

Product datasheet for **SC318502**

Desmoglein 2 (DSG2) (NM_001943) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Desmoglein 2 (DSG2) (NM_001943) Human Untagged Clone
Tag:	Tag Free
Symbol:	DSG2
Synonyms:	CDHF5; HDGC
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001943, the custom clone sequence may differ by one or more nucleotides

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ATGGCGCGGAGCCCGGGACGCGCTACGCCCTGCTGCTTCTCCTGATCTGCTTTAACGTT
GGAAGTGGACTTCACTTACAGGTCTTAAGCACAAGAAATGAAAATAAGCTGCTTCCTAAA
CATCCTCATTTAGTGC GGCAAAAGCGCGCTGGATCACC GCCCCCGTGGCTCTTCGGGAG
GGAGAGGATCTGTCCAAGAAGAATCCAATTGCCAAGATACATTCTGATCTGCAGAAGAA
AGAGGACTCAAATTA CTTACAAATACACTGGAAAAGGGATTACAGAGCCACCTTTTGGT
ATATTTGTCTTTAACAAAGATACTGGGAACTGAATGTTACCAGCATTCTTGATCGAGAA
GAAACACCATTTTTCTGCTAACAGGTTACGCTTTGGATGCAAGAGGAAACAATGTAGAG
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CAGGATGTCTTTGTTGGTCTGTGTAAGAGTTGAGTGCAGCACATACTCTTGATGAGAA
ATCAATGCAACAGATGCAGATGAGCCCAATACCCTGAATTCGAAAATTTCTATAGAATC
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TATACAACCAGTGTACCTTGGACAGAGAGGAACACAGCAGCTACACTTTGACAGTAGAA
GCAAGAGATGGCAATGGAGAAGTTACAGACAAACCTGTA AAAACAAGCTCAAGTTCAGATT
CGTATTTTGGATGTCAATGACAATATACCTGTAGTAGAAAATAAAGTGCTTGAAGGGATG
GTTGAAGAAAATCAAGTCAACGTAGAAGTTACGCGCATAAAAGTGTTCGATGCAGATGAA
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GATTCTGTACATCTGAAATTA AACTTGCAAAACTTCTGATTTTGAATCTAGATATGTT
CAAAATGGCACATACACTGTAAAGATTGTGGCCATATCAGAAGATTATCCTAGAAA AACC
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GAGCCTGTGCAGACAATCTGTCACGATGCAGAGTATGTGAATGTTACTGCAGAGGACCTG
GATGGACACCCAAACAGTGGCCCTTT CAGTTTCTCCGTCATTGACAAACCACTGGCATG
GCAGAAAATGGAAAATAGCACGCCAAGAAAGTACCAGTGTGCTGCTGCAACAAAGTGAG
AAAAAGCTTGGGAGAAGTGAAATTCAGTTCCTGATTTTCAGACAATCAGGGTTTTAGTTGT

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CCTGAAAAGCAGGTCTTACACTCACAGTTTGTGAGTGTCTGCATGGCAGCGGCTGCAGG
GAAGCACAGCATGACTCCTATGTGGCCTGGGACCCGACGAATTGCGCTCATGATTTTG
GCCTTTCTGCTCCTGCTATTGGTACCACCTTTACTGCTGATGTGCCATTGCGGAAAGGGC
GCCAAAGGCTTTACCCCATACCTGGCACCATAGAGATGCTGCATCCTTGGAATAATGAA
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TCTGCTTCCATTGTCAAAGGGCAACATGAGATGTCCGAGATGGATGGAAGGTGGGAAGAA
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GTCACAGGGTCCACTATGCCACCAACCACTGTGATCCTGGGTCTAGCCAGCCACAGAGC
CTTATTGTGACAGAGAGGGTGTATGCTCCAGCTTCTACCTTGGTATGATCAGCCTTATGCT
AATGAAGGTACAGTTGTGGTCACTGAAAGAGTAATACAGCCTCATGGGGTGGATCGAAT
CCTCTGGAAGGCACTCAGCATCTTCAAGATGTACCTTACGTATGGTGAGGGAAAGAGAG
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GGACAGAAATGTGACAGTGACAGAAAGAGTTCTAGCACCTGCTTCCACTCTGCAATCCAGT
TACCAGATTCCCCTGAAAATTCTATGACGGCTAGGAACACCACGGTGTCTGGAGCTGGA
GTCCCTGGCCCTCTGCCAGATTTTGGTTTAGAGGAATCTGGTCATTCTAATTCTACCATA
ACCACATCTTCCACCAGAGTTACCAAGCATAGCACTGTACAGCATTCTTACTCC
    
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Restriction Sites:

Please inquire

ACCN:

NM_001943

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](#)

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_001943.2, NP_001934.2</u>
RefSeq Size:	3450 bp
RefSeq ORF:	3357 bp
Locus ID:	1829
UniProt ID:	<u>Q14126</u>
Cytogenetics:	18q12.1
Domains:	CA
Protein Families:	Transmembrane
Protein Pathways:	Arrhythmogenic right ventricular cardiomyopathy (ARVC)
Gene Summary:	<p>This gene encodes a member of the desmoglein family and cadherin cell adhesion molecule superfamily of proteins. Desmogleins are calcium-binding transmembrane glycoprotein components of desmosomes, cell-cell junctions between epithelial, myocardial, and other cell types. The encoded preproprotein is proteolytically processed to generate the mature glycoprotein. This gene is present in a gene cluster with other desmoglein gene family members on chromosome 18. Mutations in this gene have been associated with arrhythmogenic right ventricular dysplasia, familial, 10. [provided by RefSeq, Jan 2016]</p>