

Product datasheet for **SC326626**

CD133 (PROM1) (NM_001145851) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD133 (PROM1) (NM_001145851) Human Untagged Clone
Tag:	Tag Free
Symbol:	PROM1
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_001145851, the custom clone sequence may differ by one or more nucleotides

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ATGGCCCTCGTACTCGGCTCCCTGTTGCTGCTGGGGCTGTGCGGGAACCTCTTTTCAGGA
GGGCAGCCTTCATCCACAGATGCTCCTAAGGCTTGAATTATGAATTGCCTGCAACAAAT
TATGAGACCCAAGACTCCCATAAAGCTGGACCCATTGGCATTCTCTTTGAACTAGTGCAT
ATCTTTCTCTATGTGGTACAGCCGCTGATTTCCAGAAGATACTTTGAGAAAATTTCTTA
CAGAAGGCATATGAATCCAAAATTGATTATGACAAGATTGTCTACTATGAAGCAGGGATT
ATTCTATGCTGTGCTGGGGCTGCTGTTATTATTCTGATGCCTCTGGTGGGGTATTTCT
TTTTGTATGTGCTGTGCTGTAACAAATGTGGTGGAGAAATGCACCAGCGACAGAAGGAA
AATGGGCCCTTCTGAGGAAATGCTTTGCAATCTCCCTGTTGGTATTGTATAATAATA
AGCATTGGCATCTTCTATGGTTTTGTGGCAATCACCAGGTAAGAACCCGGATCAAAAGG
AGTCGAAACTGGCAGATAGCAATTTCAAGGACTTGCGAACCTCTTGAATGAACTCCA
GAGCAAATCAAATATATATTGGCCAGTACAACACTACCAAGGACAAGGCGTTCACAGAT
CTGAACAGTATCAATTCAGTCTAGGAGCGGAATTTCTGACCGACTGAGACCCAACATC
ATCCCTGTTCTTGATGAGATTAAGTCCATGGCAACAGCGATCAAGGAGACCAAAGAGGCG
TTGGAGAACATGAACAGCACCTTGAAGAGCTTGCACCAACAAAGTACACAGCTTAGCAGC
AGTCTGACCAGCGTGAAAACCTAGCTGCGGTCTCTCAATGACCCCTCTGTGCTTGGTG
CATCCATCAAGTGAACCTGCAACAGCATCAGATTGTCTTAAGCCAGCTGAATAGCAAC
CCTGAACTGAGGCAGCTTCCACCCGTGGATGCAGAACTTGACAACGTTAATAACGTTCTT
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AGAGTACAACGCCAAACCAGACTGTGCTAGCAGGTATCAAAAGGGTCTTGAATTCATT
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TCTGTTTTATGTTAATAACACTGAAAGTTACATCCACAGAAATTTACCTACATTGGAAGAG
TATGATTACATACTGGTGGCTGGGTGGCCTGGTCACTGCTCTCTGCTGACCCTCATCGTG
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ACACCCTACTTACTAAATGAAGACTGGGAATACTATCTCTCTGGGAAGCTATTTAATAAA
TCAAAAAATGAAGCTCACTTTTGAACAAGTTTACAGTACTGCAAAAAAATAGAGGCACT
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AATTATGACAGCTACTTGGCTCAGACTGGTAAATCCCCCGCAGGAGTGAATCTTTTATCA
TTTGCATATGATCTAGAAGCAAAAGCAACAGTTTGGCCCCAGGAAATTTGAGGAACTCC
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CAATCACTGAGCACTCTATACCAAGCGTCAAGATACTTCAACGCACAGGGAATGGATTG
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TTTGAACATTATCTGCAGTGGATCGAGTTCTCTATCAGTGAAGAAAGTGGCATCGTGCAAA
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CCCTTGAATTTGTTTGGTTTGGCATAGGAAAAGCTACTGTATTTTTACTTCCGGCTCTA
ATTTTTGCGGTAAAACCTGGCTAAGTACTATCGTCGAATGGATTCCGGAGGACGTGTACGAT
GATGTTGAAACTATACCCATGAAAAACCCATCACAACAT

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Restriction Sites: Please inquire
ACCN: NM_001145851

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:	<ol style="list-style-type: none">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:	<u>NM_001145851.1</u> , <u>NP_001139323.1</u>
RefSeq Size:	3881 bp
RefSeq ORF:	2502 bp
Locus ID:	8842
UniProt ID:	<u>O43490</u>
Cytogenetics:	4p15.32
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
Gene Summary:	<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 (5) lacks an alternate in-frame exon in the 5' coding region and a second in-frame exon in the 3' coding region, compared to variant 1. The resulting isoform (5), also known as s10, lacks an internal segment near the N-terminus and a second internal segment near the C-terminus, compared to isoform 1. The full structure of the 5' UTR for this variant has not been determined.</p>