TLR8 cDNA Clone – Toll-Like Receptor 8 (Human)

PRODUCT OVERVIEW

Product Name	TLR8, cDNA Clone
Full Product Name	TLR8 cDNA Clone
Product Gene Name	TLR8 cdna clone
Sequence	ATGGAAAACA TGTTCCTTCA GTCGTCAATG CTGACCTGCA TTTTCCTGCT AATATCTGGT TCCTGTGAGT TATGCGCCGA AGAAAATTTT TCTAGAAGCT ATCCTTGTGA TGAGAAAAAG CAAAATGACT CAGTTATTGC AGAGTGCAGC AATCGTCGAC TACAGGAAGT TCCCCAAACG GTGGGCAAAT ATGTGACAGA ACTAGACCTG TCTGATAATT TCATCACACA CATAACGAAT GAATCATTTC AAGGGCTGCA AAATCTCACT AAAATAAATC TAAACCACAA CCCCAATGTA CAGCACCAGA ACGGAAATCC CGGTATACAA TCAAATGGCT TGAATATCAC AGACGGGGCA TTCCTCAACC TAAAAAACCT AAGGGAGTTA CTGCTTGAAG ACAACCAGTT ACCCCAAATA CCCTCTGGTT TGCCAGAGTC TTTGACAGAA CTTAGTCTAA TTCAAAACAA TATATACAAC ATAACTAAAG AGGGCATTTC AAGACTTATA AACTTGAAAA ATCTCTATTT GGCCTGGAAC TGCTATTTTA ACAAAGTTTG CGAGAAAACT AACATAGAAG ATGGAGTATT TGAAACGCTG ACAAATTTGG AGTTGCTATC ACTATCTTTC AATTCTCTTT CACACGTGCC ACCCAAACTG CCAAGCTCCC TACGCAAACT TTTTCTGAGC AACACCCAGA TCAAATACAT TAGTGAAGAA GATTTCAAGG GATTGATAAA TTTAACATTA CTAGATTTAA GCGGGAACTG TCCGAGGTGC TTCAATGCCC CATTTCCATG CGTGCCTTGT GATGGTGGTG CTTCAATTAA TATAGATCGT TTTGCTTTTC AAAACTTGAC CCAACTTCGA TACCTAAACC TCTCTAGCAC TTCCCTCAGG AAGATTAATG CTGCCTGGTT TAAAAATATG CCTCATCTGA AGGTGCTGGA TCTTGAATTC AACTATTTAG TGGGAGAAAT AGCCTCTGGG GCATTTTTAA CGATGCTGCC CCGCTTAGAA ATACTTGACT TGTCTTTTAA CTATATAAAG GGGAGTTATC CACAGCATAT TAATATTTCC AGAAACTTCT CTAAACTTTT GTCTCTACGG GCATTGCATT TAAGAGGTTA TGTGTTCCAG GAACTCAGAG AAGATGATTT CCAGCCCCTG ATGCAGCTTC CAAACTTATC GACTATCAAC TTGGGTATTA ATTTTATTAA GCAAATCGAT TTCAAACTTT TCCAAAATTT CTCCAATCTG GAAATTATTT ACTTGTCAGA AAACAGAATA TCACCGTTGG TAAAAGATAC CCGGCAGAGT TATGCAAATA GTTCCTCTTT TCAACGTCAT ATCCGGAAAC GACGCTCAAC AGATTTTGAG TTTGACCCAC ATTCGAACTT TTATCATTTC ACCCGTCCTT TAATAAAGCC ACAATGTGCT GCTTATGGAA AAGCCTTAGA TTTAAGCCTC AACAGTATTT TCTTCATTGG GCCAAACCAA TTTGAAAATC TTCCTGACAT TGCCTGTTTA AATCTGTCTG CAAATAGCAA TGCTCAAGTG TTAAGTGGAA CTGAATTTTC AGCCATTCCT CATGTCAAAT ATTTGGATTT GACAAACAAT AGACTAGACT TTGATAATGC TAGTGCTCTT ACTGAATTGT CCGACTTGGA AGTTCTAGAT CTCAGCTATA ATTCACACTA TTTCAGAATA GCAGGCGTAA CACATCATCT AGAATTTATT CAAAATTTCA CAAATCTAAA AGTTTTAAAC TTGAGCCACA ACAACATTTA TACTTTAACA GATAAGTATA ACCTGGAAAG CAAGTCCCTG GTAGAATTAG TTTTCAGTGG CAATCGCCTT GACATTTTGT GGAATGATGA TGACAACAGG TATATCTCCA TTTTCAAAGG TCTCAAGAAT CTGACACGTC TGGATTTATC CCTTAATAGG CTGAAGCACA TCCCAAATGA AGCATTCCTT AATTTGCCAG CGAGTCTCAC TGAACTACAT ATAAATGATA ATATGTTAAA GTTTTTTAAC TGGACATTAC TCCAGCAGTT TCCTCGTCTC GAGTTGCTTG ACTTACGTGG AAACAAACTA CTCTTTTTAA CTGATAGCCT ATCTGACTTT ACATCTTCCC TTCGGACACT GCTGCTGAGT CATAACAGGA TTTCCCACCT ACCCTCTGGC TTTCTTTCTG AAGTCAGTAG TCTGAAGCAC CTCGATTTAA GTTCCAATCT GCTAAAAACA ATCAACAAAT CCGCACTTGA AACTAAGACC ACCACCAAAT TATCTATGTT GGAACTACAC GGAAACCCCT TTGAATGCAC CTGTGACATT GGAGATTTCC GAAGATGGAT GGATGAACAT CTGAATGTCA AAATTCCCAG ACTGGTAGAT GTCATTTGTG CCAGTCCTGG GGATCAAAGA GGGAAGAGTA TTGTGAGTCT GGAGCTAACA ACTTGTGTTT CAGATGTCAC TGCAGTGATA TTATTTTTCT TCACGTTCTT TATCACCACC ATGGTTATGT TGGCTGCCCT GGCTCACCAT TTGTTTTACT GGGATGTTTG GTTTATATAT AATGTGTGTT TAGCTAAGGT AAAAGGCTAC AGGTCTCTTT CCACATCCCA AACTTTCTAT GATGCTTACG TTTCTTATGA CACCAAAGAT GCCTCTGTTA CTGACTGGGT GATAAATGAG CTGCGCTACC ACCTTGAAGA GAGCCGAGAC AAAAACGTTC TCCTTTGTCT AGAGGAGAGG GATTGGGACC CGGGATTGGC CATCATCGAC AACCTCATGC AGAGCATCAA CCAAAGCAAG AAAACAGTAT TTGTTTTAAC CAAAAAATAT GCAAAAAGCT GGAACTTTAA AACAGCTTTT TACTTGGCTT TGCAGAGGCT AATGGATGAG AACATGGATG TGATTATATT TATCCTGCTG GAGCCAGTGT TACAGCATTC TCAGTATTTG AGGCTACGGC AGCGGATCTG TAAGAGCTCC ATCCTCCAGT GGCCTGACAA CCCGAAGGCA GAAGGCTTGT TTTGGCAAAC TCTGAGAAAT GTGGTCTTGA CTGAAAATGA TTCACGGTAT AACAATATGT ATGTCGATTC CATTAAGCAA TACTAA
Molecular Weight	121,764 Da
OMIM	300366

Vector	pENTR223.1
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for TLR8 cdna clone	MBS1269744 is a cDNA clone targeting TLR8.
Other Notes	Small volumes of TLR8 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TLR8. It may not necessarily be applicable to this product.

NCBI GI #	72533595
NCBI GeneID	51311
NCBI Accession #	BC101075
UniProt Secondary Accession #	Q495P4; Q6UXL6; Q9NYG9; B3Y654; D1CS70; D1CS76
UniProt Related Accession #	Q9NR97
NCBI Official Full Name	Homo sapiens toll-like receptor 8, mRNA
NCBI Official Synonym Full Names	toll like receptor 8
NCBI Official Symbol	TLR8
NCBI Official Synonym Symbols	CD288
UniProt Protein Name	Toll-like receptor 8
UniProt Synonym Protein Names	CD_antigen: CD288
Protein Family	Toll-like receptor
UniProt Gene Name	TLR8
UniProt Entry Name	TLR8_HUMAN
NCBI Protein Information	toll-like receptor 8
NCBI Summary for TLR8	The protein encoded by this gene is a member of the Toll-like receptor (TLR) family which plays a fundamental role in pathogen recognition and activation of innate immunity. TLRs are highly conserved from Drosophila to humans and share structural and functional similarities. They recognize pathogen-associated molecular patterns (PAMPs) that are expressed on infectious agents, and mediate the production of cytokines necessary for the development of effective immunity. The various TLRs exhibit different patterns of expression. This gene is predominantly expressed in lung and peripheral blood leukocytes, and lies in close proximity to another family member, TLR7, on chromosome X. [provided by RefSeq, Jul 2008]

UniProt Comments for TLR8	TLR8: Key component of innate and adaptive immunity. TLRs (Toll-like receptors) control host immune response against pathogens through recognition of molecular patterns specific to microorganisms. Acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. Belongs to the Toll-like receptor family. Protein type: Membrane protein, integral; Receptor, misc. Chromosomal Location of Human Ortholog: Xp22 Cellular Component: endoplasmic reticulum membrane; endosome membrane; Golgi membrane; integral to membrane Molecular Function: DNA binding; double-stranded RNA binding; RNA binding; single-stranded RNA binding Biological Process: defense response to virus; I-kappaB kinase/NF-kappaB cascade; immunoglobulin mediated immune response; positive regulation of innate immune response; positive regulation of interferon-alpha biosynthetic process; positive regulation of interferon-beta biosynthetic process; positive regulation of interferon-gamma biosynthetic process; positive regulation of interleukin-8 biosynthetic process; response to virus; toll-like receptor 9 signaling pathway; toll-like receptor signaling pathway
Research Articles on TLR8	**1.** TLR8 polymorphisms seem to be related to non-progression of liver fibrosis in HIV/HCV coinfected patients, particularly in males and those patients infected with GT1.
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