

## Product datasheet for **SC326410**

### PCDH15 (NM\_001142767) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PCDH15 (NM_001142767) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCDH15
Synonyms:	CDHR15; DFNB23; USH1F
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001142767, the custom clone sequence may differ by one or more nucleotides

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TCAGAAGTAACAAATATGAAATCACATCTGAACAAAACAAGGGGAGTTGAACAATATT
GTCGAGGGAACGAAAAACAATCTCACAGTCAATCTACTTCACTG
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<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_001142767
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_001142767.1, NP_001136239.1</u>
<b>RefSeq Size:</b>	6901 bp
<b>RefSeq ORF:</b>	5748 bp
<b>Locus ID:</b>	65217
<b>Cytogenetics:</b>	10q21.1
<b>Protein Families:</b>	Druggable Genome, Transmembrane

**Gene Summary:**

This gene is a member of the cadherin superfamily. Family members encode integral membrane proteins that mediate calcium-dependent cell-cell adhesion. It plays an essential role in maintenance of normal retinal and cochlear function. Mutations in this gene result in hearing loss and Usher Syndrome Type 1F (USH1F). Extensive alternative splicing resulting in multiple isoforms has been observed in the mouse ortholog. Similar alternatively spliced transcripts are inferred to occur in human, and additional variants are likely to occur. [provided by RefSeq, Dec 2008]

Transcript Variant: This variant (F) lacks 4 alternate in-frame exons, compared to variant A. The resulting isoform (CD1-8) has the same N- and C-termini but lacks four internal segments, compared to isoform CD1-1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on orthologous data.