

Product datasheet for **SC119893**

SLC26A4 (NM_000441) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC26A4 (NM_000441) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC26A4
Synonyms:	DFNB4; EVA; PDS; TDH2B
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_000441, the custom clone sequence may differ by one or more nucleotides

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ATGGCAGCGCCAGGCGGCAGGTCGGAGCCGCCGAGCTCCCCGAGTACAGCTGCAGCTACATGGTGTGCG
GGCCGGTCTACAGCGAGCTCGCTTTCAGCAACAGCACGAGCGGCGCCTGCAGGAGCGCAAGACGCTGCG
GGAGAGCCTGGCCAAGTGTGCTGAGTTGTTCAAGAAAGAGAGCCTTTGGTGTGCTAAAGACTCTTGCCCC
ATCTTGAGTGGCTCCCCAAATACCGAGTCAAGGAATGGCTGCTTAGTGACGTCAATTCGGGAGTTAGTA
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TTTCCAGTGGTGAGTTAATGGTGGGATCTGTTGTTCTGAGCATGGCCCCGACGAACACTTTCTCGTAT
CCAGCAGCAATGGAAGTGTATTAATACTACTATGATAGACACTGCAGCTAGAGATACAGCTAGAGTCTCT
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ACCAAGGAAATAGAGATTCAAGTGGATTGGAACCTGAGCTTCCAGTCAAAGTGAACGTTCCCAAAGTGC
CAATCCATAGCCTTGTGCTTGACTGTGGAGCTATATCTTCTGGACGTTGTTGGAGTGAGTCACTGCG
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GAAAAGCTGGAGCAATGCGGGTCTTTGACGACAACATTAGAAAGGACACATTCTTTTGGACGGTCCATG
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TCTCATTGAGGATTGTAAGATACCTTGAATTAATAGAAACAGAGCTGACGGAAGAAGAACTTGATGTC
CAGGATGAGGCTATGCGTACACTTGCATCCTGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000441 unedited
 AGCATTTTGTAAACGACTCACTTATAGGGCGGCCGAATTCGCACGAGGACAGGTCAT
 GGCAGCGCCAGGCGGCAGGTCCGAGCCGCCGAGCTCCCCGAGTACAGCTGCAGCTACAT
 GGTGTCGCGGCCGGTCTACAGCGAGCTCGCTTTCCAGCAACAGCACGAGCGGCGCCTGCA
 GGAGCGCAAGACGCTGCGGGAGAGCCTGGCCAAGTGTGCAGTTGTTCAAGAAAGAGAGC
 CTTTGGTGTGCTAAAGACTCTTGTGCCATCTTGGAGTGGCTCCCCAAATACCGAGTCAA
 GGAATGGCTGCTTAGTGACGTCAATTCGGGAGTTAGTACTGGGCTAGTGGCCACGCTGCA
 AGGGATGGCATATGCCCTACTAGCTGCAGTTCCTGTCGGATATGGTCTCTACTCTGCTTT
 TTTCCCTATCCTGACATACTTTATCTTTGGAACATCAAGACATATCTCAGTTGGACCTTT
 TCCAGTGGTGAGTTAATGGTGGGATCTGTTGTTCTGAGCATGGCCCCGACGAACACTT
 TCTCGTATCCAGCAGCAATGGAAGTGTATTAATACTACTATGATAGACACTGCAGCTAG
 AGATACAGCTAGAGTCTGATTGCCAGTGCCTGACTCTGCTGGTTGGAATTATACAGTT
 GATATTTGGTGGCTTGAGATTGATTCATAGTGGTACTTGGCAGATCCTTTGGNTGG
 TGGCTTCAACACAGCTGCTGGCTTCCAAGTGTGGTCTCACAGCTAAAGATTGCTCTCCA
 TGTTTCAACCAAAAACTACAATGGAGTTCTCTCTATTATCTATACGCTGGGTGAGATTTT
 TCAAAATATGGTGATACCAANTCTGCTGATTCACTGCTGGATGCTCACCATTGCGTCTGT
 AGGCAGGTAAGGATTAATGATCGGTTANACCAAAATCCCATCCTCATCTATGAAG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000441 unedited
 CAATCCTTGACCCGCGCCCGCAATTTAGGAGCGAGTTTTTTTTTTTTTTTTTTGAGACG
 GAGTCTTGCTCTGTGCGCCAGGCTGGAGTGCAGTGGCACGACCTCGGCTCACTGCAAGCT
 CCGCCTCCCGGTTACGCCATTCTCCTGCCTTAGCCTCCAAATAGCTGGGACTACAGG
 CGCCCGCAGCCACCACGCTAGGCTAATTTCTTTTTTTCTATTTTATGAGAGACGGGT
 TTTACCATGTTAGCCAGGATGGTCTCGATCTCCTGACCTCGTGATCCACCCGCTCGGCC
 TCCCAAGTGCTGGGATTACAGGCATGAGCCACCGCGCCTGGCCTACATCACTCTTTAG
 CGAGATGATTTGTTGTCAATATAAGCAAGTAGTGCTGTGAAAAAGAGGCAGCATTATAAT
 CCTAGTTATGCTGTAACCAGATTTACAACCAGAATTCAGGATTAACCCATTTGTATGATC
 ATTAATCCTATTCTTTAGAAATAGACACATTGTTTCTGGTTGTATTTAGAAGAAAAAC
 AGAGAAGCCATTCTATCTTTAGGCAGGGTGACTGCAGGACTTGAGTGTGCACAAATTTT
 GGTAAACGCAGGGGATCCTGAAACCAATCCCTGGAGTATACCCAGGGATGATGTCGTTTT
 CAATCAGCCAGACATTCTCAATTGGGGACCTGGGGATTACCTTTTTTTTTTACAATGACG
 TCCAACCTCATTTCTCCCTGTGAAAAATATGGGAAAAGGTTCCCAAGAACAAAGCCCCG
 CGGTTGTATATAATATCTTACAAAAATGTTGGTACCTTCCGACAAAACCTAACCTCCGC
 AAAGTTTTCCCCCACTTTGGGCCAAAAAACCCGGAATTTACGTATGTCACCTTCCCAAA
 GAAGGTCTCTAAATGGAGCCATTACAAAGTTCTGCTTCTACCAACCCATCTACACCC

Restriction Sites:

NotI-NotI

ACCN:

NM_000441

Insert Size:

4700 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:	<u>NM_000441.1, NP_000432.1</u>
RefSeq Size:	4930 bp
RefSeq ORF:	2343 bp
Locus ID:	5172
UniProt ID:	<u>O43511</u>
Cytogenetics:	7q22.3
Domains:	Sulfate_transp, STAS
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	Mutations in this gene are associated with Pendred syndrome, the most common form of syndromic deafness, an autosomal-recessive disease. It is highly homologous to the SLC26A3 gene; they have similar genomic structures and this gene is located 3' of the SLC26A3 gene. The encoded protein has homology to sulfate transporters. [provided by RefSeq, Jul 2008]