

Product datasheet for **SC125942**

Cadherin 16 (CDH16) (NM_004062) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cadherin 16 (CDH16) (NM_004062) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cadherin 16
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_004062 edited

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GCCTGTCTGACCATGGTCCCTGGCTGGCTGCTTTGTGTCTCCGTCCCCCAGGC
TCTCCCCAAGGCCAGCCTGCAGAGCTGTCTGTGGAAGTTCCAGAAAATATGGTGGA
TTTCCCTTTATACCTGACCAAGTTGCCGCTGCCCGTGAGGGGGCTGAAGGCCAGATCGT
GCTGTCAAGGGACTCAGGCAAGGCAACTGAGGGCCATTTGCTATGGATCCAGATTCTGG
CTTCTGCTGGTGACCAAGGGCCCTGGACCGAGAGGAGCAGGCAGAGTACCAGCTACAGGT
CACCTGGAGATGCAGGATGGACATGTCTTGTGGGTCCACAGCCTGTGCTTGTGCACGT
GAAGGATGAGAATGACCAAGGTGCCCATTTCTCTCAAGCCATCTACAGAGCTCGGCTGAG
CCGGGGTACCAGGCTGGCATCCCCTTCTCTTCTTGAAGCTTCAGACCGGGATGAGCC
AGGCACAGCCAACTCGGATCTTCGATTCCACATCCTGAGCCAGGCTCCAGCCAGCCTTC
CCCAGACATGTTCCAGCTGGAGCCTCGGCTGGGGCTCTGGCCCTCAGCCCCAAGGGGAG
CACCAGCCTTGACCACGCCCTGGAGAGGACCTACCAGCTGTTGGTACAGGTCAAGGACAT
GGGTGACCAGGCTCAGGCCACCAGGCCACTGCCACCGTGAAGTCTCCATCATAGAGAG
CACCTGGGTGTCCTAGAGCCTATCCACCTGGCAGAGAATCTCAAAGTCTATACCCGCA
CCACATGCCCCAGGTACACTGGAGTGGGGTGATGTGCACTATCACCTGGAGAGCCATCC
CCCGGGACCCCTTTGAAGTGAATGCAGAGGAAACCTCTACGTGACCAGAGAGCTGGACAG
AGAAGCCCAGGCTGAGTACCTGTCTCAGGTGCGGGCTCAGAAATCCCATGGCGAGGACTA
TGCGGGCCCTCTGGAGCTGCACGTGCTGGTGATGGATGAGAATGACAACGTGCCTATCTG
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GAACCTCAGTTATGAGGCAGCTCCAAGTCATGAGGTGGTGGTGGTGCAGAGTGTGGC
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GAGAGTGATGCCACCCCAAGTTGGACCAGGAGAGCTACGAGGCCAGTGTCCCATCAG
TGCCCCAGCCGGCTCTTCTGCTGACCATCCAGCCCTCCGACCCATCAGCCGAACCT
CAGGTTCTCCCTAGTCAATGACTCAGAGGGCTGGCTCTGATTGAGAAATTTCTCCGGGA
GGTGACACCCGCCAGTCCCTGCAGGGCGCCAGCCTGGGGACACCTACACGGTGCTTGT
GGAGGCCCAGGATACAGATGAGCCGAGACTGAGCGCTTCTGCACCCCTGGTGATCCACTT
CCTAAAGGCCCTCCTGCCCCAGCCCTGACTCTTGCCCTGTGCCCTCCCAATACCTCTG
CACACCCCGCCAGACCATGGCTTGATCGTGAGTGAGCCAGCAAGGACCCCGATCTGGC
CAGTGGGCACGGTCCCTACAGCTTACCCCTTGGTCCCAACCCACGGTGCAACGGGATTG
GCGCCTCCAGACTCTCAATGGTTCCCATGCCTACCTCACCTTGGCCCTGCATTGGGTGGA
GCCAGGTGAACACATAATCCCCGTGGTGGTCAGCCACAATGCCAGATGTGGCAGCTCCT
GGTTCGAGTGATCGTGTGCTGCAACGTGGAGGGGCAGTGATGCGCAAGGTGGGCCG
CATGAAGGGCATGCCACGAAGCTGTGCGCAGTGGGCATCCTTGTAGGCACCTGGTAGC
AATAGGAATCTTCTCATCTCATTTTACCCACTGGACCATGTCAAGGAAGAAGGACCC
GGATCAACCAGCAGACAGCGTGCCCTGAAGGCGACTGTCTGAATGGCCAGGCAGCTCT
AGCTGGGAGCTTGGCCTCTGGCTCCATCTGAGTCCCTGGGAGAGAGCCAGCACCACAG
ATCCAGCAGGGGACAGGACAGAGTAGAAGCCCTCCATCTGCCCTGGGGTGGAGGACCA
TCACCATCACCAGGCATGTCTGCAGAGCCTGGACACCAACTTTATGGACTGCCCATGGGA
GTGCTCCAAATGTCAGGGTGTGTTGCCCAATAATAAGCCCGAGAGAACTGGGCTGGGCC
TATGGGATTGGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_004062 unedited <pre> GGACATACTTGTAAACGACTCACTATAGGCGGCCGCGTAATCAACATCTGGTACCGGTCC GGAATTCCTCCGGATGGGAGCCAGTCTTGGGCGCTGGAGGGCCTGTCCTGACCATGGTCCC TGCCTGGCTGTGGCTGCTTTGTGTCTCCGTCCCCCAGGCTCTCCCAAGGCCAGCCTGC AGAGCTGTCTGTGAAGTCCAGAAAATATGGTGGAAATTTCCCTTTATACCTGACCAA GTTGCCGCTGCCCCGTGAGGGGGCTGAAGGCCATATCGTGCTGTCAGGGGACTCAGGCAA GGCAACTGAGGGCCATTGCTATGGATCCAGATTCTGGCTTCCTGCTGGTGACCAGGGC CCTGGACCGAGAGGAGCAGGCAGAGTACCAGCTACAGGTACCCCTGGAGATGCAGGATGG ACATGTCTTGTGGGTCCACAGCCTGTGCTTGTGCACGTGAAGGATGAGAATGACCAGGT GCCCCATTCTCTCAAGCCATCTACAGAGCTCGGCTGAGCCGGGTACCAGGCCTGGCAT CCCCTTCTCTTCTTGGGCTTCAGACCGGGATGAGCCAGGCACAGCCAACTCGGATCT TCGATTCCACATCCTGAGCCAGGCTCCAGCCCAGCCTTCCCCAGACATGTTCCAGCTGGA GCCTCGGCTGGGGCTCTGGCCCTCAGCCCCAAGGGGAGCACCAGCCTTGACCACGCCCT GGAGAGGACCTACCAGCTGTTGGTACAGGTCAAGGACATGGGTGACCAGGCCTCAGGCCA CCAGGCCACTGCCNACCGTGGAAGTCTCCATCATAGAGAGCACCTGGGTGTCCTAGAGC CTATCCACCTGGCAGAGAATCTCANAGTCCTATACCCGACACATGGCCAGGTACACT GGAGTGGGGGTGATGTGCACTATCACCTGNAGAGCCATCC </pre>
Restriction Sites:	Please inquire
ACCN:	NM_004062
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).
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_004062.2</u> , <u>NP_004053.1</u>
RefSeq Size:	2833 bp
RefSeq ORF:	2490 bp
Locus ID:	1014
UniProt ID:	<u>O75309</u>
Cytogenetics:	16q22.1
Protein Families:	Transmembrane

Gene Summary:

This gene is a member of the cadherin superfamily, genes encoding calcium-dependent, membrane-associated glycoproteins. Mapped to a previously identified cluster of cadherin genes on chromosome 16q22.1, the gene localizes with superfamily members CDH1, CDH3, CDH5, CDH8 and CDH11. The protein consists of an extracellular domain containing 6 cadherin domains, a transmembrane region and a truncated cytoplasmic domain but lacks the prosequence and tripeptide HAV adhesion recognition sequence typical of most classical cadherins. Expression is exclusively in kidney, where the protein functions as the principal mediator of homotypic cellular recognition, playing a role in the morphogenic direction of tissue development. Alternatively spliced transcript variants encoding distinct isoforms have been identified. [provided by RefSeq, Mar 2011]

Transcript Variant: This variant (1) encodes the longest isoform (1).