

## Product datasheet for RC230017

### Cadherin like 23 (CDH23) (NM\_001171932) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cadherin like 23 (CDH23) (NM_001171932) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cadherin like 23
Synonyms:	CDHR23; PITA5; USH1D
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC230017 representing NM_001171932 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGCGCCATGTTGCCACCAGCTGCCACGTGGCCTGGCTTTTGGTGCTGATCTCTGGATGCTGGGGCC  
AGGTGAACCGGCTGCCCTTCTTACCAACCACTTCTTTGATACATACCTGCTGATCAGCGAGGACACGCC  
TGTGGGTCTTCTGTGACCCAGTTGCTGGCCAAAGACATGGACAATGACCCCTGGTGTGGCGTGTCT  
GGGAGGAGGCCCTCTCGTTCTTGCAGTGGAGCCTGACACTGGCGTGGTGTGGTCCGGCAGCCACTGG  
ACAGAGAGACCAAGTCAAGTTCACCGTGGAGTCTCTGTGACGACACCAGGGGGTGATCACACGGAA  
GGTGAACATCCAGGTTGGGGATGTAATGACAACGCGCCACATTCACAATCAGCCCTACAGCGTCCGC  
ATCCCTGAGAATACACCAGTGGGACGCCCATCTTCATCGTGAATGCCACAGACCCCGACTTGGGGCAG  
GGGGCAGCGTCTCTACTCCTTCCAGCCCCCTCCCAATCTTCGCCATTGACAGCGCCCGCGGTATCGT  
CACAGTATCCGGGAGCTGGACTACGAGACCACACAGGCCTACCAGCTCACGGTCAACGCCACAGATCAA  
GACAAGACCAGGCCTCTGTCCACCCTGGCCAATTGGCCATCATCATCACAGATGTCAGGACATGGACC  
CCATCTTCATCAACCTGCCTTACAGCACAACATCTACGAGCATTCTCCTCCGGGCACGAGGTGCCAT  
CATCACCGCCATAGACCAGGATAAAGGACGTCCCCGGGCATTGGCTACACCATCGTTTCAGGGAATACC  
AACAGCATCTTTGCCCTGGACTACATCAGCGGAGTCTGACCTGAATGGCCTGCTGGACCGGGAGAAC  
CCCTGTACAGCCATGGTTCATCCTGACTGTGAAGGGCACGGAGCTGAACGATGACCGCACCCCATCTGA  
CGCTACAGTACACCAGACCTTCAATATCCTGGTTATTGACATCAATGACAATGCCCGGAGTTCAACAGC  
TCCGAGTACAGCGTGGCCATCACTGAGCTGGCACAGGTCGGCTTTGCCCTTCCACTCTTCATCCAGGTGG  
TGGACAAGGATGAGGTGAGTCCCTGGACACATGGCCATGCAGACCCACCACCATCCAGACCCACCACC  
CTGCCTGGGCTGTTCAAGTCTCAGCTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAAGTTTAA



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**Protein Sequence:** >RC230017 representing NM\_001171932  
Red=Cloning site Green=Tags(s)

MGRHVATSCHVAWLLVLSGCGWQVNRLPFFTNHFFDITYLLISEDTPVGSSVTQLLAQDMDNDPLVFGVS  
 GEEASRFFAVEPDTGVVWLRQPLDRETKSEFTVEFSVSDHQGVI TRKVN IQVGDVNDNAPTFHNQPYSVR  
 IPENTPVGTPIFIVNATDPLGAGGSVLYSFQPPSQFFAIDSARGIVTVIRELDYETTQAYQLTVNATDQ  
 DKTRPLSTLANLAIITDQVMDPIFINLPYSTNIYEHSPPGTTVRIITAIIDQDKGRPRGIGYTI VSGNT  
 NSIFALDYISGLVTLNGLLDRENPLYSHGFILTVKGTLENDRTPSDATVTTTTFNILVIDINDNAPEFNS  
 SEYSVAITELAQVGFALPLFIQVVDKDEVSPWTHGPCRPTTHPDP PPPCLGCSGPQL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8057\\_g04.zip](https://cdn.origene.com/chromatograms/mk8057_g04.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001171932

**ORF Size:** 1218 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.

**RefSeq:** [NM\\_001171932.1](#), [NP\\_001165403.1](#)

**RefSeq ORF:** 1221 bp

**Locus ID:** 64072

**UniProt ID:** [Q9H251](#)

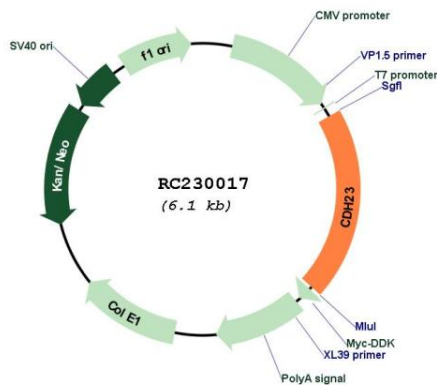
**Cytogenetics:** 10q22.1

**Protein Families:** Transmembrane

**MW:** 45 kDa

**Gene Summary:** This gene is a member of the cadherin superfamily, whose genes encode calcium dependent cell-cell adhesion glycoproteins. The encoded protein is thought to be involved in stereocilia organization and hair bundle formation. The gene is located in a region containing the human deafness loci DFNB12 and USH1D. Usher syndrome 1D and nonsyndromic autosomal recessive deafness DFNB12 are caused by allelic mutations of this cadherin-like gene. Upregulation of this gene may also be associated with breast cancer. Alternative splice variants encoding different isoforms have been described. [provided by RefSeq, May 2013]

**Product images:**



Circular map for RC230017