

## Product datasheet for **SC326503**

### CD133 (PROM1) (NM\_001145848) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD133 (PROM1) (NM_001145848) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD133
Synonyms:	AC133; CD133; CORD12; MCDR2; MSTP061; PROML1; RP41; STGD4
Vector:	<u>pCMV6 series</u>



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001145848, the custom clone sequence may differ by one or more nucleotides

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ATGGCCCTCGTACTCGGCTCCCTGTTGCTGCTGGGGCTGTGCGGGAACCTCTTTTCAGGA
GGGCAGCCTTCATCCACAGATGCTCCTAAGGCTTGAATTATGAATTGCCTGCAACAAAT
TATGAGACCCAAGACTCCCATAAAGCTGGACCCATTGGCATTCTCTTTGAACTAGTGCAT
ATCTTTCTCTATGTGGTACAGCCGCGTGATTTCCAGAAGATACTTTGAGAAAATCTTA
CAGAAGGCATATGAATCCAAAATTGATTATGACAAGATTGTCTACTATGAAGCAGGGATT
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TTTTGTATGTGCTGTGCTGTAACAAATGTGGTGGAGAAATGCACCAGCGACAGAAGGAA
AATGGGCCCTTCTGAGGAAATGCTTTGCAATCTCCCTGTTGGTGATTTGTATAATAATA
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AGTCGGAACCTGGCAGATAGCAATTTCAAGGACTTGCGAACCTCTTGAATGAACTCCA
GAGCAAATCAAATATATATTGGCCAGTACAACACTACCAAGGACAAGGCGTTCACAGAT
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AGTCTGACCAGCGTGAAAACCTAGCTGCGGTCTCTCAATGACCCCTCTGTGCTTGGTG
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TTTGCATATGATCTAGAAGCAAAAGCAACAGTTTGGCCCCAGGAAATTTGAGGAACTCC
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CAATCACTGAGCACTCTATACCAAGCGTCAAGATACTTCAACGCACAGGGAATGGATTG
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GATGTTGAACTATACCCATGAAAAATGAAAAATGGTAATAATGGTTATCATAAAGAT
CATGTATATGGTATTCACAATCCTGTTATGACAAGCCCATCACAACAT

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**Restriction Sites:** Please inquire  
**ACCN:** NM\_001145848

<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001145848.1</a></u> , <u><a href="#">NP_001139320.1</a></u>
<b>RefSeq Size:</b>	3973 bp
<b>RefSeq ORF:</b>	2571 bp
<b>Locus ID:</b>	8842
<b>UniProt ID:</b>	<u><a href="#">O43490</a></u>
<b>Cytogenetics:</b>	4p15.32
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
<b>Gene Summary:</b>	<p>This gene encodes a pentaspan transmembrane glycoprotein. The protein localizes to membrane protrusions and is often expressed on adult stem cells, where it is thought to function in maintaining stem cell properties by suppressing differentiation. Mutations in this gene have been shown to result in retinitis pigmentosa and Stargardt disease. Expression of this gene is also associated with several types of cancer. This gene is expressed from at least five alternative promoters that are expressed in a tissue-dependent manner. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2009]</p> <p>Transcript Variant: This variant (3) represents one of several alternative promoters and 5' UTRs, and lacks an alternative in-frame exon in the 5' coding region, compared to variant 1. The resulting isoform (2), also known as s1, lacks a 9 aa segment near the N-terminus, compared to isoform 1. Both variants 2 and 3 encode the same isoform.</p>