

Product datasheet for **SC329087**

SLC26A5 (NM_001167962) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC26A5 (NM_001167962) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC26A5
Synonyms:	DFNB61; PRES
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001167962, the custom clone sequence may differ by one or more nucleotides

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ATGGATCATGCTGAAGAAATGAAATCCTTGCAGCAACCCAGAGGTACTATGTGGAAAGG
CCTATCTTTAGTCATCCGGTCTCCAGGAAAGACTACACAAAAGGACAAGGTTCTGAT
TCCATTGCGGATAAGCTGAAACAGGCATTACATGTACTCCTAAAAAATAAGAAATATC
ATTTATATGTTCTACCCATAACTAAATGGCTGCCAGCATACAAATTCAAGGAATATGTG
TTGGGTGACTTGGTCTCAGGCATAAGCACAGGGGTGCTTCAGCTTCCTCAAGGCTTAGCC
TTTGCAATGCTGGCAGCTGTGCCTCCAATATTTGGCCTGTAATCTTCATTTTACCCTGTT
ATCATGTATTGTTTTCTTGAACCTCCAGACACATATCCATAGGTCTTTTGCTGTTATT
AGCCTGATGATTGGTGGTGTAGCTGTTTCGATTAGTACCAGATGATATAGTCATTCCAGGA
GGAGTAAATGCAACCAATGGCACAGAGGCCAGAGATGCCTTGAGAGTGAAAGTCGCCATG
TCTGTGACCTTACTTTCAGGAATCATTTCAGTTTTGCCTAGGTGTCTGTAGGTTTGGATT
GTGGCCATATATCTCACAGAGCCTCTGGTCCGTGGGTTTACCACCGCAGCAGCTGTGCAT
GTCTTCACCTCCATGTTAAATATCTGTTTGGAGTTAAACAAAGCGGTACAGTGGAATC
TTTTCCGTGGTGTATAGTACAGTTGCTGTGTTGCAGAATGTTAAACCTCAACGTGTGT
TCCTAGGCGTCGGGCTGATGGTTTTGTTGCTGTTGGGTGGCAAGGAGTTTAAATGAG
AGATTTAAAGAGAAATGCCGGCGCCTATTCTTTAGAGTTCTTTGCGGTGCGTAATGGGA
ACTGGCATTTCAGCTGGGTTTAACTTGAAAGAATCATACAATGTGGATGTCGTTGGAACA
CTTCCTTAGGGCTGCTACCTCCAGCCAATCCGGACACAGCCTCTCCACCTTGTGTAC
GTAGATGCCATTGCCATAGCCATCGTTGGATTTTCAGTGACCATCTCCATGGCCAAGACC
TTAGCAATAAACATGGCTACCAGTTGACGGCAATCAGGAGCTCATTGCCCTGGGACTG
TGCAATTCCATTGGCTCACTCTTCCAGACCTTTTCAATTCATGCTCCTTGTCTCGAAGC
CTTGTTTCAGGAGGGAACCGGTGGGAAGACACAGCTTGCAAGTTGTTTGGCCTCATTATG
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CTTACCCTTTTGTGCTCCTTGTTCCTGGGATTGGACTATGGTTTGATCACTGCTGTG
ATCATTGCTCTGCTGACTGTGATTACAGAACACAGAGTCCAAGCTACAAAGTCCTTGA
AAGCTTCTGAACTGATGTGTATATTGATATAGACGCATATGAGGAGGTGAAAGAAAT
CCTGGAATAAAAAATTTCAAATAAATGCACCAATTTACTATGCAATAGCGACTTGAT
AGCAATGCATTAACGAAAGACTGGAGTGAACCCAGCAGTCATCATGGGAGCAAGGAGA
AAGGCCATGCGGAAGTACGCTAAGGAAGTCGGAATGCAATATGGCCAACGCAACTGTT
GTCAAAGCAGATGCAGAAGTAGATGGAGAGGATGCTACCAAGCCTGAAGAAGAGGATGGT
GAAGTAAATATCCCCAATAGTGATCAAAAGCACATTTCTGAGGAAATGCAAAGATTT
ATGCCCCCAGGGGATAACGTCCCACTGTCAATTTGGATTTCACTCAAGTCAATTTTATT
GATTCTGTTGGAGTGAAACTCTGGCAGGGATTGTAAAGAATATGGAGACGTCGGTATA
TATGTATACTTAGCAGGATGCAGTGCACAAGTTGTGAATGACCTCACTCGGAATAGATTT
TTTGAAATCCTGCCCTATGGGAGCTGCTGTTCCACAGCATTATGATGCAGTTTTAGGC
AGCCAACCTTAGAGAGGCACTTGTGAACAGGAAGCCTCGGCTCCCCCTTCCCAGGAGGAC
TTGGAGCCCAATGCCACTCCTGCCACTCCTGAGGCATAG
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Restriction Sites: Please inquire

ACCN: NM_001167962

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:	<u>NM_001167962.1, NP_001161434.1</u>
RefSeq Size:	2601 bp
RefSeq ORF:	2139 bp
Locus ID:	375611
UniProt ID:	<u>P58743</u>
Cytogenetics:	7q22.1
Protein Families:	Transmembrane
Gene Summary:	This gene encodes a member of the SLC26A/SulP transporter family. The protein functions as a molecular motor in motile outer hair cells (OHCs) of the cochlea, inducing changes in cell length that act to amplify sound levels. The transmembrane protein is an incomplete anion transporter, and does not allow anions to cross the cell membrane but instead undergoes a conformational change in response to changes in intracellular Cl⁻ levels that results in a change in cell length. The protein functions at microsecond rates, which is several orders of magnitude faster than conventional molecular motor proteins. Mutations in this gene are potential candidates for causing neurosensory deafness. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Nov 2009] Transcript Variant: This variant (e) lacks an alternate in-frame exon in the 3' coding region, compared to variant a. The resulting isoform (e) lacks an internal segment, compared to isoform a.