



F12 (NM_000505.4) - cDNA + Protein - 2026-05-12

ACTCCTGGAT AGGCAGCTGG ACCAACGGAC GGATGCCATG AGGGCTCTGC 13
Met ArgAlaLeuL 5

TGCTCCTGGG GTTCCTGCTG GTGAGCTTGG AGTCAACACT TTCGATTCCA 63
euLeuLeuGl yPheLeuLeu ValSerLeuG luSerThrLe uSerIlePro 21

CCTTGGGAAG CCCCCAAGGA GCATAAGTAC AAAGCTGAAG AGCACACAGT 113
ProTrpGluA laProLysGl uHisLysTyr LysAlaGluG luHisThrVa 38

CGTTCTCACT GTCACCGGGG AGCCCTGCCA CTTCCCCTTC CAGTACCACC 163
lValLeuThr ValThrGlyG luProCysHi sPheProPhe GlnTyrHisA 55

GGCAGCTGTA CCACAAATGT ACCCACAAGG GCCGGCCAGG CCCTCAGCCC 213
rgGlnLeuTy rHisLysCys ThrHisLysG lyArgProGl yProGlnPro 71

TGGTGTGCTA CCACCCCAA CTTTGATCAG GACCAGCGAT GGGGATACTG 263
TrpCysAlaT hrThrProAs nPheAspGln AspGlnArgT rpGlyTyrCy 88

TTTGGAGCCC AAGAAAGTGA AAGACCACTG CAGCAAACAC AGCCCCTGCC 313
sLeuGluPro LysLysValL ysAspHisCy sSerLysHis SerProCysG 105

AGAAAGGAGG GACCTGTGTG AACATGCCAA GCGGCCCCCA CTGTCTCTGT 363

InLysGlyGl yThrCysVal AsnMetProS erGlyProHi sCysLeuCys 121

CCACAACACC TCACTGGAAA CCACTGCCAG AAAGAGAAGT GCTTTGAGCC 413

ProGlnHisL euThrGlyAs nHisCysGln LysGluLysC ysPheGluPr 138

TCAGCTTCTC CGGTTTTTCC ACAAGAATGA GATATGGTAT AGAACTGAGC 463

oGlnLeuLeu ArgPhePheH isLysAsnGl uIleTrpTyr ArgThrGluG 155

AAGCAGCTGT GGCCAGATGC CAGTGCAAGG GTCCTGATGC CCACTGCCAG 513

InAlaAlaVa lAlaArgCys GlnCysLysG lyProAspAl aHisCysGln 171

CGGCTGGCCA GCCAGGCCTG CCGCACCAAC CCGTGCCTCC ATGGGGGTCC 563

ArgLeuAlaS erGlnAlaCy sArgThrAsn ProCysLeuH isGlyGlyAr 188

CTGCCTAGAG GTGGAGGGCC ACCGCCTGTG CCACTGCCCC GTGGGCTACA 613

gCysLeuGlu ValGluGlyH isArgLeuCy sHisCysPro ValGlyTyrT 205

CCGGAGCCTT CTGCGACGTG GACACCAAGG CAAGCTGCTA TGATGGCCGC 663

hrGlyAlaPh eCysAspVal AspThrLysA laSerCysTy rAspGlyArg 221

GGGCTCAGCT ACCGCGGCCT GGCCAGGACC ACGCTCTCGG GTGCGCCCTG 713

GlyLeuSerT yrArgGlyLe uAlaArgThr ThrLeuSerG lyAlaProCy 238

TCAGCCGTGG GCCTCGGAGG CCACCTACCG GAACGTGACT GCCGAGCAAG 763

sGlnProTrp AlaSerGluA laThrTyrAr gAsnValThr AlaGluGlnA 255

CGCGGAACTG GGGACTGGGC GGCCACGCCT TCTGCCGAA CCCGACAAC 813

laArgAsnTr pGlyLeuGly GlyHisAlaP heCysArgAs nProAspAsn 271

GACATCCGCC CGTGGTGCCTT CGTGCTGAAC CGCGACCGGC TGAGCTGGGA 863 [W268R](#)
AspIleArgP roTrpCysPh eValLeuAsn ArgAspArgL euSerTrpGl 288

GTACTGCGAC CTGGCACAGT GCCAGACCCC AACCCAGGCG GCGCCTCCGA 913
uTyrCysAsp LeuAlaGlnC ysGlnThrPr oThrGlnAla AlaProProT 305

CCCCGGTGTC CCCTAGGCTT CATGTCCCAC TCATGCCCGC GCAGCCGGCA 963
hrProValSe rProArgLeu HisValProL euMetProAl aGlnProAla 321

CCGCCGAAGC CTCAGCCCAC GACCCGGACC CCGCCTCAGT CCCAGACCCC 1013
ProProLysP roGlnProTh rThrArgThr ProProGlnS erGlnThrPr 338

GGGAGCCTTG CCGGCGAAGC GGGAGCAGCC GCCTTCCCTG ACCAGGAACG 1063
oGlyAlaLeu ProAlaLysA rgGluGlnPr oProSerLeu ThrArgAsnG 355

GCCCACTGAG CTGCGGGCAG CGGCTCCGCA AGAGTCTGTC TTCGATGACC 1113
lyProLeuSe rCysGlyGln ArgLeuArgL ysSerLeuSe rSerMetThr 371

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ArgValValG lyGlyLeuVa lAlaLeuArg GlyAlaHisP roTyrIleAl 388

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aAlaLeuTyr TrpGlyHisS erPheCysAl aGlySerLeu IleAlaProC 405

GCTGGGTGCT GACGGCCGCT CACTGCCTGC AGGACCGGCC CGCACCCGAG 1263
ysTrpValLe uThrAlaAla HisCysLeuG lnAspArgPr oAlaProGlu 421

GATCTGACGG TGGTGCTCGG CCAGGAACGC CGTAACCACA GCTGTGAGCC 1313
AspLeuThrV alValLeuGl yGlnGluArg ArgAsnHisS erCysGluPr 438

GTGCCAGACG TTGGCCGTGC GCTCCTACCG CTTGCACGAG GCCTTCTCGC 1363
oCysGlnThr LeuAlaValA rgSerTyrAr gLeuHisGlu AlaPheSerP 455

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roValSerTy rGlnHisAsp LeuAlaLeuL euArgLeuGl nGluAspAla 471

GACGGCAGCT GCGCGCTCCT GTCGCCTTAC GTTCAGCCGG TGTGCCTGCC 1463
AspGlySerC ysAlaLeuLe uSerProTyr ValGlnProV alCysLeuPr 488

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rpGlyHisGl nPheGluGly AlaGluGluT yrAlaSerPh eLeuGlnGlu 521

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AlaGlnValP roPheLeuSe rLeuGluArg CysSerAlaP roAspValHi 538

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sGlySerSer ileLeuProG lyMetLeuCy sAlaGlyPhe LeuGluGlyG 555

GCACCGATGC GTGCCAGGGT GATTCCGGAG GCCCGCTGGT GTGTGAGGAC 1713
lyThrAspAl aCysGlnGly AspSerGlyG lyProLeuVa lCysGluAsp 571

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GlnAlaAlaG luArgArgLe uThrLeuGln GlyIleIleS erTrpGlySe 588

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rGlyCysGly AspArgAsnL ysProGlyVa lTyrThrAsp ValAlaTyrT 605

ACCTGGCCTG GATCCGGGAG CACACCGTTT CCTGATTGCT CAGGGACTCA *15

yrLeuAlaTr pIleArgGlu HisThrVals erStop

TCTTTCCTC CTTGGTGATT CCGCAGTGAG AGAGTGGCTG GGGCATGGAA *65

GGCAAGATTG TGTCCCATTG CCCCAGTGCG GCCAGCTCCG CGCCAGGATG *115

GCGCAGGAAC TCAATAAAGT GCTTTGAAAA TGCTGA

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