

Product datasheet for **RC218157**

Desmoglein 1 (DSG1) (NM_001942) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Desmoglein 1 (DSG1) (NM_001942) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Desmoglein 1
Synonyms:	CDHF4; DG1; DSG; EPKHE; EPKHIA; PPKS1; SPPK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC218157 representing NM_001942 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACTGGAGTTTCTTCAGAGTAGTTGCAATGCTGTTCAATTTTCTGGTGGTGGTAGAAGTTAACAGTG
 AATTCGAATCCAGGTAAGAGATTATAACACTAAAAATGGCACCATCAAATGGCATTCAATCCGAAGGCA
 GAAACGTGAATGGATCAAGTTCGACGAGCCTGTCGTGAAGGTGAAGACAACCTCAAAGAGGAACCAATC
 GCCAAAATTCAGTCAAGTGTGCTGCAAAACAGCAAGTTACATACCGCATCTCTGGAGTAGGAATTGATC
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 CTAGAGCTCAGAGTCAGGTTTTGGATATAAATGACAACCTCCAGTGTTTTCAATGGCTACATTTGCAG
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AGGACTAATACAGAGCCGAACACTAAAATTACTACCAATACTGGCAGACAAGAAAGTACTTCTTCCACTA
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 TGGGTCCGCTCCCTAGCACAGCTCGAAGTCAATCACAAGTATAGTACCGTGCAATATAGCAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC218157 representing NM_001942

Red=Cloning site Green=Tags(s)

MDWSFFRVVAMLFIFLVVEVNSEFRIQVRDYNKNGTIKWSIRRQKREWIKFAAACREGEDNSKRNP
 AKIHSDCAANQVQTYRISGVGIDQPPYQIFVINQKTGEINITSIVDREVTFFIIYCRALNSMGDLER
 LELRVRVLDINDNPPVFSMATFAGQIEENSANLTMILNATDAEPNNLNSKIAFKIIRQEPSDSPMFI
 INRNTGEIRTMNFDREQYQYALAVRGSDRDGGADGMSAECECNKILDVNDNIPYMEQSSYIEIQE
 NTLNSNLEIRVIDLDEEFSANWMAVIFFIISGNEGNWFEIEMNERTNVGILKVVKPLDYEAMQSLQ
 VNRKAEFHHSIMSQYKLKASISVTVLNVIEGPVFRPGSKTYVVTGNMGSNDKVGDFVATDLDTGRP
 STT VRYVMGNPNADLLAVDSRTGKLTNKNVTKQYNMLGGKYQGTILSIDDNLQRTCTGTININIS
 FGNDD RTNTEPNTKITNTGRQESTSSTNYDTSTSTDSSQVYSSEPGNGAKDLLSDNVHFGPAGIG
 LLIMGFLV LGLVPFLMICCDGAPRSAAGFEPVPECSGAIHSHWAVEGPQPEPRDITTVIPQIP
 PDNANIIECIDNS GYYTNEYGGREMQLGGGERMTGFELTEGVKTSMPGICQEYSGTLRRNSMRE
 CREGLNMFMESYFCQ KAYAYADEDEGRPSNDCLLIYDIEGVGSPAGSVGCCSFIGEDLDDSF
 LDTLGPKFKKLADISLGKESYPD LDPSWPPQSTEPVCLPQETEPVSGHPPISPHFGTTT
 VISESTYPSGPGVLHPKPILDPLGYGNVTVTES YTTSDTLKPSVHVHDNRPASNVVTERV
 VGPISGADLHGMEPLDRDGSNVIVTERVIAPISSSLPTSLT IHHPRESSNVVTERVIOPTSG
 MIGSLSMHPELANAHNVIVTERVVSAGVTGISGTTGISGGIGSSGLV GTSMGAGSGALSGA
 ISGGIGLSSLGGTASIGHMRSSDHHFNQTIGSASPSTARSITKYSTVQYSK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8115_h02.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001942

ORF Size: 3147 bp

OTI Disclaimer: 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

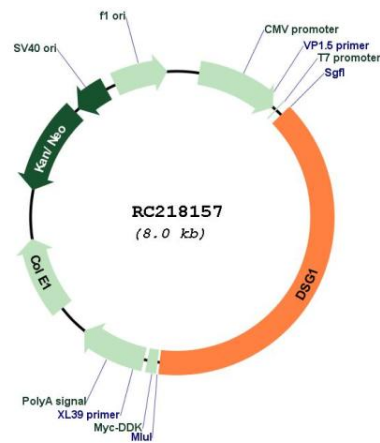
RefSeq: [NM_001942.2](#), [NP_001933.2](#)

RefSeq Size: 5447 bp

RefSeq ORF: 3150 bp

Locus ID:	1828
UniProt ID:	Q02413
Cytogenetics:	18q12.1
Protein Families:	Druggable Genome
MW:	113.7 kDa
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]

Product images:



Circular map for RC218157