

Product datasheet for **RC215512**

Desmocollin 3 (DSC3) (NM_001941) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Desmocollin 3 (DSC3) (NM_001941) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Desmocollin 3
Synonyms:	CDHF3; DSC; DSC1; DSC2; DSC4; HT-CP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC215512 representing NM_001941
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGCGCTGGGCCCGCGCTCCGTGCGCGGAGCCGTCTGCCTGCATCTGCTGCTGACCCCTGTGA
 TCTTCAGTCGTGCTGGTGAAGCCTGCAAAAAGGTGATACTTAATGTACCTTCTAAACTAGAGGCAGACAA
 AATAATTGGCAGAGTTAATTTGGAAGAGTGCTTCAGGTCTGCAGACCTCATCCGGTCAAGTGATCCCTGAT
 TTCAGAGTTCTAAATGATGGGTCAAGTGTACACAGCCAGGGCTGTTGCGCTGTCTGATAAGAAAAGATCAT
 TTACCATATGGCTTTCTGACAAAAGGAAACAGACACAGAAAGAGGTTACTGTGCTGCTAGAACATCAGAA
 GAAGGTATCGAAGACAAGACACTAGAGAAACTGTTCTCAGGCGTGCCAAGAGGAGATGGGCACCTATT
 CCTTGCTCTATGCAAGAGAATTCCTTGGGCCCTTCCATTGTTTCTTCAACAAGTTGAATCTGATGCAG
 CACAGAATACTGTCTTCTACTCAATAAGTGGACGTGGAGTTGATAAAGAACCCTTAAATTTGTTTTA
 TATAGAAAAGACACTGGAAATCTATTTTGCACCTCGGCCTGTGGATCGTGAAGAATATGATGTTTTGAT
 TTGATTGCTTATGCGTCAACTGCAGATGGATATTCAGCAGATCTGCCCTCCCACTACCCATCAGGGTAG
 AGGATGAAAATGACAACCACCCTGTTTTACAGAAGCAATTTAATTTTGAAGTTTTGGAAAGTAGTAG
 ACCTGGTACTACAGTGGGGTGGTTTGTGCCACAGACAGAGATGAACCGGACACAATGCATACGCGCCTG
 AAATACAGCATTTCAGCAGACACCAAGGTCACTGGGCTCTTTTCTGTGCATCCCAGCACAGGCGTAA
 TCACCACAGTCTCTCATTATTTGGACAGAGAGGTTGTAGACAAGTACTCATTGATAATGAAAAGTACAAGA
 CATGGATGGCCAGTTTTTTGGATTGATAGGCACATCAACTTGTATCATAACAGTAACAGATTCAAATGAT
 AATGCACCCACTTTCAGACAAAATGCTTATGAAGCATTGTAGAGGAAAATGCATTCAATGTGAAAATCT
 TACGAATACCTATAGAAGATAAGGATTTAATTAACACTGCCAATTGGAGAGTCAATTTTACCATTTTAAA
 GGGAAATGAAAATGGACATTTCAAATCAGCACAGACAAAAGAACTAATGAAGGTGTTCTTTCTGTTGTA
 AAGCCACTGAATTATGAAGAAAACCGTCAAGTGAACCTGGAAAATTGGAGTAAACAATGAAGCGCCATTTG
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 GGGGCTGAATGCACTCTGCAGCCCAATATGTGCGGATTAAGAAAACCTAGCAGTGGGGTCAAAGATC
 AACGGCTATAAGGCATATGACCCCGAAAATAGAAATGGCAATGGTTTAAAGTACAAAAAATTGCATGATC
 CTAAGGTTGGATCACCATTGATGAAATTTAGGGTCAATCATAACTTCCAAAATCCTGGATAGGGAGGT
 TGAAACTCCAAAAATGAGTTGTATAATATTACAGTCTGGCAATAGACAAAGATGATAGATCATGTACT
 GGAACACTTGCTGTGAACATTGAAGATGTAATGATAATCCACCAGAAACTTCAAGAATATGTAGTCA
 TTTGCAAACCAAAAATGGGGTATACCGACATTTTAGCTGTTGATCCTGATGAACCTGTCCATGGAGCTCC
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 ACAGCTGCCCGTCTTTCATATCAGAAAAATGCTGGATTTCAAGAAATATACCATTCTATTACTGTAAAAG
 ACAGGGCCGCGCAAGCTGCAACAAAATTAATGAGAGTTAATCTGTGTGAATGACTCATCCAACCTCAGTG
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 CTGAAGATTTAGCACAGCAAACTTAATTTATATCAAACACAGAAGCACCTGGAGACGATAGAGTGTGCTC
 TGCCAATGGATTTATGACCCAACTACCAACAACCTAGCCAAGTTTTTGTGGTACTATGGGATCAGGA
 ATGAAAAATGGAGGGCAGGAAACCATTTGAAATGATGAAAAGGAGGAAACCAGACCTTGAATCCTGCCGGG
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 TTAAGTGGAGTGGCACAGTTTTACTCAACCCCGTCTCGGTGAAAAATTGCATCGATGTAATCAGAATGAA
 GACCGCATGCCATCCAAGATTATGTCCTCACTTATAACTATGAGGGAAGAGGATCTCCAGCTGTTCTG
 TGGGCTGTGAGTGAAGAGCAGGAAGAAGATGGCCTTGACTTTTTAAATAATTTGGAACCCAAATTTAT
 TACATTAGCAGAAGCATGCACAAAGAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTTAA

Protein Sequence: >RC215512 representing NM_001941
 Red=Cloning site Green=Tags(s)

MAAAGPRRSVRGAVCLHLLLTLVIFSRAGEACKKVI LNVP SKLEADKI IGRVNLEECFRSADLIRSSDPD
 FRVLNDGSVYTARAVALSDKKRSFTIWLSDKRKQTQKEVTVLLEHQKVKSKTRHTRET VLRRAKRRWAPI
 PCSMQENSLGPFPLFLQQVESDAAQNYTVFYISGRGVDKEPLNLFYIERDTGNLFCRTPVDREEDYDFD
 LIAYASTADGYSADLPLPLPIRVEDENDNHPVFTEAIYNFVLESSRPGTTVGVVCA TDRDEPDTMHTRL
 KYSILQQTPRSPGLFSVHPSTGVITTVSHYLDREVVDKYS LIMKVQMDMGQFGLIGTSTCIITV TDSND
 NAPTFRQNA YEAFVEENAFNVEILRIPIEDKDLINTANWRVNF TILKGNENGFHKISTDKETNEGVL SVV
 KPLNYEENRQVNLEIGVNNEAPFARDIPRVTALNRALVTVHVRDLDEGP ECTPAAQYVRIKENLAVGSKI
 NGYKAYDPENRNGNGLRYKKLHDPKGWITIDEISGSIITSKILDREVETPKNELYNITVLAIDKDRSCT
 GTLAVNIEDVNDNPPEILQEYVVICKPKMGYTDILAVDPDEPVHGAPFYFSLPNTSPEISRLWSLTKVND
 TAARLSYQKNAGFQEYTIPTIVKDRAGQAATKLLRVNLCECTHPTQCRATSRSTGVILGKWAILLGI
 ALLFVLLTLVCGVFGATKGRFPEDLAQQNLII SNTEAPGDDRVC SANGFMTQTNNSSQGF CGTMGSG
 MKNGGQETIEMMKGGNQTLESCRGAGHHHTLDSCRGGHTEVDNCRYTYSEWHSFTQPRLGEKLRHCNQNE
 DRMP SQDYVLYTYN YEGRSPAGSVGCCSEKQEEDGLDFLNNLEPKFITLAEACTKR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja2232_e11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



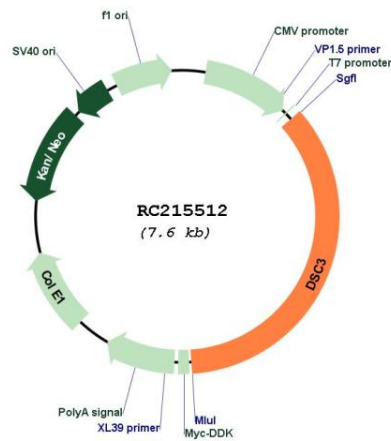
* The last codon before the Stop codon of the ORF

ACCN: NM_001941

ORF Size:	2688 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<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:	NM_001941.5
RefSeq Size:	6935 bp
RefSeq ORF:	2691 bp
Locus ID:	1825
UniProt ID:	Q14574
Cytogenetics:	18q12.1
Domains:	Cadherin_C_term, CA
Protein Families:	Transmembrane
MW:	100.4 kDa

Gene Summary:

The protein encoded by this gene is a calcium-dependent glycoprotein that is a member of the desmocollin subfamily of the cadherin superfamily. These desmosomal family members, along with the desmogleins, are found primarily in epithelial cells where they constitute the adhesive proteins of the desmosome cell-cell junction and are required for cell adhesion and desmosome formation. The desmosomal family members are arranged in two clusters on chromosome 18, occupying less than 650 kb combined. Mutations in this gene are a cause of hypotrichosis and recurrent skin vesicles disorder. The protein can act as an autoantigen in pemphigus diseases, and it is also considered to be a biomarker for some cancers. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Apr 2014]

Product images:


Circular map for RC215512