CLEC7A cDNA Clone – C-Type Lectin Domain Family 7, Member A (Human)

PRODUCT OVERVIEW

Product Name	CLEC7A, cDNA Clone
Full Product Name	CLEC7A cDNA Clone
Product Gene Name	CLEC7A cdna clone
Sequence	atggaatatc atcctgattt agaaaatttg gatgaagatg gatatactca attacacttc gactctcaaa gcaataccag gatagctgtt gtttcagaga aaggatcgtg tgctgcatct cctccttggc gcctcattgc tgtaattttg ggaatcctat gcttggtaat actggtgata gctgtggtcc tgggtaccat gggggttctt tccagccctt gtcctcctaa ttggattata tatgagaaga gctgttatct attcagcatg tcactaaatt cctgggatgg aagtaaaaga caatgctggc aactgggctc taatctccta aagatagaca gctcaaatga attggtaagt gtagacttct gttatgatta tctgtggtgt gtatcctga
Molecular Weight	13,138 Da
OMIM	606264
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CLEC7A cdna clone	MBS1273468 is a cDNA clone targeting CLEC7A.
Other Notes	Small volumes of CLEC7A 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 CLEC7A. It may not necessarily be applicable to this product.

NCBI GI #	47940526
NCBI GeneID	64581
NCBI Accession #	BC071746
UniProt Secondary Accession #	Q6IPS7; Q96D32; Q96DR9; Q96LD3; Q96PA4; Q96PA5; Q96PA6; B2R861; B7Z494; B7Z5A9; B7Z5B9
UniProt Related Accession #	Q9BXN2
NCBI Official Full Name	Homo sapiens C-type lectin domain family 7, member A, mRNA
NCBI Official Synonym Full Names	C-type lectin domain family 7 member A
NCBI Official Symbol	CLEC7A
NCBI Official Synonym Symbols	BGR; CD369; CANDF4; SCARE2; DECTIN1; CLECSF12
UniProt Protein Name	C-type lectin domain family 7 member A
UniProt Synonym Protein Names	Beta-glucan receptor; C-type lectin superfamily member 12; Dendritic cell-associated C-type lectin 1; DC-associated C-type lectin 1; Dectin-1
Protein Family	C-type lectin domain family
UniProt Gene Name	CLEC7A
UniProt Synonym Gene Names	BGR; CLECSF12; DECTIN1; DC-associated C-type lectin 1; Dectin-1

UniProt Entry Name	CLC7A_HUMAN
NCBI Protein Information	C-type lectin domain family 7 member A
NCBI Summary for CLEC7A	This gene encodes a member of the C-type lectin/C-type lectin-like domain (CTL/CTLD) superfamily. The encoded glycoprotein is a small type II membrane receptor with an extracellular C-type lectin-like domain fold and a cytoplasmic domain with an immunoreceptor tyrosine-based activation motif. It functions as a pattern-recognition receptor that recognizes a variety of beta-1,3-linked and beta-1,6-linked glucans from fungi and plants, and in this way plays a role in innate immune response. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. This gene is closely linked to other CTL/CTLD superfamily members on chromosome 12p13 in the natural killer gene complex region. [provided by RefSeq, Jul 2008]
UniProt Comments for CLEC7A	dectin-1: Lectin that functions as pattern receptor specific for beta-1,3-linked and beta-1,6-linked glucans, such as cell wall constituents from pathogenic bacteria and fungi. Necessary for the TLR2-mediated inflammatory response and for TLR2-mediated activation of NF-kappa-B. Enhances cytokine production in macrophages and dendritic cells. Mediates production of reactive oxygen species in the cell. Mediates phagocytosis of C.albicans conidia. Binds T-cells in a way that does not involve their surface glycans and plays a role in T-cell activation. Stimulates T-cell proliferation. Up-regulated during differentiation from monocytes into dendritic cells. Isoform 5 interacts with RANBP9. 8 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 12p13.2 Cellular Component: integral to membrane; intracellular membrane-bound organelle; nucleoplasm; plasma membrane Molecular Function: carbohydrate binding; pattern recognition receptor activity; protein binding Biological Process: carbohydrate mediated signaling; cell recognition; phagocytosis, recognition; stimulatory C-type lectin receptor signaling pathway; T cell activation Disease: Aspergillosis, Susceptibility To; Candidiasis, Familial, 4
Research Articles on CLEC7A	**1.** TREM-1 and Dectin-1 function concurrently in the corneal innate immune response by regulating inflammatory cytokine expression in fungal keratitis.
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