

Product datasheet for **SC303097**

Desmoglein 1 (DSG1) (NM_001942) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Desmoglein 1 (DSG1) (NM_001942) Human Untagged Clone
Tag:	Tag Free
Symbol:	Desmoglein 1
Synonyms:	CDHF4; DG1; DSG; EPKHE; EPKHIA; PPKS1; SPPK1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001942 edited
 TAAGAACATCTACTGAGAAATTATTTAATCAGACACCAGCTGAGTGGGAGAAAAGAAAA
 GAACAGAGAAGAACAACAAAACCTCCCTTGGTCTTGGATGTAAGAGAATCCAGCAGAGAT
 GGACTGGAGTTTTCTCAGAGTAGTTGCAATGCTGTTTCTTTTTCTGGTGGTGGTAGAAGT
 TAACAGTGAATCCGAATCCAGGTAAGAGATTATAACACTAAAAATGGCACCATCAAATG
 GCATTCATCCGAAGGCAGAAACGTGAATGGATCAAGTTCGCAGCAGCCTGTCGTGAAGG
 TGAAGACAACCAAGAGGAACCAATCGCCAAAATCACTCAGATTGTGCTGCAAACCA
 GCAAGTTACATACCGCATCTCTGGAGTAGGAATTGATCAGCCACCATATGGGATCTTTGT
 CATTAATCAGAAAACCTGGTGAATTAATATAACATCCATAGTTGATCGAGAGGTCCTCC
 TTTCTTCTTACTACTGCCGAGCTCTGAACTCAATGGGCCAAGATTTAGAGAGGCCTCT
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 ATTTGCAGGACAAATAGAAGAAAATTCTAATGCAATACACTGGTGATGATACTCAATGC
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 AGAACCTTCAGATTCACCAATGTTTATTATCAACAGAAATCTGGAGAAATTCGAACGAT
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 TATGTCTCAATATAAACTGAAAGCATCTGCAATTTCTGTGACTGTGTTAAATGTAATTGA
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 ACTCACTTTGAAAAATAAAGTTACCAAGGAACAGTACAATATGCTCGGAGAAAAATACCA
 AGGAACGATTCTCTATAGATGATAATCTTCAAAGAACTGCACTGGTACAATTAATAT



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TAACATTCAAAGTTTTGGTAATGACGACAGGACTAATACAGAGCCGAACACTAAAATTAC
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 TACTGACTCTAGCCAAGTATATTCTTCTGAACCCGAAACGGAGCCAAAGATTTGTTATC
 AGACAATGTACATTTTGGTCCTGCTGGCATTGGACTCCTCATCATGGGATTTCTGGTCTT
 AGGATTTGGTCCCATTTTTGATGATCTGTTGTGATTGTGGAGGTGCTCCTCGTAGTGCAGC
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 AATGCAAGATCTGGGAGGAGGAGAGAGAATGACAGGATTTGAACTAACAGAGGGAGTTAA
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 CACCAGCATGGGTGCTGGGAGCGGTGCCCTGAGTGGAGCTGGCATAAGTGGTGGTGGCAT
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 ACCACTGTAGGGGAGAGCTCTCCTTAGCATTCAAACTTTTCTTATATTAGGACTA
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 AGGGTAAACTAGCAATGCCTGAGCCTGAACCTTAATGTGGGCCTCAGTTAATATCCCTG
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 TATTGCTTACTGGTGAGGTTGAGGAATATCACACTCGTCTTTCCCTTTACCACTGTGGTT
 TTGACTTAAGAAAGCAAACTCACTAAGTTTACTTCTCGAATTGAAGCAAGTGGGCCTG
 ACATGGTTGTCATCACTAGTGGCAATGACCTTCCAAGTAAGCAGATGGGAACTGAATTG
 TGTTTTAGGTTTTGTTTTAGTAGGTGATATTCTTTCGATCCAGCTCTTTATTACATA
 GCTCTGAAGTTAAAATGATTTACATAGGCCGAGCTGTGGACAAAAAAGAAAGCAGCAG
 CTTGTAGTATGCTTAAGCTTTGGGGAATTTTTTTTTAAGGGGATCTAAAAAATGTTTTT
 AGAACATGTAATAATGTTTAAATGGTGAAGTTGGAAAAGAATTCTTCTGTAAGTAATACC
 ATGCTAATTTATTCGCTTTTAGTAAGTAAAGTAGTGGTTGCTTTAGCAAACCTCTGCTGCC
 ATTTTGCAGGAATCAACCAGGAACCTTTAGCAGAATTGACAATATGGTGTGATAAGCAT
 GAAATAATAATAGAAACCTATTCTGCTAGTTTATCTCACCTCTAATTTTTCTCACTAGC
 ATAAATTTAAATTCCTGATTTGATTTGTCAATAAGATCTTGGCTTATATATGCTGATTT

ATAGGTAGTGTCCAAATTATATAGTATAACATATTTTTCTAGTTTCAAATTTAGTAATG
 TCCTATTTATGATATATCATTCTGTGTGTTTGTATGTAGTATTACCCAATTAATAATC
 TCTAAAAAGAATTAAGCATTCTAAGAAAAAGTAAATTTACTATTGCATGGTACAGAAA
 TTTTTCTTTCTAAATACAATGTTACTATAAGCTCACTAAAAAGAACTCTATATGACA
 AAATAAAATTAGAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001942 unedited
 NGAGTTTTTATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACCAGGTAAGAAC
 ATCTACTGAGAAATTTTAATCAGACACCAGCTGAGTGGGAGAAAAGAAAAGAACAGAG
 AAGAACAACAAAACCTCCCTTGGTCTTGGATGTAAGAGAATCCAGCAGAGATGGACTGGA
 GTTTCTTCAGAGTAGTTGCAATGCTGTTTCTTTTCTGGTGGTGGTAGAAGTTAACAGTG
 AATTCGAATCCAGGTAAGAGATTATAACACTAAAAATGGCACCATCAAATGGCATTCAA
 TCCGAAGGCAGAAACGTGAATGGATCAAGTTCGCAGCAGCCTGTCGTGAAGGTGAAGACA
 ACTCAAAGAGGAACCCAATCGCCAAAATTCAGTCAAGTTGCTGCAAACAGCAAGTTA
 CATACCGCATCTCTGGAGTAGGAATTGATCAGCCACCATATGGGATCTTTGTCATTAATC
 AGAAAACCTGGTGAATTAATATAACATCCATAGTTGATCGAGAGGTCCTCTTTCTTCA
 TTATCTACTGCCGAGCTCTGAACCTCANATGGNGGCCAAGATTTAGAGAGCCTCTAGAG
 CTCAGAGTCAGGGTTTTGGATATAAATGANACCCTNCAGTGTTCATGGCTACATT
 TGCAGGGACAAAATAGAGAAAATTCATGCAAATACACTGGTGATGATACTCAATGCTACT
 GACGCAGATGAACCCNGACATTTGAACTCAAAAATAGCCTTTTCAGATATTAGACAAGNAC
 CTTTCAGATTACCATGTTTATTTATCACAGAAATACTGGAAAAATTCGAACGATGAATAA
 TTTTCTTAGACAGAAAGCCATACGGGCCAGTATGCTTTTGTGTAAAAGGCTCTGACCGA
 C

Restriction Sites:

Please inquire

ACCN:

NM_001942

Insert Size:

5000 bp

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:

There is 1 nucleotide difference between the OriGene clone and the NCBI reference ORF. OriGene considers these to be polymorphisms and to reflect the natural differences between individuals. These result in the substitution of 1 aa.

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_001942.1](#), [NP_001933.1](#)

RefSeq Size:

4512 bp

RefSeq ORF: 3150 bp

Locus ID: 1828

UniProt ID: [Q02413](#)

Cytogenetics: 18q12.1

Protein Families: Druggable Genome

Gene Summary: This gene encodes a member of the desmoglein protein subfamily. Desmogleins, along with desmocollins, are cadherin-like transmembrane glycoproteins that are major components of the desmosome. Desmosomes are cell-cell junctions that help resist shearing forces and are found in high concentrations in cells subject to mechanical stress. This gene is found in a cluster with other desmoglein family members on chromosome 18. The encoded protein has been identified as a target of auto-antibodies in the autoimmune skin blistering disease pemphigus foliaceus. Disruption of this gene has also been associated with the skin diseases palmoplantar keratoderma and erythroderma. [provided by RefSeq, Feb 2015]