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Product datasheet for SC328934

CDH18 (NM_001167667) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDH18 (NM_001167667) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDH18
Synonyms:	CDH14; CDH14L; CDH24
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

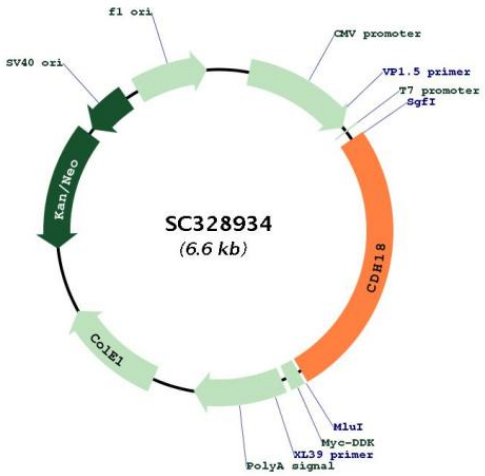
>SC328934 representing NM_001167667.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAAAATTACTAGCACATCTTGCATCTGTCCAGTCCTAGTGTGTCTCTGTTTTGTGCAGAGGTGTTAT
GGAACTGCTCACCACAGCTCCATCAAGGTGATGAGAAACCAAACCAAACACATTGAAGGTGAAACCGAA
GTCCATCATCGTCCCAAAAGGGGATGGGTATGGAATCAGTTCTTTGTTTTAGAAGAACATATGGGACCA
GATCCTCAGTATGTTGGAAAGCTGCACTCCAATTCTGACAAAGGTGATGGATCTGTCAAGTACATCCTT
ACTGGAGAGGGTGCTGGGACTATATTTATCATTGACGATACCACGGGTGATATCCACTCAACAAAAAGC
CTAGACAGAGAGCAGAAGACCCACTATGTGCTTCATGCTCAAGCTATTGATAGACGTACAAACAAACCT
CTTGAGCCTGAATCCGAGTTCATCATCAAAGTGCAAGACATCAATGACAACGCTCCAAAATTCACAGAT
GGACCATACATTGTTACTGTGCCTGAAATGTCAGATATGGGTACCTCTGTTCTACAGGTGACAGCTACT
GATGCAGATGACCCTACCTATGGAAACAGCGCTCGGGTGGTTTACAGCATTCTCCAAGGACAACCCTAC
TTCTCCGTCGACCCTAAAACAGGAGTTATTAGAACGGCCTTACATAACATGGACAGAGAAGCCAGAGAA
CATTACTCCGTAGTCATTCAAGCCAAAGACATGGCTGGGCAAGTTGGAGGGCTTTCAGGATCTACAACA
GTCAACATCACCTTAACCGATGTCAATGACAACCCACCACGCTTTCCTCAAAAACACTATCAGCTATAT
GTTCCTGAGTCAGCTCAAGTTGGTTCAGCTGTTGGGAAAATCAAGGCAAATGATGCTGACACTGGCTCA
AATGCTGACATGACCTACTCCATCATAAATGGTGATGGCATGGGAATATTCTCAATCTCCACTGACAAA
GAGACCAGAGAAGGAATCCTTTCTTTAAAGAAGCCACTGAACTATGAGAAAAAGAAGTCATATACCCTC
AACATAGAAGGAGCAAATACACATCTTGATTTTCGCTTTTCTCACTTGGGTCCTTTTAAAGATGCTACT
ATGCTGAAGATCATTGTTGGGGATGTAGATGAACCACCACTATTTTCCATGCCTTCCTACCTCATGGAA
GTCTACGAAAATGCCAAGATTGGGACCGTCGTTGGTACAGTTTTGGCACAAGATCCTGACAGTACTAAC
AGCTTAGTAAGATACTTCATCAACTACAATGTTGAAGACGACAGATTTTTCAACATTGATGCCAATACT
GGGACCATTAGGACTACAAAGGTTCTCGACAGAGAAGAAACTCCATGGTACAACATCACAGTCACTGCT
TCAGAAATTGATAATCCTGATTTGCTGAGCCATGTCACAGTGGGTATTAGAGTTCTGGATGTCAATGAC
AATCCACCCGAACTTGCCAGGGAATATGATATTATTGTATGTGAAAATTCTAAGCCTGGCCAGGTTATT
CATACCATCAGTGCCACTGATAAAGATGATTTTGCCAATGGACCAAGGTTTAACTTCTTTCTTGATGAA
CGCCTGCCTGTAAATCCAAACTTCACTCTGAAGGACAATGAAGCAGCAGCACCCTCACCATCAGGGTTT
GTGCATGCGAGAGAGATGGGCGTGTGCGGACCTGCCATGCAGAAGCCTTCCTGTCCTCGGCTGGTTTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN:	NM_001167667
Insert Size:	1725 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:	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. 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_001167667.1
RefSeq Size:	2993 bp
RefSeq ORF:	1725 bp
Locus ID:	1016
UniProt ID:	Q13634
Cytogenetics:	5p14.3

Protein Families:	Transmembrane
MW:	63.7 kDa
Gene Summary:	This gene encodes a type II classical cadherin from the cadherin superfamily of integral membrane proteins that mediate calcium-dependent cell-cell adhesion. Mature cadherin proteins are composed of a large N-terminal extracellular domain, a single membrane-spanning domain, and a small, highly conserved C-terminal cytoplasmic domain. Type II (atypical) cadherins are defined based on their lack of a HAV cell adhesion recognition sequence specific to type I cadherins. This particular cadherin is expressed specifically in the central nervous system and is putatively involved in synaptic adhesion, axon outgrowth and guidance. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2014] Transcript Variant: This variant (2) uses an alternate splice site in the 3' coding region, which results in a frameshift, compared to variant 1. It encodes isoform 2, which has a shorter and distinct C-terminus, compared to isoform 1. Variant 2 and 9 encode the same protein (isoform 2). This isoform (2) may undergo proteolytic processing similar to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.