

Product datasheet for **SC303554**

Desmocollin 1 (DSC1) (NM_004948) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Desmocollin 1 (DSC1) (NM_004948) Human Untagged Clone
Tag:	Tag Free
Symbol:	Desmocollin 1
Synonyms:	CDHF1; DG2/DG3
Vector:	<u>pCMV6 series</u>



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Fully Sequenced ORF:	>NCBI ORF sequence for NM_004948, the custom clone sequence may differ by one or more nucleotides <pre> ATGGCTCTGGCCTCTGCTGCCCCAGGGAGCATCTTCTGTAAGCAGCTCCTTTTCTCTCTC CTGGTTTTAACATTACTTTGCGATGCTTGTGAGAAAGTTTATCTTCGAGTTCTTCTCAT CTTCAGGCTGAAACACTTGTAGGCAAAGTGAATCTGGAGGAGTGTCTCAAGTCGGCCAGC CTAATCCGGTCCAGTGACCCTGCCTTCAGAAATTCTAGAAGATGGCTCAATTTACACAACA CATGACCTCATTTTGTCTTCTGAAAGGAAAAGTTTTCCATTTTCCTTTTCAGATGGTCAG AGACGGGAACAACAAGAGATAAAAGTTGTACTGTGACGAAAGAGAAAACAAGTCTCCTAAG AAGAGACATACCAAAGACACAGCCCTCAAGCGCAGCAAGAGACGATGGGCTCCTATTCCA GCTTCATTGATGGAGAACTCGTTGGGTCCATTTCCACAACACGTTTCAGCAGATCCAATCT GATGCTGCACAGAATTACACCATCTTTTATTCCATAAGTGGGCCAGGCGTGGACAAAGAA CCCTTCAATTTGTTTACATAGAGAAAGACACTGGGGATATCTTTGTACAAGGAGCATT GACCGTGAGAAATATGAACAGTTTGCCTTATATGGCTATGCAACAACGTCAGATGGCTAT GCACCAGAATATCCACTCCCTTTGATCATCAAAATTGAAGATGATAATGATAACGCCCCA TATTTTGAACACAGAGTGACTATCTTTACTGTGCCTGAAAATTGCCGATCCGGAACCTTCA GTGGGAAAAGTGACCGCCACAGACCTTGACGAACCTGACACTCTCCATACTCGTCTGAAA TATAAAATCTTACAACAATCCCAGATCATCAAAGCATTCTCCATACACCCAGATACC GGTGTCTACACCACAACCTACACCTTTTCTGGATAGAGAAAAATGTGATACTTACCAGTTA ATAATGGAAGTGCAGACATGGGTGGTCAGCCTTTTCGTTTATTTAATACAGGAACAATT ACTATTTCACTTGAGGATGAAAAAGACAATCCACCATCTTTCACAGAACTTCTTATGTT ACAGAAGTAGAAGAAAACAGAATTGACGTGGAGATTTTACGAATGAAGGTACAGGATCAG GATTTGCCAAACACTCCTCACTCAAAGGCTGTATACAAAATCCTACAAGGAAATGAAAAT GGAAATTCATAATTAGCACAGATCCAAATACAAATGAAGGAGTGCTGTGTGTTGTCAAG CCATTGAACTATGAAGTCAATCGCCAAGTTATTTTGAAGTTGGTGTATTAAACGAGGCA CAATTCTCTAAAGCAGCGAGCTCACAACCTCCTACAATGTGCACTACAACGTGACCGTT AAAATTATAGACAGTGATGAGGGCCCTGAATGCCACCCTCCAGTGAAAGTTATTCAGAGT CAAGATGGCTTCCAGCTGGCCAAGAACTCCTTGGATACAAAGCACTGGACCCGGAATA TCCAGTGGTGAAGGCTTAAGGTATCAGAAGTTAGGGGATGAAGATAACTGGTTTGAAATT AATCAACACACTGGCGACTTGAGAACTCTAAAAGTACTAGATAGAGAATCCAAATTTGTA AAAAACAACCAATACAATATTTAGTTGTTGCAGTGGATGCAGTTGGCCGATCTTGCACT GGAACATTAGTAGTTTCTTTGGATGATTACAACGATCACGCACCTCAAATTGACAAAGAA GTGACCATTTGTGAGAATAATGAGGATTTTGTGTTCTGAAACCTGTAGATCCAGATGGA CCTGAAAATGGACCACCTTTTCAATTCTTTCTGGATAATTCTGCCAGTAAAACTGGAAC ATAGAAGAAAAGGATGGTAAAATGCCATTCTTCGTCAACGGCAAAATCTTGATTATAAC TATTATTCTGTGCCTATTCAAATAAAAGACAGGCATGGTTTAGTTGCAACACATATGTTA ACAGTGAGAGTATGTGACTGTTCAACTCCATCTGAGTGTAGAATGAAGGATAAAAGTACA AGAGACGTTAGACCAATGTAATACTTGGAAAGATGGGCTATTCTTGCTATGGTGTGGGT TCTGTATTGTTATTATGTATTCTGTTTACATGTTTCTGTGTCAGTCTAAGAGAACAGTC AAGAAATGTTTTCCAGAAGACATAGCCCAGCAAAATTTAATTGTATCAAATACTGAAGGA CCTGGAGAAGAAGTAACGGAAGCAAAATATTAGACTCCCATGCAGACATCCAACATTTGT GACACAAGCATGTCTGTTGGTACTGTTGGTGGCCAGGGAATCAAAACACAGCAAAGTTTT GAGATGGTCAAAGGAGGTACACTTTGGATTCCAACAAAGGAGGTGGACATCAGACCTTG GAGTCCGTCAAGGGAGTGGGGCAGGGAGATACTGGCAGATATGCGTACACGGACTGGCAG AGTTTCACCCAACCTCGGCTTGGCGAAGAATCCATTAGAGGACACACTCTGATTAATAAT TAA </pre>
Restriction Sites:	Please inquire
ACCN:	NM_004948

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:	<u>NM_004948.2</u> , <u>NP_004939.1</u>
RefSeq Size:	4271 bp
RefSeq ORF:	2523 bp
Locus ID:	1823
UniProt ID:	<u>Q08554</u>
Cytogenetics:	18q12.1
Domains:	CA
Protein Families:	Transmembrane
Gene Summary:	The protein encoded by this gene is a calcium-dependent glycoprotein that is a member of the desmocollin subfamily of the cadherin superfamily. These desmosomal family members, along with the desmogleins, are found primarily in epithelial cells where they constitute the adhesive proteins of the desmosome cell-cell junction and are required for cell adhesion and desmosome formation. A subtype of IgA pemphigus, a life-threatening autoimmune disease, is characterized by the presence of autoantibodies that target the encoded protein. The desmosomal family members are arranged in two clusters on chromosome 18. Alternative splicing of this gene results in multiple transcript variants. At least one of these variants encodes a preproprotein that is proteolytically processed to generate the mature protein. [provided by RefSeq, Nov 2015] Transcript Variant: This variant (Dsc1b) includes an alternate exon in the 3' coding region, resulting in a frameshift and an early stop codon, compared to isoform Dsc1a. The encoded isoform (Dsc1b) is shorter than isoform Dsc1a. This isoform (Dsc1b) may undergo proteolytic processing similar to isoform Dsc1a.