

## Product datasheet for **SC307115**

### Desmoglein 4 (DSG4) (NM\_177986) Human Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Desmoglein 4 (DSG4) (NM_177986) Human Untagged Clone                                    |
| Tag:                      | Tag Free  |
| Symbol:                   | Desmoglein 4  |
| Synonyms:                 | CDGF13; CDHF13; HYPT6; LAH  |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)  |
| E. coli Selection:        | Kanamycin (25 ug/mL)  |
| Fully Sequenced ORF:      | >SC307115 representing NM_177986.<br>Blue=Insert sequence Red=Cloning site Green=Tag(s) |

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGATTGGCTCTTCTTCAGAAACATTTGCCTTTTGTATCTAATGGTGGTGTGGAAGTAAACAGT
GAATTTATTGTTGAGGTGAAGGAATTTGACATTGAAAATGGCACTACAAAATGGCAAACAGTCAGAAGA
CAAAGCGGGGAGTGGATCAAGTTTGCCGACGCTGTGAGAAGGAGAGGACAACCTGAAGAGGAACCCC
ATTGCCAAAATTCGATCAGACTGCGAATCGAACAGAGATAACATACCGGATTTCTGGAGTAGGGATT
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GACAGAGAAAATACTCCACTTTTCTTGATCTATTGCCGGCTCTGAATTCACGGGTGAAGATTTAGAA
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GACTGTAGAATCAAGTTTTAGACGTCAACGATAATTTCCCACTTAGAGAAAACCTTACTACTCAGCC
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GATCCACAAACCAATGAAGGCATTTTGAAGTTGTCAAGATGCTGGATTATGAACAAGCACCTAACATT
CAGCTTAGTATCGGAGTTAAAAACCAAGCTGATTTTCACTACTCCGTTGCTTCTCAATTCAAAATGCAC
CCAACCCCTGTGAGAATCAAGTTGTTGATGTGAGAGAAGGACCTGCATTTATCCAAGTACTATGGCT
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AAAATTGATCAAGAAGTGGTGAATACAATTTCTAGAGAATTTGATAAGAAGTCAAAAATATATTATC
AATGGGATATACACAGCAGAGATCCTGGCTATAGATGATGGCTCTGAAAAACAGCTACAGGAACCAT
TGATTGAGTTCCTGATATCAATGATTATTGTCCAAACATTTTCTGAAAGAAGAACCATCTGCATT
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GACTCTCCATCAGTCCTTATCTCTGTTAATGAACATTCTTATGGGTCTCCGTTTACTTTCTGTGTTGTT  
 GATGAGCCACCAGGAATAGCTGACATGTGGGATGTGAGATCAACAAATGCTACCTCGGCAATCCTTACG  
 GCTAAGCAGGTTTTATCTCCAGGATTTTATGAAATCCCAATCCTGGTGAAGGACAGCTATAACAGAGCA  
 TGTGAATTGGCACAATGGTGCAGTTATATGCCTGTGATTGCGATGACAACCACATGTGCCTGGACTCT  
 GGTGCCCGGGCATCTACACAGAGGACATAACTGGTGACACGTATGGGCCTGTACTGAAGACCAAGCT  
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 ATTGAACCATTTCTTACACCAGGCTTGATACCAATCAGTACTGACCTCCCTTGTCTCGGACCTAAT  
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 GAACCCGTGGTCCATGGGGATATTATTGTGACTGAGACTTACGGTAATGCTGATCCATGTGTGCAACCC  
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 TATGATATTCAAGGGAATTTTTGTGTACCTGCTGAGTTAGCAGATTACAACAATGTAATCTATGCTGAG  
 AGAGTACTGGCTAGTCTGGTGTGCCTGACATGAGCAATAGTAGCAGACTGAGGGTTGTATGGACCT  
 GTGATGAGCGCAATTTTTAGTAGGGCCAGAAATCAAGTATGCAAATGATGAGTCCAGACCTTCCC  
 ATAGGCCAAACCGTTGGCTCCACATCCCAATGACATCTCGACACAGAGTAACACGATACAGTAACATA  
 CATTACACCCAACAGTAA  
 ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT  
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_177986
- Insert Size:** 3123 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:** 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\\_177986.2](#)

RefSeq Size: 3580 bp

RefSeq ORF: 3123 bp

Locus ID: 147409

UniProt ID: [Q86SJ6](#)

Cytogenetics: 18q12.1

Protein Families: Transmembrane

MW: 113.8 kDa

**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 (2) represents the shorter transcript and encodes the shorter isoform (2).