

Product datasheet for **SC301769**

CD239 (BCAM) (NM_001013257) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD239 (BCAM) (NM_001013257) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD239
Synonyms:	AU; CD239; LU; MSK19
Vector:	<u>pCMV6 series</u>



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_001013257, the custom clone sequence may differ by one or more nucleotides

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ATGGAGCCCCCGACGCACCGGCCAGGCGCGCGGGCCCCGCGGCTGCTGTTGCTCGCA
GTCCTGCTGGCGGCGCACCCAGATGCCAGGCGGAGGTGCGCTTGTGTACCCCGCTG
GTGGAGGTGATGCGAGGAAAGTCTGTCAATTCTGGACTGCACCCCTACGGGAACCCACGAC
CATTATATGCTGGAATGGTTCCTTACCGACCGCTCGGGAGCTCGCCCCCGCTAGCCTCC
GCTGAGATGCAGGGCTCTGAGCTCCAGGTCACAATGCACGACACCCGGGGCCGAGTCCC
CCATACCAGTGGACTCCCAGGGGCGCCTGGTGTGGCTGAGGCCAGGTGGGCGACGAG
CGAGACTACGTGTGCGTGGTGAAGGCGAGGGCGGCAAGCACTGCTGAGGCCACTGCGCGG
CTCAACGTGTTTGCAAAGCCAGAGGCCACTGAGGTCTCCCCAACAAAGGGACACTGTCT
GTGATGGAGGACTCTGCCAGGAGATCGCCACCTGCAACAGCCGGAACGGGAACCCGGCC
CCCAAGATCACGTGGTATCGCAACGGGACGCGCCTGGAGGTGCCCGTAGAGATGAACCA
GAGGGCTACATGACCAGCCGACGGTCCGGGAGGCCTCGGGCCTGCTCTCCCTACCAGC
ACCCTTACTGCGGCTCCGCAAGGATGACCGAGACGCCAGCTTCCACTGCGCCGCCAC
TACAGCCTGCCGAGGGCCGACGGCCGCTGGACAGCCACCTTCCACTCACCTG
CACTATCCACGGAGCAGTGCAGTTCTGGGTGGGACGCCGTCACCCAGCAGGCTGG
GTACGCGAGGGTGACACTGTCCAGCTGCTGCGGGGGGACGGCAGCCCCAGCCCGGAG
TATACGCTTTTCCGCTTTCAGGATGAGCAGGAGGAAGTGTGAATGTGAATCTCGAGGGG
AACTTGACCTGGAGGGAGTGACCCGGGGCCAGAGCGGGACCTATGGCTGCAGAGTGGAG
GATTACGACGCGGCAGATGACGTGCAGCTCTCCAAGACGCTGGAGCTGCGCGTGGCCTAT
CTGGACCCCTGGAGCTCAGCGAGGGGAAGGTGCTTTCCTTACCTCTAACAGCAGTGA
GTCGTGAACTGCTCCGTGCACGGCCTGCCACCCCTGCCCTACGCTGGACCAAGGACTCC
ACTCCCCTGGGGATGGCCCCATGCTGTGCTCAGTTCTATCACCTTCGATTCCAATGGC
ACCTACGTATGTGAGGCCTCCCTGCCACAGTCCCGTCTCAGCCGCACCCAGAATTC
ACGCTGCTGGTCCAAGGCTCGCCAGAGTAAAGACAGCGGAAATAGAGCCCAAGGAGAT
GGCAGCTGGAGGGAAGGAGAGCAAGTCACACTCATCTGCTGCTGCCCCGCGGCCATCCAGAC
CCCAAACCTCAGCTGGAGCCAATTGGGGGCGAGCCCGCAGAGCCAATCCCCGGACGGCAG
GGTTGGGTGAGCAGCTCTGACCCTGAAAGTGACCAGCGCCCTGAGCCGCGATGGCATC
TCCTGTGAAGCCTCAACCCCCACGGGAACAAGCGCCATGTCTTCCACTTCGGCACCGTG
AGCCCCAGACCTCCCAGGCTGGAGTGGCCGTCATGGCCGTGGCCGTGAGCGTGGGCCTC
CTGCTCCTCGTGTGCTGCTTCTACTGCGTGAGACGCAAGGGGGCCCTGCTGCCGC
CAGCGGGGGGAGAAGGGGCTCCGTGA

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- Restriction Sites:** Please inquire
- ACCN:** NM_001013257
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001013257.1](#), [NP_001013275.1](#)

RefSeq Size: 2434 bp

RefSeq ORF: 1767 bp

Locus ID: 4059

UniProt ID: [P50895](#)

Cytogenetics: 19q13.32

Protein Families: Druggable Genome, Transmembrane

Gene Summary: This gene encodes Lutheran blood group glycoprotein, a member of the immunoglobulin superfamily and a receptor for the extracellular matrix protein, laminin. The protein contains five extracellular immunoglobulin domains, a single transmembrane domain, and a short C-terminal cytoplasmic tail. This protein may play a role in epithelial cell cancer and in vaso-occlusion of red blood cells in sickle cell disease. Polymorphisms in this gene define some of the antigens in the Lutheran system and also the Auberger system. Inactivating variants of this gene result in the recessive Lutheran null phenotype, Lu(a-b-), of the Lutheran blood group. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2012]

Transcript Variant: This variant (2) includes an additional segment in its 3' coding region, which results in an early stop codon, compared to variant 1. The encoded isoform (2) is shorter at the C-terminus, compared to isoform 1. The full-length nature of this variant is supported by data in PMIDs 8781446 and 9192786. Sequence Note: This RefSeq record represents the LU*0010101 allele. This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments. CCDS Note: This CCDS ID represents the BCAM transcript variant described in PMIDs 8781446 and 9192786. It encodes the C-terminally truncated 78 kDa isoform described in PMIDs 3810828 and 7777537. The transcript is a candidate for nonsense-mediated mRNA decay (NMD), but the protein is represented because this is the only currently available transcript variant that can encode the 78 kDa isoform. This isoform was detected by immunoblotting in PMID:3810828, and the authors of PMID:7777537 indicate that this isoform was not detected when C-terminal antibodies were used, but it was when antibodies from the region in common with the 85 kDa isoform (CCDS12644.1 representation) were used, thereby suggesting that this C-terminally truncated isoform is valid.