

Product datasheet for **SC119837**

CD53 (NM_000560) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD53 (NM_000560) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD53
Synonyms:	MOX44; TSPAN25
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_000560, the custom clone sequence may differ by one or more nucleotides

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ATGGGCATGAGTAGCTTGAAACTGCTGAAGTATGTCCTGTTTTCTTCAACTTGCTCTTTGGATCTGTG
GCTGCTGCATTTTGGCTTTGGGATCTACCTGCTGATCCACAACAACCTTCGGAGTGCTCTTCCATAACCT
CCCCTCCCTCACGCTGGCAATGTGTTTGTTCATCGTGGGCTCTATTATCATGGTAGTTGCCTTCTGGGG
TGCATGGGCTCTATCAAGGAAAACAAGTGTCTGCTTATGTCGTTCTTCATCCTGCTGCTGATTATCCTCC
TTGCTGAGGTGACCTTGCCATCCTGCTCTTTGTATATGAACAGAAGCTGAATGAGTATGTGGCTAAGGG
TCTGACCGACAGCATCCACCGTTACCACTCAGACAATAGCACCAAGGCAGCGTGGGACTCCATCCAGTCA
TTTCTGCAGTGTGTGGTATAAATGGCAGGAGTGATTGGACCAGTGGCCACCAGCATCTTGCCCTCAG
ATCGAAAAGTGGAGGGTTGCTATGCGAAAGCAAGACTGTGGTTTCATTCCAATTTCTGTATATCGGAAT
CATCACCATCTGTGTATGTGTGATTGAGGTGTTGGGGATGTCCTTGCCTGACCTGAACTGCCAGATT
GACAAAACCAGCCAGACCATAGGGCTATGA
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5' Read Nucleotide Sequence: >OriGene 5' read for NM_000560 unedited
NNCCGCGTTACAGATTTGTAATACGACTCACTATAGGGCGCNCGCGAATTCGCACGAGG
CGGATATCTGTGTACCAGCCTTGTCTCGGCCACCTCAAGGATAATCACTAAATCTGCC
GAAAGGACTGAGGAACGGTGCCTGGAAAAGGGCAAGAATACACGGCATGGGCATGAGTA
GCTTGAAGTCTGAAGTATGTCCTGTTTTCTCAACTTGCTCTTTGGATCTGTGGCT
GCTGCATTTTGGGCTTTGGGATCTACCTGCTGATCCACAACAACCTCGGAGTGCTCTTCC
ATAACCTCCCCCTCCCTCAGCTGGGCAATGTGTTTGTTCATCGTGGGCTCTATTATCATGG
TAGTTGCCTTCTGGGCTGCATGGGCTCTATCAAGGAAAACAAGTGTCTGCTTATGTCGT
TCTTCATCCTGCTGCTGATTATCCTCCTTGCTGAGGTGACCTTGCCATCCTGCTCTTTG
TATATGAACAGAGCTGAATGAGTATGTGGCTAAGGGTCTGACCGACAGCATCCACCGTT
ACCACTCAGACAATAGCACCAAGGCAGCGTGGGACTCCATCCAGTCATTTCTGCAGTGTT
GTGGTATAAATGGCACGAGTGATTGGACCAGTGGCCACCAGCATCTTGCCCTCAGATC
GAANAGTGGAGGGTTGCTATGCGAAAGCAAGACTGTGGTTTCATTCCAATTTCTGTATA
TCGGAATCATACCATCTGTGTATGTGTATTGAGGTGTGGGGGATGCCTTTGCACTG
ACCCTNGACTGCCAGATTGANCAAACCAGCCAGACCATANGGCTATGATCTGCAGTAGTC
CTGTGGTGAAGAGACTTGTTTCATCTCCAGAAATGCAAACCATTATAGCATGAAGCCCT
ACATGATCACTGC

3' Read Nucleotide Sequence: >OriGene 3' read for NM_000560 unedited
GCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGAGATAATAAACTTTTATTTATTGAA
GAGTAAATAGTACATTAACAAAATCTTATCTGATAGAGAGATAATACCAGAAGTCTTCT
TACTGTGATTATCAGCTAAGTGACTGGTTGAAATCAGGATATAAATCACTGGATAGTTTT
TTTCTGGAAAGACTTAGAACACATCAATAAGGCCCTCTAATAAAGAAATTGAAATGAACT
CTTGCCCTTTGGAGAAAGAGAACTGTGTAATTCCTGTAGCCAGGGCACTTATTCAAAGAG
AAACAGAGGGTTGTGACAATGGTCCAGTGAGCCTGGCCCCAGAACTCCCTTCAACTAGTC
TCTTGCTTGACTTTGGGAGAAGACTGGGCATTATTTAGAGGCTGGAGACTAATTCGACA
ATGGGAAGATGCAAAAATTCATATCCTGGGTTACCCTTTGATGTTGGGCCATTAATCC
AGTTTGTCTTTGCCTCTCTTGTCTAAAAGATGCTCAGATATTAGTTTCACCACTTTGAGA
GACATGGCTGCTGCCGTGAGTGAGTGAAGATTGCTTGTCTGCTGAGATGGGATGTGCC
TGGCCCAACCCCACTTCTCTGGTTGTATTAGACAGGGACCTAAAAGGGAAAGGATGGG
AGGAAGATCATCTGCAGTGATCATGTAAGGCTTCATGCTATAAATGCTCTTGCAATTTT
GGAGATGAAACAAGCCTCTTACCACAGGACTACTGCAGATCATAGCCCTATGTTCTGCC
TGGTTTGGTCACTNCTGGCAGTTCAAGTTCAGTGCCAAGGAAATCCAACACCTCAATACA
CTTACCACGATGTGGATGATTCCAATCCAGGAAATTGGATGAAACCACGCTTGGTTTG
CAAATCACCTTACTTTTCAATCTAGNGCGAGATGCTGGGGGCCACTGTCCAATCACGGG
CCTTTTACCAACCCCGAATGACGTAGGGTCCCCCTGCTCGTGCTTGGTGG

Restriction Sites: NotI-NotI

ACCN: NM_000560

Insert Size: 1530 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

RefSeq: [NM_000560.2](#), [NP_000551.1](#)

RefSeq Size: 1567 bp

RefSeq ORF: 660 bp

Locus ID: 963

UniProt ID: [P19397](#)

Domains: transmembrane4

Protein Families: Transmembrane

Gene Summary: The protein encoded by this gene is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. This encoded protein is a cell surface glycoprotein that is known to complex with integrins. It contributes to the transduction of CD2-generated signals in T cells and natural killer cells and has been suggested to play a role in growth regulation. Familial deficiency of this gene has been linked to an immunodeficiency associated with recurrent infectious diseases caused by bacteria, fungi and viruses. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016]

Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. Variants 1 and 2 encode the same protein.