

Product datasheet for SC202788

CD19 (NM_001770) Human 3' UTR Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	3' UTR Clones
Product Name:	CD19 (NM_001770) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	CD19
Synonyms:	B4; CVID3
ACCN:	NM_001770
Insert Size:	247 bp
Insert Sequence:	<pre>>SC202788 3'UTR clone of NM_001770 The sequence shown below is from the reference sequence of NM_001770. The complete sequence of this clone may contain minor differences, such as SNPs. Blue=Stop Codon Red=Cloning site GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC GGCCGCATGGGCACCTGGAGCACCAGGTGATCCTCAGGTGGCCAGCCTGGATCTCCTCAAGTCCCCAAG ATTCACACCTGAACTCTGAAGCCTCGAGCAGCAGCAGATGATGCCAACCTCTGGAGCAATGTTGCTTA GGATGTGGCATGTGTGTAGTGTGTGTGTGTGTGTGTGTGT</pre>
Restriction Sites:	Sgfl-Mlul
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	<u>NM 001770.6</u>



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Summary: This gene encodes a member of the immunoglobulin gene superfamily. Expression of this cell surface protein is restricted to B cell lymphocytes. This protein is a reliable marker for pre-B cells but its expression diminishes during terminal B cell differentiation in antibody secreting plasma cells. The protein has two N-terminal extracellular Ig-like domains separated by a non-Ig-like domain, a hydrophobic transmembrane domain, and a large C-terminal cytoplasmic domain. This protein forms a complex with several membrane proteins including complement receptor type 2 (CD21) and tetraspanin (CD81) and this complex reduces the threshold for antigen-initiated B cell activation. Activation of this B-cell antigen receptor complex activates the phosphatidylinositol 3-kinase signalling pathway and the subsequent release of intracellular stores of calcium ions. This protein is a target of chimeric antigen receptor (CAR) T-cells used in the treatment of lymphoblastic leukemia. Mutations in this gene are associated with the disease common variable immunodeficiency 3 (CVID3) which results in a failure of B-cell differentiation and impaired secretion of immunoglobulins. CVID3 is characterized by hypogammaglobulinemia, an inability to mount an antibody response to antigen, and recurrent bacterial infections. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2020]

Locus ID:	930
MW:	8.9

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