

Product datasheet for **SC305678**

Cadherin like 23 (CDH23) (NM_052836) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cadherin like 23 (CDH23) (NM_052836) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cadherin like 23
Synonyms:	CDHR23; PITA5; USH1D
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_052836 edited
 GCTGCACACACGCACACGGAGCCATGGGGCGCCATGTTGCCACCAGCTGCCACGTGGCCT
 GGCTTTTGGTGCTGATCTCTGGATGCTGGGGCCAGGTGAACCGGCTGCCCTTCTTACCA
 ACCACTTCTTTGATACATACCTGCTGATCAGCGAGGACACGCCTGTGGGTCTTCTGTGA
 CCCAGTTGCTGGCCCAAGACATGGACAAATGACCCCTGGTGTGGCGTGTCTGGGGAGG
 AGGCCTCTCGCTTCTTTGCAGTGGAGCCTGACACTGGCGTGGTGTGGCTCCGGCAGCCAC
 TGGACAGAGAGACCAAGTCAGAGTTCACCGTGGAGTTCTCTGTGACGACACCACAGGGGG
 TGATCACACGGAAGGTGAACATCCAGGTCGGGGATGTGAATGACAACGCGCCACATTTT
 ACAATCAGCCCTACAGCGTCCGCATCCCTGAGAATACACCAGTGGGGACGCCCATCTTCA
 TCGTGAATGCCACAGACCCCGACTTGGGGCAGGGGGCAGCGTCTCTACTCCTTCCAGC
 CCCCCTCCCAATTCTTCGCCATTGACAGCGCCCGCGGTATCGTCACAGTGATCCGGGAGC
 TGGACTACGAGACCACACAGGCCTACCAGCTCACGGTCAACGCCACAGATCAAGACAAGA
 CCAGGCCTCTGTCCACCCTGGCCAACTTGGCCATCATCATCACAGATGTCCAGGACATGG
 ACCCCATCTTTCATCAACCTGCCTTACAGCACCAACATCTACGAGCATTCTCTCCGGGCA
 CGACGGTGGCCTCATCACCGCCATAGACCAGGATAAAGGACGTCCCGGGGCATTGGCT
 ACACCATCGTTTACAGGAATACCAACAGCATCTTTCGCCCTGGACTACATCAGCGGAGTGC
 TGACCTTGAATGGCCTGCTGGACCGGGAGAACCCCTGTACAGCCATGGCTTCATCCTGA
 CTGTGAAGGGCACGGAGCTGAACGATGACCGCACCCCATCTGACGCTACAGTACCACGA
 CCTTCAATATCCTGGTTATTGACATCAATGACAATGCCCCGGAGTTCAACAGCTCCGAGT
 ACAGCGTGGCCATCACTGAGCTGGCACAGGTCCGGCTTTCGCCCTTCCACTTTCATCCAGG
 TGGTGGACAAGGATGAGAATTTGGGCCTGAACAGCATGTTTGGAGTGTACTTGGTGGGA
 ACAACTCCCACCCTTTCATCATCTCCCCGACCTCCGTCCAGGGGAAGGCGGACATTTCGA
 TTCGGGTGGCCATCCCCTGGACTACGAGACCGTGGACCGTACGACTTTGATCTCTTTG
 CCAATGAGAGTGTGCTGACCATGTGGGTATGCCAAGGTGAAGATCACTCTCATCAATG
 AAAATGACAACCGGCCATCTTTCAGCCAGCCACTGTACAACATCAGCCTGTACGAGAACG
 TCACCGTGGGACCTCTGTGCTGACAGTCTGGTGTGAGTCCCGCTTCACTGCAGGGCCAC
 TGAGCTCTCCAGGGCCGACTGTGGTGGAGCCAGAGGGATTTGTCCAAGGGACCTCA
 GCAATCAGGGAAGGAGGCACCCCAATCCCTGAGCTGTGTTTGGTGTATTAATAA
 AGTTTTTGGACTCTTAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_052836

Insert Size: 2000 bp

OTI Disclaimer: 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: It is not a variant.

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_052836.1](#), [NP_443068.1](#)

RefSeq Size: 2022 bp

RefSeq ORF: 1593 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 (2) differs in the 3' coding region and 3' UTR, compared to variant 1. The resulting isoform (2) has a distinct C-terminus and is shorter than isoform 1.