

Product datasheet for **SC331604**

Cadherin 16 (CDH16) (NM_001204745) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cadherin 16 (CDH16) (NM_001204745) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cadherin 16
Vector:	pCMV6-Entry (PS100001)



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Fully Sequenced ORF: >SC331604 representing NM_001204745.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGGTCCCTGCCTGGCTGTGGCTGCTTTGTGTCTCCGTCCCCAGGCTCTCCCCAAGGCCAGCCTGCA
 GAGCTGTCTGTGGAAGTTCAGAAAATATGGTGGAAATTTCCCTTTATACCTGACCAAGTTGCCGCTG
 CCCCGTGAGGGGGCTGAAGGCCAGATCGTGCTGTCAAGGGACTCAGGCAAGGCAACTGAGGGCCATT
 GCTATGGATCCAGATTCTGGCTTCTGCTGGTGACCAAGGCCCTGGACCGAGAGGAGCAGGCAGAGTAC
 CAGCTACAGGTACCCCTGGAGATGCAGGATGGACATGTCTTGTGGGGTCCACAGCCTGTGCTTGTGCAC
 GTGAAGGATGAGAATGACCAGGTGCCCATTTCTCTCAAGCCATCTACAGAGCTCGGCTGAGCCGGGT
 ACCAGGCTGGCATCCCCTTCTCTTCTTGTAGGCTTCAGACGGGATGAGCCAGGCACAGCCAACCTCG
 GATCTTCGATTCCACATCCTGAGCCAGGCTCCAGCCAGCCTTCCCAGACATGTTCCAGCTGGAGCCT
 CGGCTGGGGGCTCTGGCCCTCAGCCCCAAGGGGAGCACCAGCCTTGACCACGCCCTGGAGAGGACCTAC
 CAGCTGTTGGTACAGGTCAAGGACATGGGTGACCAGGCCCTCAGGCCACCAGGCCACTGCCACCGTGAA
 GTCTCCATCATAGAGAGCACCTGGGTGTCCTAGAGCCTATCCACCTGGCAGAGAATCTCAAAGTCTTA
 TACCCGCACCATGCCCCAGGTACACTGGAGTGGGGGTGATGTGCACTATCACCTGGAGAGCCATCCC
 CCGGGACCCCTTTGAAGTGAATGCAGAGGAAACCTCTACGTGACCAGAGAGCTGGACAGAGAAGCCAG
 GCTGAGTACCTGCTCCAGGTGCGGGCTCAGAATCCCATGGCGAGGACTATGCGGCCCTCTGGAGCTG
 CACGTGCTGGTGTGATGGAATGACAACGTGCCTATCTGCCCTCCCCGTGACCCACAGTCAGCATC
 CCTGAGCTCAGTCCACCAGTACTGAAGTGAAGTACTGTCAGCAGAGGATGCAGATGCCCCGGCTCC
 CCCAATCCCACGTTGTGTATCAGCTCCTGAGCCCTGAGCCTGAGGATGGGGTAGAGGGGAGAGCCTTC
 CAGGTGGACCCCACTTCAAGCAGTGTGACGCTGGGGGTGCTCCCACTCCGAGCAGGCCAGAACATCCTG
 CTTCTGGTGTGGCCATGGACCTGGCAGGCCAGAGGGTGGCTTCAGCAGCAGTGTGAAGTCAAGTTC
 GCAGTCAAGATATCAATGATCAGCCCCCTGAGTTCATCACTTCCCAGATTGGGCCTATAAGCCTCCCT
 GAGGATGTGGAGCCCGGACTCTGGTGGCCATGCTAACAGCCATTGATGCTGACCTCGAGCCCGCCTTC
 CGCCTCATGGATTTTGCATTGAGAGGGGAGACAGAGAAGGGACTTTTGGCCTGGATTGGGAGCCAGAC
 TCTGGGCATGTTAGACTCAGACTCTGCAAGAACCTCAGTTATGAGGCAGCTCCAAGTCATGAGGTGGTG
 GTGGTGGTGCAGAGTGTGGCGAAGCTGGTGGGGCCAGGCCAGGCCCTGGAGCCACCGCCACGGTGACT
 GTGCTAGTGGAGAGAGTGTGCCACCCCCAAGTTGGACCAGGAGAGCTACGAGGCCAGTGTCCCCATC
 AGTGCCCCAGCCGGCTCTTCTGCTGACCATCCAGCCCTCCGACCCATCAGCCGAACCTCAGGTTTC
 TCCCTAGTCAATGACTCAGAGGGCTGGCTCTGCATTGAGAAATCTCCGGGGAGGTGCACACCGCCAG
 TCCCTGCAGGGGCCAGCCTGGGGACACCTACACGGTGTGTGGAGGGCCAGGATACAGACCATGGC
 TTGATCGTGAGTGGACCCAGCAAGGACCCGATCTGGCCAGTGGGCACGGTCCCTACAGCTTCACCCCT
 GGTCCCAACCCACGGTGCAACGGGATTGGCGCCTCCAGACTCTCAATGGTTCCCATGCCTACCTACC
 TTGGCCCTGCATTGGGTGGAGCCACGTGAACACATAATCCCCGTGGTGGTTCAGCCACAATGCCAGATG
 TGGCAGCTCCTGGTTCGAGTGATCGTGTGTGCTGCAACGTGGAGGGGAGTGCATGCGCAAGGTGGGC
 CGCATGAAGGGCATGCCACGAAGCTGTCGGCAGTGGGCATCCTTGTAGGCACCTGGTAGCAATAGGA
 ATCTTCCTCATCTCATTTTACCCACTGGACCATGTCAAGGAAGAAGGACCCGGATCAACCAGCAGAC
 AGCGTGCCCTGAAGGCGACTGCTGA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001204745

Insert Size: 2373 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).

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_001204745.1](#)

RefSeq Size: 2869 bp

RefSeq ORF: 2373 bp

Locus ID: 1014

UniProt ID: [O75309](#)

Cytogenetics: 16q22.1

Protein Families: Transmembrane

MW: 85.8 kDa

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 (3) lacks an in-frame segment in the 3' coding region, as compared to variant 1. The resulting isoform (3) lacks an internal segment, as compared to isoform 1.