

Product datasheet for **SC326325**

Desmoglein 4 (DSG4) (NM_001134453) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Desmoglein 4 (DSG4) (NM_001134453) Human Untagged Clone
Tag:	Tag Free
Symbol:	DSG4
Synonyms:	CDGF13; CDHF13; HYPT6; LAH
Vector:	<u>pCMV6 series</u>

Fully Sequenced ORF: >NCBI ORF sequence for NM_001134453, the custom clone sequence may differ by one or more nucleotides

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ATGGATTGGCTCTTCTTCAGAAACATTTGCCTTTTGATCATTCTAATGGTGGTGATGGAA
GTAACACAGTGAATTTATTGTTGAGGTGAAGGAATTTGACATTGAAAATGGCACTACAAAA
TGGCAAACAGTCAGAAGACAAAAGCGGGAGTGGATCAAGTTTGCCGACGCTGTGCGAGAA
GGAGAGGACAACCTCGAAGAGGAACCCATTGCCAAAATTCGATCAGACTGCGAATCGAAC
CAGAAGATAACATACCGGATTTCTGGAGTAGGGATTGATCGACCACCATATGGGGTATTC
ACCATTAATCCTCGCACTGGGAAATTAACATCACTTCAGTGGTAGACAGAGAAATAACT
CCACTTTTCTTGATCTATTGCCGGGCTCTGAATTCACGGGGTGAAGATTTAGAAAGGCCCT
CTTGAGCTTAGAGTCAAAGTTATGGACATAAATGATAACGCTCCAGTCTTTTCGAAAAGT
GTATACACAGCCAGCATTGAAGAAAATAGTGATGCCAATACATTGGTAGTAAAGTTATGT
GCCACAGATGCAGATGAAGAAAATCATCTGAATTTAAAATTCGCTACAAGATCGTCTCT
CAGGAGCCATCAGGTGCACCCATGTTTCTGAATAGGTACACTGGAGAAGTCTGCACC
ATGTCCAGTTTCTGGACAGAGACAACACAGTATGTACAACCTGGTTGTGAGAGGCTCA
GATCGGGATGGAGCTGCAGATGGACTGTCTTCTGAGTGTGACTGTAGAATCAAGGTTTTA
GACGTCAACGATAATTTCCACCTTAGAGAAACTTCATACTCAGCCAGTATTGAAGAG
AATTGTTTTAAGTTCGGAAGTACGATTACAAGCAATTGATCTTGATGAAGAAGGCAT
GATAACTGGTTGGCTCAATATTTAATTCTCTGAAAATGATGGGAATTGGTTGATATT
CAAACAGATCCACAAACCAATGAAGGCATTTTGAAGTTGTCAAGATGCTGGATTATGAA
CAAGCACCTAACATTCAGCTTAGTATCGGAGTTAAAAACCAAGCTGATTTTCACTACTCC
GTTGCTTCTCAATTCAAATGCACCAACCCCTGTGAGAATTCAGTTGTTGATGTGAGA
GAAGGACCTGCATTTATCCAAGTACTATGGCTTTTGTGCGGGAAGGAATAAAAGGA
AGTTCCTTATTGAATTATGTGCTTGGCACATATACAGCCATAGATTTGGACACAGGAAAC
CCTGCAACAGATGCAGATATATCATAGGGCATGATGCAGGCAGCTGGTTAAAAATGAT
TCAAGAAGTGGTGAAGATACAATTTCTAGAGAATTTGATAAGAAGTCAAAATATATTATC
AATGGGATATACACAGCAGAGATCCTGGCTATAGATGATGGCTCTGAAAAACAGCTACA
GGAACCATATGATTGAGTTTCTGATATCAATGATTATTGTCCAACATTTTTCTGAA
AGAAGAACCATCTGCATTGACTCTCCATCAGTCCTTATCTCTGTTAATGAACATTTAT
GGGTCTCCGTTTACTTTCTGTGTTGTTGATGAGCCACCAGGAATAGCTGACATGTGGGAT
GTCAGATCAACAAATGCTACCTCGGCAATCCTTACGGCTAAGCAGGTTTTATCTCCAGGA
TTTTATGAAATCCAATCCTGGTGAAGGACAGCTATAACAGAGCATGTGAATTGGCACAA

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ATGGTGCAGTTATATGCCTGTGATTGCGATGACAACCACATGTGCCTGGACTCTGGTGCC
GCGGGCATCTACACAGAGGACATAAAGTGGTACACGTATGGGCCTGTCACTGAAGACCAA
GCTGGAGTTTCAAATGTTGGTCTTGACCAGCAGGGATTGGCATGATGGTTCTGGGCATC
CTGCTACTGATTTTGGCTCCACTCTTGCTGCTCCTGTGTTGCTGCAAACAGAGACAGCCA
GAAGGCCTGGGAACAAGATTTGCTCCTGTGCCTGAGGGCGGAGAAGGAGTGATGCAGTCT
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GGTGGTGGCACCAGCAGCGCGCGCAGCGTTTTAGGCAGATGCGCGCTGCAGGCAACT
CCAGCGCTGTTAAACCAACATCCTCCCTTTTCAGAAATCTACACCAACACCTATGCAGCC
GGGGGCACGGTGAAGGAGGTGTATCGGGAGTGGAGCTCAACACAGGTATGGGGACAGCC
GTTGGCCTCATGGCCGACGGGGCCGAGGAGCCTCAGGGGCCGCAAGGAAGAGGAGCTCT
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TACTTCTCGGAGAAAGCGTATGCTTATGCAGATGAAGATGAAGGTCGACCAGCCAATGAC
TGCTTGCTCATTATGACCACGAGGGAGTCGGGTCTCCCGTAGGCTCTATTGGTTGTTGC
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ATACCAATCAGTACTGACCTCCCTTTGCTCGGACCTAATTAATTTGTTAATGAATCTTCA
GGATTGACTCCCTCAGAAGTTGAATTCCAAGAAGAAATGGCAGCATCTGAACCCGTGGTC
CATGGGATATTATTGTGACTGAGACTTACGGTAAATGCTGATCCATGTGTGCAACCCACT
ACAATTATTTTTGATCCTCAGCTTGACCCAATGTTGTAGTAACCGAAGCAGTAATGGCA
CCTGTCTATGATATTCAAGGGAATTTTGTGTACCTGCTGAGTTAGCAGATTACAACAAT
GTAATCTATGCTGAGAGAGTACTGGCTAGTCTGGTGTGCCTGACATGAGCAATAGTAGC
ACGACTGAGGGTGTATGGACCTGTGATGAGCGGCAATTTTTAGTAGGGCCAGAAATTC
CAAGTGATGCAAATGATGAGTCCAGACCTTCCCATAGGCCAAACCGTTGGCTCCACATCC
CCCATGACATCTCGACACAGAGTAACACGATACAGTAACATACATTACACCCAACAG
    
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- Restriction Sites:** Please inquire
- ACCN:** NM_001134453
- 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:** [NM_001134453.1](#), [NP_001127925.1](#)
- RefSeq Size:** 3637 bp

RefSeq ORF: 3180 bp

Locus ID: 147409

UniProt ID: [Q86SJ6](#)

Cytogenetics: 18q12.1

Protein Families: Transmembrane

Gene Summary: This gene encodes a member of the desmoglein subgroup of desmosomal cadherins. The encoded preproprotein is proteolytically processed to generate the mature protein. This protein is a transmembrane component of desmosomes and may play a role in cell-cell adhesion in epithelial cells. Mutations in the gene are associated with localized autosomal recessive hypotrichosis and monilethrix, characterized by impaired hair growth. [provided by RefSeq, May 2016]

Transcript Variant: This variant (1) lacks an alternate in-frame exon and uses an alternate in-frame splice site, both in the 3' coding region, compared to variant 2. The encoded isoform (1) is longer than isoform 2, but may undergo proteolytic processing similar to isoform 2.