

Product datasheet for **SC117038**

CDH18 (NM_004934) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | CDH18 (NM_004934) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | CDH18 |
| Synonyms: | CDH14; CDH14L; CDH24 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >OriGene ORF within SC117038 sequence for NM_004934 edited (data generated by NextGen Sequencing)

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ATGAAAATTACTAGCACATCTTGCCATCTGTCCAGTCCCTAGTGTGTCTCTGTTTTGTGCAG
AGGTGTTATGGAAGTCTCACCACAGCTCCATCAAGGTGATGAGAAACCAAACAAACAC
ATTGAAGTGAAACCGAAGTCCATCATCGTCCAAAAGGGGATGGGTATGGAATCAGTTC
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TCTGACAAAGGTGATGGATCTGTCAAGTACATCCTTACTGGAGAGGGTCTGGGACTATA
TTTATCATTGACGATACCACGGGTGATATCCACTCAACAAAAAGCCTAGACAGAGAGCAG
AAGACCCACTATGTGCTTCATGTCTCAAGCTATTGATAGACGTACAAACAAACCTCTTGAG
CCTGAATCCGAGTTCATCATCAAAGTGCAAGACATCAATGACAACGCTCCAAAATTCACA
GATGGACCATACATTGTTACTGTGCCTGAAATGTCAGATATGGGTACCTCTGTTCTACAG
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GCTCAAGTTGGTTCAGCTGTTGGGAAAATCAAGGCAAATGATGCTGACACTGGCTCAAAT
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CAGGATGTGATTTATCTGCCATTATGATCTCTGATGGTGGAAATCCCCTCTCTCAGCAGC
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CACCAGACATCATCCACCCTGGAAGCATAGATGTTTCAGGAATTTATTAAGCAAAGACTG
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GAGGGTCAGAGATCAGAAGCTGGTCTATCAGCTCGCTGGATTTCAGCAACGACACAATCA
GACCAGGATTATCACTACCTGGAGACTGGGACCCGAGTTTAAAAAGTTAGCTGAACTC
TATGGAGAAATAGAATCTGAAAGAACAACCTTAG
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Clone variation with respect to NM_004934.3
609 a=>g

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| 5' Read Nucleotide Sequence: | <p>>OriGene 5' read for NM_004934 unedited</p> <pre>GATATTTGTATACGACTTACTATAGGGGCGGCCGATTCCGGCACGAGGCCGAGGACGGC GAGCAGCTGTGCCAGAGCTCTGGGAAAGTCCCCTCTCTTTGCTTCTTATAAATTAAGTT CCTTTCCACCAGTTAGGGCAAGTCCGCCAAGATAGACTGAAGAGGAGCAAGAACAGAAAC AGGGAGCCAGTTACAGATCTATCCCAAGAATTCTGGGGAGAGATGATGGTGTCTGCAGCA GAGTGACAGCAGTGGAGATTGAGAGAAAAGTTGAAAATGGTTGCTTGTGTTCAACTACT GTGAAGAGTTGGAATCAGACAACACTACGGCTTTGATTTTCCAAGTGGTTCAGAATGTAAT ATGATCTGACCTTCCCTGATGGACAGTTAAATCATGGACACGCTAAACAATTTACTTTG GACTGTCTTCCCTAAAGATGCTCTGGCTTCTCTTGAATGCTCACTAAGCTTTCGTAGC TGACAAGGAAAGGAAGGAAAAGTGTGAAGTGGAAAGTTATCTTACAATGAAAATTAAGT CACATCTTGCATCTGTCCAGTCTAGTGTGTCTCTGTTTTGTGCAGAGGTGTTATGGAAC TGCTCACACAGCTCCATCAAGGTGATGAGAAACCAAACCAAACACATTGAAGGTGAAAC CGAAGTCCATCATCGTCCAAAGGGGATGGGTATGGAATCAGTTCTTTGGTTAGAAGACA TATGGGACCAGATCCTCAGTATGTGGNAAAGCTGCACTCCAATTCTGACNAAGTGGATGA ATCTGGTCAGTACCATTCTACTGGGAGAGGGTGGCTGGGACTATATNTATCATTGACGAT CCCACGGGTGAATTCCACTCACAAAAGCCTAGACAGAAGCCGAAGACCCCTTTGGGCT CATGCCTCAGCTTTGGTAGACGTCC</pre> |
| 3' Read Nucleotide Sequence: | <p>>OriGene 3' read for NM_004934 unedited</p> <pre>ACCGCGGGCCGCAATTCTANAGTCGAGTTTTTTTTTTTTTTTTTTTGTCTTCTCCATTAA ATAACCCAGTTTCGATCATGAAAAGGGCACTTGTCTACAGGAGCTGTGTCCAGCTTCC TCAGTTCCAAGTACTGTTCCACACTTCTCCTTGTCTGCTGAGGGTGTATATCCACT TACTCAGGAAGCAAATCCACAAGGTGCAAGAACTGACCCCTAAGTTGTTCTTTCAGA TTCTATTTCTCCATAGAGTTCAGCTAACTTTTTAAACTCGGGTCCCAAGTNNCTNNCAA GGGTAGTGATANNNNNNNTNTTCCCNCTNNTTCTTCTTTNCTTTCTTCTTTTTTC GGCCTTTTCTCTCCTCCCCCTCCCCCTTCCCTTCCCCCTCCCCCTCCCTCCCTC GCTCCCTTCTCCCTTCTTCTCCCTCCCCCTCCTTCCCCCCCCCCCCCTCCCCCTTT CCTCCCTCCTCCCTCCTCCCTCCTCCCTCCTTCCCTTTCTCCCTCCCCCTCCCC TCCTTCTCCCTCCCTCCTCCCTCCTCCCTTCCCTTCCCTTCCCTCCCCCGTCCCCCTCCTC CCCCTTTTCCCCCGTCCCTCCTTTCTCCCCCGTTCCTTCTACCTTTTTTCCCT CCCTGTCTTCTTCTTCTTCTGCTTCTCCCTCCTGGTCCCGTTTTCCCTTCCCTCCT TTTCTCCCTTTTCTTCCCTTCTTCTCCTCCGCCCCATTCCCCATTGCTTTCATA TCACCGCTACTTCTCCATTATTTCCACCCCTTATTACCCTCCCCACCCCCCTC TCATCCCTTTTTTTTACCCACCCCCCCCCACCCCTATCCCTATCTTTTTTCTTCC CCTCTCTCCCTCTCCACTCACTCCCCCATCTCTCCGCCCCATGTTCTATAG</pre> |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_004934 |
| Insert Size: | 2930 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_004934.2](#), [NP_004925.1](#)

RefSeq Size: 2944 bp

RefSeq ORF: 2373 bp

Locus ID: 1016

UniProt ID: [Q13634](#)

Cytogenetics: 5p14.3

Domains: Cadherin_C_term, CA

Protein Families: Transmembrane

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 (1) encodes the longest isoform (1). Variants 1, 3, 5, 6, and 7 encode the same protein (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.