGAGCTT GGAGTCAACA 51

etArgAlaLe uLeuLeuLeu GlyPheLeuL euValSerLe uGluSerThr 17

CTTTCGATTC CACCTTGCGA AGCCCCCAAG GAGCATAAGT ACAAAGCTGA 101

LeuSerIleP roProTrpGl uAlaProLys GluHisLysT yrLysAlaGl 34

AGAGCACACA GTCGTTCTCA CTGTCACCGG GGAGCCCTGC CACTTCCCCT 151

uGluHisThr ValValLeuT hrValThrGl yGluProCys HisPheProP 51

TCCAGTACCA CCGGCAGCTG TACCACAAAT GTACCCACAA GGGCCGGCCA 201

heGlnTyrHi sArgGlnLeu TyrHisLysC ysThrHisLy sGlyArgPro 67

GGCCCTCAGC CCTGGTGTGC TACCACCCCC AACTTTGATC AGGACCAGCG 251

GlyProGlnP roTrpCysAl aThrThrPro AsnPheAspG lnAspGlnAr 84

ATGGGGATAC TGTTTGGAGC CCAAGAAAGT GAAAGACCAC TGCAGCAAAC 301

gTrpGlyTyr CysLeuGluP roLysLysVa lLysAspHis CysSerLysH 101

ACAGCCCCTG CCAGAAAGGA GGGACCTGTG TGAACATGCC AAGCGGCCCC 351

isSerProCy sGlnLysGly GlyThrCysV aIAsnMetPr oSerGlyPro 117

CACTGTCTCT GTCCACAACA CCTCACTGGA AACCACTGCC AGAAAGAGAA 401

HisCysLeuC ysProGlnHi sLeuThrGly AsnHisCysG lnLysGluLy 134

GTGCTTTGAG CCTCAGCTTC TCCGGTTTTT CCACAAGAAT GAGATATGGT 451

sCysPheGlu ProGlnLeuL euArgPhePh eHisLysAsn GluIleTrpT 151

ATAGAACTGA GCAAGCAGCT GTGGCCAGAT GCCAGTGCAA GGGTCCTGAT 501

yrArgThrGl uGlnAlaAla ValAlaArgC ysGlnCysLy sGlyProAsp 167

GCCCACTGCC AGCGGCTGGC CAGCCAGGCC TGCCGCACCA ACCCGTGCCT 551

AlaHisCysG lnArgLeuAl aSerGlnAla CysArgThrA snProCysLe 184

CCATGGGGGT CGCTGCCTAG AGGTGGAGGG CCACCGCCTG TGCCACTGCC 601

uHisGlyGly ArgCysLeuG luValGluGl yHisArgLeu CysHisCysP 201

CGGTGGGCTA CACCGGAGCC TTCTGCGACG TGGACACCAA GGCAAGCTGC 651

roValGlyTy rThrGlyAla PheCysAspV aIAspThrLy sAlaSerCys 217

TATGATGGCC GCGGGCTCAG CTACCGCGGC CTGGCCAGGA CCACGCTCTC 701

TyrAspGlyA rgGlyLeuSe rTyrArgGly LeuAlaArgT hrThrLeuSe 234

GGGTGCGCCC TGTCAGCCGT GGGCCTCGGA GGCCACCTAC CGGAACGTGA 751

rGlyAlaPro CysGlnProT rpAlaSerGl uAlaThrTyr ArgAsnValT 251

CTGCCGAGCA AGCGCGGAAC TGGGGACTGG GCGGCCACGC CTTCTGCCGG 801

hrAlaGluGl nAlaArgAsn TrpGlyLeuG lyGlyHisAl aPheCysArg 267

AACCCGGACA ACGACATCCG CCCGTGGTGC TTCGTGCTGA ACCGCGACCG 851

AsnProAspA snAspIleAr gProTrpCys PheValLeuA snArgAspAr 284

GCTGAGCIGG GAGTACTGCG ACCTGGCACA GTGCCAGACC CCAACCCAGG 901 [W268R](#)

gLeuSerTrp GluTyrCysA spLeuAlaGl nCysGlnThr ProThrGlnA 301

CGGCGCCTCC GACCCCGGTG TCCCCTAGGC TTCATGTCCC ACTCATGCCC 951

laAlaProPr oThrProVal SerProArgL euHisValPr oLeuMetPro 317

GCGCAGCCGG CACCGCCGAA GCCTCAGCCC ACGACCCGGA CCGCGCCTCA 1001

AlaGlnProA laProProLy sProGlnPro ThrThrArgT hrProProGl 334

GTCCCAGACC CCGGGAGCCT TGCCGGCGAA GCGGGAGCAG CCGCCTTCCC 1051

nSerGlnThr ProGlyAlaL euProAlaLy sArgGluGln ProProSerL 351

TGACCAGGAA CGGCCCACTG AGCTGCGGGC AGCGGCTCCG CAAGAGTCTG 1101

euThrArgAs nGlyProLeu SerCysGlyG lnArgLeuAr gLysSerLeu 367

TCTTCGATGA CCCGCGTCGT TGGCGGGCTG GTGGCGCTAC GCGGGGCGCA 1151

SerSerMetT hrArgValVa lGlyGlyLeu ValAlaLeuA rgGlyAlaHi 384

CCCCTACATC GCCGCGCTGT ACTGGGGCCA CAGTTTCTGC GCCGGCAGCC 1201

sProTyrIle AlaAlaLeuT yrTrpGlyHi sSerPheCys AlaGlySerL 401

TCATCGCCCC CTGCTGGGTG CTGACGGCCG CTCACTGCCT GCAGGACCGG 1251

euIleAlaPr oCysTrpVal LeuThrAlaA laHisCysLe uGlnAspArg 417

CCCGCACCCG AGGATCTGAC GGTGGTGCTC GGCCAGGAAC GCCGTAACCA 1301

ProAlaProG luAspLeuTh rValValLeu GlyGlnGluA rgArgAsnHi 434

CAGCTGTGAG CCGTGCCAGA CGTTGGCCGT GCGCTCCTAC CGCTTGACAG 1351

sSerCysGlu ProCysGlnT hrLeuAlaVa lArgSerTyr ArgLeuHisG 451

AGGCCTTCTC GCCCCTCAGC TACCAGCAGC ACCTGGCTCT GTTGCGCCTT 1401

luAlaPheSe rProValSer TyrGlnHisA spLeuAlaLe uLeuArgLeu 467

CAGGAGGATG CGGACGGCAG CTGCGCGCTC CTGTCGCCTT ACGTTCAGCC 1451

GlnGluAspA laAspGlySe rCysAlaLeu LeuSerProT yrValGlnPr 484

GGTGTGCCTG CCAAGCGGCG CCGCGCGACC CTCCGAGACC ACGCTCTGCC 1501

oValCysLeu ProSerGlyA laAlaArgPr oSerGluThr ThrLeuCysG 501

AGGTGGCCGG CTGGGGCCAC CAGTTCGAGG GGGCGGAGGA ATATGCCAGC 1551

lnValAlaGl yTrpGlyHis GlnPheGluG lyAlaGluGl uTyrAlaSer 517

TTCCTGCAGG AGGCGCAGGT ACCGTTCTCT TCCCTGGAGC GCTGCTCAGC 1601

PheLeuGlnG luAlaGlnVa lProPheLeu SerLeuGluA rgCysSerAl 534

CCCGGACGTG CACGGATCCT CCATCCTCCC CGGCATGCTC TGCAGAGGGT 1651

aProAspVal HisGlySerS erIleLeuPr oGlyMetLeu CysAlaGlyP 551

TCCTCGAGGG CGGCACCGAT GCGTGCCAGG GTGATTCCGG AGGCCCCGCTG 1701

heLeuGluGl yGlyThrAsp AlaCysGlnG lyAspSerGl yGlyProLeu 567

GTGTGTGAGG ACCAAGCTGC AGAGCGCCGG CTCACCCTGC AAGGCATCAT 1751

ValCysGluA spGlnAlaAl aGluArgArg LeuThrLeuG lnGlyIleIl 584

CAGCTGGGGA TCGGGCTGTG GTGACCGCAA CAAGCCAGGC GTCTACACCG 1801

eSerTrpGly SerGlyCysG lyAspArgAs nLysProGly ValTyrThrA 601

ATGTGGCCTA CTACCTGGCC TGGATCCGGG AGCACACCGT TTCCTGATTG *3

spValAlaTy rTyrLeuAla TrpIleArgG luHisThrVa lSerStop

CTCAGGGACT CATCTTTCCC TCCTTGGTGA TTCCGCAGTG AGAGAGTGGC *53

TGGGGCATGG AAGGCAAGAT TGTGTCCCAT TCCCCCAGTG CGGCCAGCTC *103

CGCGCCAGGA TGGCGCAGGA ACTCAATAAA GTGCTTTGAA AATGCTGAGA *153

A

F12 (NM_000505.3) - cDNA + Protein - 2024-05-19

