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Product datasheet for SC331603

Cadherin 16 (CDH16) (NM_001204744) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cadherin 16 (CDH16) (NM_001204744) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cadherin 16
Vector:	pCMV6-Entry (PS100001)

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Fully Sequenced ORF:

>SC331603 representing NM_001204744.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGGTCCCTGCCTGGCTGTGGCTGCTTTGTGTCTCCGTCCCCCAGGCTCTCCCCAAGGCCCAGCCTGCA
GAGCTGTCTGTGGAAGTTCCAGAAAACTATGGTGGAAATTTCCCTTTATACCTGACCAAGTTGCCGCTG
CCCCGTGAGGGGGCTGAAGGCCAGATCGTGCTGTCAGGGGACTCAGGCAAGGCAACTGAGGGCCCATTT
GCTATGGATCCAGATTCTGGCTTCCTGCTGGTGACCAGGGCCCTGGACCGAGAGGAGCAGGCAGAGTAC
CAGCTACAGGTCACCCTGGAGATGCAGGATGGACATGTCTTGTGGGGTCCACAGCCTGTGCTTGTGCAC
GTGAAGGATGAGAATGACCAGGTGCCCCATTTCTCTCAAGCCATCTACAGAGCTCGGCTGAGCCGGGGT
ACCAGGCCTGGCATCCCCTTCCTCTTCCTTGAGGCTTCAGACCGGGATGAGCCAGGCACAGCCAACTCG
GATCTTCGATTCCACATCCTGAGCCAGGCTCCAGCCCAGCCTTCCCCAGACATGTTCCAGCTGGAGCCT
CGGCTGGGGGCTCTGGCCCTCAGCCCCAAGGGGAGCACCAGCCTTGACCACGCCCTGGAGAGGACCTAC
CAGCTGTTGGTACAGGTCAAGGACATGGGTGACCAGGCCTCAGGCCACCAGGCCACTGCCACCGTGGAA
GTCTCCATCATAGAGAGCACCTGGGTGTCCCTAGAGCCTATCCACCTGGCAGAGAATCTCAAAGTCCTA
TACCCGCACCACATGGCCCAGGTACACTGGAGTGGGGGTGATGTGCACTATCACCTGGAGAGCCATCCC
CCGGGACCCTTTGAAGTGAATGCAGAGGGAAACCTCTACGTGACCAGAGAGCTGGACAGAGAAGCCCAG
GCTGAGTACCTGCTCCAGGTGCGGGCTCAGAATTCCCATGGCGAGGACTATGCGGCCCCTCTGGAGCTG
CACGTGCTGGTGATGGATGAGAATGACAACGTGCCTATCTGCCCTCCCCGTGACCCCACAGTCAGCATC
CCTGAGCTCAGTCCACCAGGTACTGAAGTGACTAGACTGTCAGCAGAGGATGCAGATGCCCCCGGCTCC
CCCAATTCCCACGTTGTGTATCAGCTCCTGAGCCCTGAGCCTGAGGATGGGGTAGAGGGGAGAGCCTTC
CAGGTGGACCCCACTTCAGGCAGTGTGACGCTGGGGGTGCTCCCACTCCGAGCAGGCCAGAACATCCTG
CTTCTGGTGCTGGCCATGGACCTGGCAGGCGCAGAGGGTGGCTTCAGCAGCACGTGTGAAGTCGAAGTC
GCAGTCACAGATATCAATGATCACGCCCCTGAGTTCATCACTTCCCAGATTGGGCCTATAAGCCTCCCT
GAGGATGTGGAGCCCGGGACTCTGGTGGCCATGCTAACAGCCATTGATGCTGACCTCGAGCCCGCCTTC
CGCCTCATGGATTTTGCCATTGAGAGGGGAGACACAGAAGGGACTTTTGGCCTGGATTGGGAGCCAGAC
TCTGGGCATGTTAGACTCAGACTCTGCAAGAACCTCAGTTATGAGGCAGCTCCAAGTCATGAGGTGGTG
GTGGTGGTGCAGAGTGTGGCGAAGCTGGTGGGGCCAGGCCCAGGCCCTGGAGCCACCGCCACGGTGACT
GTGCTAGTGGAGAGAGTGATGCCACCCCCCAAGTTGGACCAGGAGAGCTACGAGGCCAGTGTCCCCATC
AGTGCCCCAGCCGGCTCTTTCCTGCTGACCATCCAGCCCTCCGACCCCATCAGCCGAACCCTCAGGTTC
TCCCTAGTCAATGACTCAGAGGGCTGGCTCTGCATTGAGAAATTCTCCGGGGAGGTGCACACCGCCCAG
TCCCTGCAGGGCGCCCAGCCTGGGGACACCTACACGGTGCTTGTGGAGGCCCAGGATACAGCCCTGACT
CTTGCCCCTGTGCCCTCCCAATACCTCTGCACACCCCGCCAAGACCATGGCTTGATCGTGAGTGGACCC
AGCAAGGACCCCGATCTGGCCAGTGGGCACGGTCCCTACAGCTTCACCCTTGGTCCCAACCCCACGGTG
CAACGGGATTGGCGCCTCCAGACTCTCAATGGTTCCCATGCCTACCTCACCTTGGCCCTGCATTGGGTG
GAGCCACGTGAACACATAATCCCCGTGGTGGTCAGCCACAATGCCCAGATGTGGCAGCTCCTGGTTCGA
GTGATCGTGTGTCGCTGCAACGTGGAGGGGCAGTGCATGCGCAAGGTGGGCCGCATGAAGGGCATGCCC
ACGAAGCTGTCGGCAGTGGGCATCCTTGTAGGCACCCTGGTAGCAATAGGAATCTTCCTCATCCTCATT
TTCACCCACTGGACCATGTCAAGGAAGAAGGACCCGGATCAACCAGCAGACAGCGTGCCCCTGAAGGCG
ACTGTCTGA

Restriction Sites: SgfI-MluI

ACCN: NM_001204744

Insert Size: 2424 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_001204744.1
RefSeq Size:	2920 bp
RefSeq ORF:	2424 bp
Locus ID:	1014
UniProt ID:	O75309
Cytogenetics:	16q22.1
Protein Families:	Transmembrane
MW:	87.6 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 (2) lacks an in-frame segment in the 3' coding region, as compared to variant 1. The resulting isoform (2) lacks an internal segment, as compared to isoform 1.