



TLR7 (NM_016562.4) - cDNA + Protein - 2026-05-25

ACTTCATCTC AGAAGACTCC AGATATAGGA TCACTCCATG CCATCAAGAA -101
AGTTGATGCT ATTGGGCCCA TCTCAAGCTG ATCTTGGCAC CTCTCATGCT -51
CTGCTCTCTT CAACCAGACC TCTACATTCC ATTTTGGGAAG AAGACTAAAA -1
ATGGTGTTTC CAATGTGGAC ACTGAAGAGA CAAATTCTTA TCCTTTTAA 50
MetValPheP roMetTrpTh rLeuLysArg GlnIleLeuI leLeuPheAs 17

CATAATCCTA ATTTCCAAAC TCCTTGGGGC T~~A~~GATGGTTT CCTAAAACTC 100 R28G
nIleIleLeu IleSerLysL euLeuGlyAl aArgTrpPhe ProLysThrL 34

TGCCCTGTGA TGTCACTCTG GATGTTCCAA AGAACCATGT GATCGTGGAC 150
euProCysAs pValThrLeu AspValProL ysAsnHisVa lIleValAsp 50

TGCACAGACA AGCATTGAC AGAAATTCCT GGAGGTATTC CCACGAACAC 200
CysThrAspL ysHisLeuTh rGluIlePro GlyGlyIleP roThrAsnTh 67

CACGAACCTC ACCCTCACCA TTAACCACAT ACCAGACATC TCCCCAGCGT 250
rThrAsnLeu ThrLeuThrI leAsnHisIl eProAspIle SerProAlaS 84

CCTTTCACAG ACTGGACCAT CTGGTAGAGA TCGATTTTCAG ATGCAACTGT 300
erPheHisAr gLeuAspHis LeuValGluI leAspPheAr gCysAsnCys 100

GTACCTATTC CACTGGGGTC AAAAAACAAC ATGTGCATCA AGAGGCTGCA 350

ValProIleP roLeuGlySe rLysAsnAsn MetCysIleL ysArgLeuGl 117

GATTAAACCC AGAAGCTTTA GTGGACTCAC TTATTTAAAA TCCCTTTACC 400

nIleLysPro ArgSerPheS erGlyLeuTh rTyrLeuLys SerLeuTyrL 134

TGGATGGAAA CCAGCTACTA GAGATACCGC AGGGCCTCCC GCCTAGCTTA 450

euAspGlyAs nGlnLeuLeu GluIleProG lnGlyLeuPr oProSerLeu 150

CAGCTTCTCA GCCTTGAGGC CAACAACATC TTTTCCATCA GAAAAGAGAA 500

GlnLeuLeuS erLeuGluAl aAsnAsnIle PheSerIleA rgLysGluAs 167

TCTAACAGAA CTGGCCAACA TAGAAATACT CTACCTGGGC CAAAAGTGT 550

nLeuThrGlu LeuAlaAsnI leGluIleLe uTyrLeuGly GlnAsnCysT 184

ATTATCGAAA TCCTTGTTAT GTTTCATATT CAATAGAGAA AGATGCCTTC 600

yrTyrArgAs nProCysTyr ValSerTyrS erIleGluLy sAspAlaPhe 200

CTAAACTTGA CAAAGTTAAA AGTGCTCTCC CTGAAAGATA ACAATGTCAC 650

LeuAsnLeuT hrLysLeuLy sValLeuSer LeuLysAspA snAsnValTh 217

AGCCGTCCCT ACTGTTTTGC CATCTACTTT AACAGAACTA TATCTCTACA 700

rAlaValPro ThrValLeuP roSerThrLe uThrGluLeu TyrLeuTyrA 234

ACAACATGAT TGCAAAAATC CAAGAAGATG ATTTTAATAA CCTCAACCAA 750

snAsnMetIl eAlaLysIle GlnGluAspA spPheAsnAs nLeuAsnGln 250

TTACAAATTC TTGACCTAAG TGGAAATTGC CCTCGTTGTT ATAATGCCCCC 800 [Y264H](#) [P267L](#)

LeuGlnIleL euAspLeuSe rGlyAsnCys ProArgCysT yrAsnAlaPr 267

ATTTCTTGT GCGCCGTGTA AAAATAATTC TCCCCTACAG ATCCCTGTAA 850
oPheProCys AlaProCysL ysAsnAsnSe rProLeuGln IleProValA 284

ATGCTTTTGA TCGCCTGACA GAATTAAGA TTTTACGTCT ACACAGTAAC 900
snAlaPheAs pAlaLeuThr GluLeuLysV alLeuArgLe uHisSerAsn 300

TCTCTTCAGC ATGTGCCCCC AAGATGGTTT AAGAACATCA ACAAACCTCCA 950
SerLeuGlnH isValProPr oArgTrpPhe LysAsnIleA snLysLeuGl 317

GGAACCTGGAT CTGTCCCAA ACTTCTTGGC CAAAGAAATT GGGGATGCTA 1000
nGluLeuAsp LeuSerGlnA snPheLeuAl aLysGluIle GlyAspAlaL 334

AATTTCTGCA TTTTCTCCCC AGCCTCATCC AATTGGATCT GTCTTTCAAT 1050
ysPheLeuHi sPheLeuPro SerLeuIleG lnLeuAspLe uSerPheAsn 350

TTTGAACCTC AGGTCTATCG TGCATCTATG AATCTATCAC AAGCATTTC 1100
PheGluLeuG lnValTyrAr gAlaSerMet AsnLeuSerG lnAlaPheSe 367

TTCACCTGAAA AGCCTGAAAA TTCTGCGGAT CAGAGGATAT GTCTTTAAAG 1150
rSerLeuLys SerLeuLysI leLeuArgIl eArgGlyTyr ValPheLysG 384

AGTTGAAAAG CTTTAACCTC TCGCCATTAC ATAATCTTCA AAATCTTGAA 1200
luLeuLysSe rPheAsnLeu SerProLeuH isAsnLeuGl nAsnLeuGlu 400

GTTCTTGATC TTGGCACTAA CTTTATAAAA ATTGCTAACC TCAGCATGTT 1250
ValLeuAspL euGlyThrAs nPheIleLys IleAlaAsnL euSerMetPh 417

TAAACAATTT AAAAGACTGA AAGTCATAGA TCTTTCAGTG AATAAAATAT 1300

eLysGlnPhe LysArgLeuL ysValIleAs pLeuSerVal AsnLysIleS 434

CACCTTCAGG AGATTCAAGT GAAGTTGGCT TCTGCTCAA TGCCAGAACT 1350 P435S

erProSerGl yAspSerSer GluValGlyP heCysSerAs nAlaArgThr 450

TCTGTAGAAA GTTATGAACC CCAGGTCCTG GAACAATTAC ATTATTTTCAG 1400

SerValGluS erTyrGluPr oGlnValLeu GluGlnLeuH isTyrPheAr 467

ATATGATAAG TATGCAAGGA GTTGCAGATT CAAAAACAAA GAGGCTTCTT 1450

gTyrAspLys TyrAlaArgS erCysArgPh eLysAsnLys GluAlaSerP 484

TCATGTCTGT TAATGAAAGC TGCTACAAGT ATGGGCAGAC CTTGGATCTA 1500

heMetSerVa lAsnGluSer CysTyrLysT yrGlyGlnTh rLeuAspLeu 500

AGTAAAAATA GTATATTTTT TGTCAAGTCC TCTGATTTTC AGCATCTTTC 1550 F506S F507S F507L

SerLysAsnS erIlePhePh eValLysSer SerAspPheG lnHisLeuSe 517

TTTCCTCAA TGCCTGAATC TGTCAGGAAA TCTCATTAGC CAAACTCTTA 1600 L528I

rPheLeuLys CysLeuAsnL euSerGlyAs nLeuIleSer GlnThrLeuA 534

ATGGCAGTGA ATTCCAACCT TTAGCAGAGC TGAGATATTT GGACTTCTCC 1650

snGlySerGl uPheGlnPro LeuAlaGluL euArgTyrLe uAspPheSer 550

AACAACCGGC TTGATTTACT CCATTCAACA GCATTTGAAG AGCTTCACAA 1700

AsnAsnArgL euAspLeuLe uHisSerThr AlaPheGluG luLeuHisLy 567

ACTGGAAGTT CTGGATATAA GCAGTAATAG CCATTATTTT CAATCAGAAG 1750

sLeuGluVal LeuAspIleS erSerAsnSe rHisTyrPhe GlnSerGluG 584

GAATTACTCA TATGCTAAAC TTTACCAAGA ACCTAAAGGT TCTGCAGAAA 1800
lyIleThrHi sMetLeuAsn PheThrLysA snLeuLysVa lLeuGlnLys 600

CTGATGATGA ACGACAATGA CATCTCTTCC TCCACCAGCA GGACCATGGA 1850
LeuMetMetA snAspAsnAs pIleSerSer SerThrSerA rgThrMetGl 617

GAGTGAGTCT CTTAGAACTC TGGAATTCAG AGGAAATCAC TTAGATGTTT 1900
uSerGluSer LeuArgThrL euGluPheAr gGlyAsnHis LeuAspValL 634

TATGGAGAGA AGGTGATAAC AGATACTTAC AATTATTCAA GAATCTGCTA 1950
euTrpArgGl uGlyAspAsn ArgTyrLeuG lnLeuPheLy sAsnLeuLeu 650

AAATTAGAGG AATTAGACAT CTCTAAAAAT TCCCTAAGTT TCTTGCCTTC 2000
LysLeuGluG luLeuAspIl eSerLysAsn SerLeuSerP heLeuProSe 667

TGGAGTTTTT GATGGTATGC CTCCAAATCT AAAGAATCTC TCTTTGGCCA 2050
rGlyValPhe AspGlyMetP roProAsnLe uLysAsnLeu SerLeuAlaL 684

AAAATGGGCT CAAATCTTTC AGTTGGAAGA AACTCCAGTG TCTAAAGAAC 2100
ysAsnGlyLe uLysSerPhe SerTrpLysL ysLeuGlnCy sLeuLysAsn 700

CTGGAAACTT TGGACCTCAG CCACAACCAA CTGACCACTG TCCCTGAGAG 2150
LeuGluThrL euAspLeuSe rHisAsnGln LeuThrThrV alProGluAr 717

ATTATCCAAC TGTTCCAGAA GCCTCAAGAA TCTGATTCTT AAGAATAATC 2200
gLeuSerAsn CysSerArgS erLeuLysAs nLeuIleLeu LysAsnAsnG 734

AAATCAGGAG TCTGACGAAG TATTTTCTAC AAGATGCCTT CCAGTTGCGA 2250
lnIleArgSe rLeuThrLys TyrPheLeuG lnAspAlaPh eGlnLeuArg 750

TATCTGGATC TCAGCTCAAA TAAAATCCAG ATGATCCAAA AGACCAGCTT 2300
TyrLeuAspL euSerSerAs nLysIleGln MetIleGlnL ysThrSerPh 767

CCCAGAAAAT GTCCTCAACA ATCTGAAGAT GTTGCTTTTG CATCATAATC 2350
eProGluAsn ValLeuAsnA snLeuLysMe tLeuLeuLeu HisHisAsnA 784

GGTTTCTGTG CACCTGTGAT GCTGTGTGGT TTGTCTGGTG GGTTAACCAT 2400
rgPheLeuCy sThrCysAsp AlaValTrpP heValTrpTr pValAsnHis 800

ACGGAGGTGA CTATTCCTTA CCTGGCCACA GATGTGACTT GTGTGGGGCC 2450
ThrGluValT hrIleProTy rLeuAlaThr AspValThrC ysValGlyPr 817

AGGAGCACAC AAGGGCCAAA GTGTGATCTC CCTGGATCTG TACACCTGTG 2500 [G818V](#)
oGlyAlaHis LysGlyGlnS erValIleSe rLeuAspLeu TyrThrCysG 834

AGTTAGATCT GACTAACCTG ATTCTGTTCT CACTTTCCAT ATCTGTATCT 2550
luLeuAspLe uThrAsnLeu IleLeuPheS erLeuSerIl eSerValSer 850

CTCTTTCTCA TGGTGATGAT GACAGCAAGT CACCTCTATT TCTGGGATGT 2600
LeuPheLeuM etValMetMe tThrAlaSer HisLeuTyrP heTrpAspVa 867

GTGGTATATT TACCATTCT GTAAGGCCAA GATAAAGGGG TATCAGCGTC 2650
lTrpTyrIle TyrHisPheC ysLysAlaLy sIleLysGly TyrGlnArgL 884

TAATATCACC AGACTGTTGC TATGATGCTT TTATTGTGTA TGACACTAAA 2700
euIleSerPr oAspCysCys TyrAspAlaP heIleValTy rAspThrLys 900

GACCCAGCTG TGACCGAGTG GGTTTTGGCT GAGCTGGTGG CCAAAGTGG 2750
AspProAlaV alThrGluTr pValLeuAla GluLeuValA laLysLeuGl 917

AGACCCAAGA GAGAAACATT TTAATTTATG TCTCGAGGAA AGGGACTGGT 2800
uAspProArg GluLysHisP heAsnLeuCy sLeuGluGlu ArgAspTrpL 934

TACCAGGGCA GCCAGTTCTG GAAAACCTTT CCCAGAGCAT ACAGCTTAGC 2850
euProGlyGl nProValLeu GluAsnLeuS erGlnSerIl eGlnLeuSer 950

AAAAAGACAG TGTTTGTGAT GACAGACAAG TATGCAAAGA CTGAAAATTT 2900
LysLysThrV alPheValMe tThrAspLys TyrAlaLysT hrGluAsnPh 967

TAAGATAGCA TTTTACTTGT CCCATCAGAG GCTCATGGAT GAAAAAGTTG 2950
eLysIleAla PheTyrLeuS erHisGlnAr gLeuMetAsp GluLysValA 984

ATGTGATTAT CTTGATATTT CTTGAGAAGC CTTTTCAGAA GTCCAAGTTC 3000
spValIleIl eLeuIlePhe LeuGluLysP roPheGlnLy sSerLysPhe 1000

CTCCAGCTCC GGAAAAGGCT CTGTGGGAGT TCTGTCCTTG AGTGGCCAAC 3050
LeuGlnLeuA rgLysArgLe uCysGlySer SerValLeuG luTrpProTh 1017

AAACCCGCAA GCTCACCCAT ACTTCTGGCA GTGTCTAAAG AACGCCCTGG 3100
rAsnProGln AlaHisProT yrPheTrpGl nCysLeuLys AsnAlaLeuA 1034

CCACAGACAA TCATGTGGCC TATAGTCAGG TGTTC AAGGA AACGGTCTAG

laThrAspAs nHisValAla TyrSerGlnV alPheLysGl uThrValSto 1050

CCCTTCTTTG CAAAACACAA CTGCCTAGTT TACCAAGGAG AGGCCTGGCT *50
GTTTAAATTG TTTTCATATA TATCACACCA AAAGCGTGTT TTGAAATTCT *100
TCAAGAAATG AGATTGCCCA TATTTAGGG GAGCCACCAA CGTCTGTCAC *150
AGGAGTTGGA AAGATGGGGT TTATATAATG CATCAAGTCT TCTTTCTTAT *200
CTCTCTGTGT CTCTATTTGC ACTTGAGTCT CTCACCTCAG CTCCTGTAAA *250
AGAGTGGCAA GTAAAAACA TGGGGCTCTG ATTCTCCTGT AATTGTGATA *300
ATTAAATATA CACACAATCA TGACATTGAG AAGAACTGCA TTTCTACCCT *350
TAAAAAGTAC TGGTATATAC AGAAATAGGG TTAAAAAAA CTCAAGCTCT *400
CTCTATATGA GACCAAAATG TACTAGAGTT AGTTTAGTGA AATAAAAAAC *450
CAGTCAGCTG GCCGGGCATG GTGGCTCATG CTTGTAATCC CAGCACTTTG *500
GGAGGCCGAG GCAGGTGGAT CACGAGGTCA GGAGTTTGAG ACCAGTCTGG *550
CCAACATGGT GAAACCCCGT CTGTACTAAA AATACAAAAA TTAGCTGGGC *600
GTGGTGGTGG GTGCCGTGTA TCCCAGCTAC TTGGGAGGCT GAGGCAGGAG *650
AATCGCTTGA ACCCGGGAGG TGGAGGTGGC AGTGAGCCGA GATCACGCCA *700
CTGCAATGCA GCCCGGGCAA CAGAGCTAGA CTGTCTCAA AGAACAAAAA *750
AAAAAAAACA CAAAAAACT CAGTCAGCTT CTTAACCAAT TGCTTCCGTG *800
TCATCCAGGG CCCCATTTCTG TGCAGATTGA GTGTGGGCAC CACACAGGTG *850
GTTGCTGCTT CAGTGCTTCC TGCTCTTTTT CTTGGGCCT GCTTCTGGGT *900
TCCATAGGGA AACAGTAAGA AAGAAAGACA CATCCTTACC ATAAATGCAT *950
ATGGTCCACC TACAAATAGA AAAATATTTA AATGATCTGC CTTTATACAA *1000
AGTGATATTC TCTACCTTTG ATAATTTACC TGCTTAAATG TTTTATCTG *1050
CACTGCAAAG TACTGTATCC AAAGTAAAT TTCCTCATCC AATATCTTTC *1100
AAACTGTTTT GTTAACTAAT GCCATATATT TGTAAGTATC TGCACACTTG *1150
ATACAGCAAC GTTAGATGGT TTTGATGGTA AACCTAAAG GAGGACTCCA *1200
AGAGTGTGTA TTTATTTATA GTTTTATCAG AGATGACAAT TATTTGAATG *1250
CCAATTATAT GGATTCCTTT CATTTTTTGC TGGAGGATGG GAGAAGAAAC *1300

CAAAGTTTAT AGACCTTCAC ATTGAGAAAG CTTCAGTTTT GAACTTCAGC *1350
TATCAGATTC AAAACAACA GAAAGAACCA AGACATTCTT AAGATGCCTG *1400
TACTTTCAGC TGGGTATAAA TTCATGAGTT CAAAGATTGA AACCTGACCA *1450
ATTTGCTTTA TTTCATGGAA GAAGTGATCT ACAAAGGTGT TTGTGCCATT *1500
TGGAAAACAG CGTGCAATGG TTCAAGCCTT AGATTGGCGA TGTCGTATTT *1550
TCCTCACGTG TGGCAATGCC AAAGGCTTTA CTTTACCTGT GAGTACACAC *1600
TATATGAATT ATTTCCAACG TACATTTAAT CAATAAGGGT CACAAATTCC *1650
CAAATCAATC TCTGGAATAA ATAGAGAGGT AATTAAATTG CTGGAGCCAA *1700
CTA

TLR7 (NM_016562.4) - cDNA + Protein - 2026-05-25

