

# **Product datasheet for RC235789**

### OriGene Technologies, Inc.

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## Dermcidin (DCD) (NM\_001300854) Human Tagged ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** Dermcidin (DCD) (NM\_001300854) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: DCD

Synonyms: AIDD; DCD-1; DSEP; HCAP; PIF

**Vector:** pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

Cell Selection: Neomycin

ORF Nucleotide >RC235789 representing NM\_001300854
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGAGGTTCATGACTCTCCTCTTCCTGACAGCTCTGGCAGGAGCCCTGGTCTGTGCCTATGATCCAGAGG CCGCCTCTGCCCCAGGATCGGGGAACCCTTGCCATGAAGCATCAGCAGCTCAAAAAGGAAAATGCAGGTGA AGACCCAGGGTTAGCCAGACAGGCACCAAAGCCAAGGAAGCAGAGATCCAGCCTTCTGGAAAAAGGCCTA GACGGAGCAAAAAAAAGCTGTGGGGGGACTCGGAAAACTAGGAAAAGATGCAGTCGAAGATCTAGAAAGCG TGGGTAAAGGTGGGGAAGAGAGGTTGGTCTTTGGGGCTCCTGTGAATCTAACCTCCATCCCTCTGACTTC

**TGTGAGCCGTCCA** 

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235789 representing NM\_001300854

Red=Cloning site Green=Tags(s)

MRFMTLLFLTALAGALVCAYDPEAASAPGSGNPCHEASAAQKENAGEDPGLARQAPKPRKQRSSLLEKGL

DGAKKAVGGLGKLGKDAVEDLESVGKGGEERLVFGAPVNLTSIPLTSVSRP

**TRTRPL**EQKLISEEDLAANDILDYKDDDDK**V** 

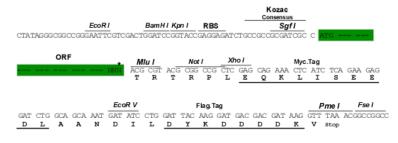
**Restriction Sites:** Sgfl-Mlul





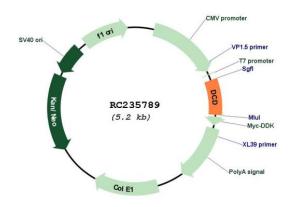
#### **Cloning Scheme:**





<sup>\*</sup> The last codon before the Stop codon of the ORF

#### Plasmid Map:



**ACCN:** NM\_001300854

ORF Size: 363 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

#### Dermcidin (DCD) (NM\_001300854) Human Tagged ORF Clone - RC235789

**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.

**RefSeq:** <u>NM 001300854.2</u>

 RefSeq Size:
 709 bp

 RefSeq ORF:
 366 bp

 Locus ID:
 117159

 UniProt ID:
 P81605

 Cytogenetics:
 12q13.2

**Protein Families:** Secreted Protein

**MW:** 12.9 kDa

**Gene Summary:** This antimicrobial gene encodes a secreted protein that is subsequently processed into

mature peptides of distinct biological activities. The C-terminal peptide is constitutively expressed in sweat and has antibacterial and antifungal activities. The N-terminal peptide, also known as diffusible survival evasion peptide, promotes neural cell survival under conditions of severe oxidative stress. A glycosylated form of the N-terminal peptide may be associated with cachexia (muscle wasting) in cancer patients. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Oct 2014]