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# Product datasheet for SC304999

## Cadherin like 23 (CDH23) (NM_022124) Human Untagged Clone

### Product data:

**Product Type:** Expression Plasmids

**Product Name:** Cadherin like 23 (CDH23) (NM_022124) Human Untagged Clone

**Tag:** Tag Free

**Symbol:** CDH23

**Synonyms:** CDHR23; PITA5; USH1D

**Vector:** pCMV6 series

**Fully Sequenced ORF:**

>NCBI ORF sequence for NM_022124, the custom clone sequence may differ by one or more nucleotides

ATGGGGCGCCATGTTGCCACCAGCTGCCACGTGGCCTGGCTTTTGGTGCTGATCTCTGGA
TGCTGGGGCCAGGTGAACCGGCTGCCCTTCTTCACCAACCACTTCTTTGATACATACCTG
CTGATCAGCGAGGACACGCCTGTGGGTTCTTCTGTGACCCAGTTGCTGGCCCAAGACATG
GACAATGACCCCCTGGTGTTTGGCGTGTCTGGGGAGGAGGCCTCTCGCTTCTTTGCAGTG
GAGCCTGACACTGGCGTGGTGTGGCTCCGGCAGCCACTGGACAGAGAGACCAAGTCAGAG
TTCACCGTGGAGTTCTCTGTCAGCGACCACCAGGGGGTGATCACACGGAAGGTGAACATC
CAGGTTGGGGATGTGAATGACAACGCGCCCACATTTCACAATCAGCCCTACAGCGTCCGC
ATCCCTGAGAATACACCAGTGGGGACGCCCATCTTCATCGTGAATGCCACAGACCCCGAC
TTGGGGGCAGGGGGCAGCGTCCTCTACTCCTTCCAGCCCCCCTCCCAATTCTTCGCCATT
GACAGCGCCCGCGGTATCGTCACAGTGATCCGGGAGCTGGACTACGAGACCACACAGGCC
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AACTTGGCCATCATCATCACAGATGTCCAGGACATGGACCCCATCTTCATCAACCTGCCT
TACAGCACCAACATCTACGAGCATTCTCCTCCGGGCACGACGGTGCGCATCATCACCGCC
ATAGACCAGGATAAAGGACGTCCCCGGGGCATTGGCTACACCATCGTTTCAGGGAATACC
AACAGCATCTTTGCCCTGGACTACATCAGCGGAGTGCTGACCTTGAATGGCCTGCTGGAC
CGGGAGAACCCCCTGTACAGCCATGGCTTCATCCTGACTGTGAAGGGCACGGAGCTGAAC
GATGACCGCACCCCATCTGACGCTACAGTCACCACGACCTTCAATATCCTGGTTATTGAC
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GCACAGGTCGGCTTTGCCCTTCCACTCTTCATCCAGGTGGTGGACAAGGATGAGAATTTG
GGCCTGAACAGCATGTTTGAGGTGTACTTGGTGGGGAACAACTCCCACCACTTCATCATC
TCCCCGACCTCCGTCCAGGGGAAGGCGGACATTCGTATTCGGGTGGCCATCCCACTGGAC
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GAGGAGACCACAGGCCGGGTCAGGATCAATGTGTTGGATGTCAACGACAACGTGCCCACC
TTCCAGAAGGATGCCTACGTGGGTGCTCTGCGGGAGAACGAGCCTTCTGTCACACAGCTG



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GTGCGGCTCCGGGCAACAGATGAAGACTCCCCTCCCAACAACCAGATCACCTACAGCATT
GTCAGTGCATCTGCCTTTGGCAGCTACTTCGACATCAGCCTGTACGAGGGCTATGGAGTG
ATCAGCGTCAGTCGCCCCCTGGATTATGAACAGATATCCAATGGGCTGATTTATCTGACG
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CCCGAGGAAGACCAGAAGGGCCTGGGCCGCTCGCTGGAGACGCTGACCGCTGCCGAGGCC
ACTGCCTTCGAGCGCAACGCCCGCACAGAATCCGCCAAATCCACACCCCTGCACAAACTT
CGCGACGTGATCATGGAGACCCCCCTGGAGATCACAGAGCTGTGA

**Restriction Sites:** Please inquire

**ACCN:** NM_022124

**OTI Disclaimer:** 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.

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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_022124.2, NP_071407.2 |
| **RefSeq Size:** | 11073 bp |
| **RefSeq ORF:** | 10065 bp |
| **Locus ID:** | 64072 |
| **UniProt ID:** | Q9H251 |
| **Cytogenetics:** | 10q22.1 |
| **Protein Families:** | Transmembrane |
| **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] Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). |