

Product datasheet for **RC216324**

SLC26A5 (NM_206884) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC26A5 (NM_206884) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC26A5
Synonyms:	DFNB61; PRES
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC216324 representing NM_206884
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATCATGCTGAAGAAAATGAAATCCTTGCAGCAACCCAGAGTACTATGTGGAAAGGCCTATCTTTA
 GTCATCCGGTCTCCAGGAAAGACTACACACAAAGGACAAGTTCTGATTCCATTGCGGATAAGCTGAA
 ACAGGCATTACATGTACTCCTAAAAAATAAGAAATATCATTTATATGTTCTACCCATAACTAAATGG
 CTGCCAGCATACAAATCAAGGAATATGTGTTGGGTGACTTGGTCTCAGGCATAAGCACAGGGGTCTTC
 AGCTTCTCAAGGCTTAGCCTTTGCAATGCTGGCAGCTGTGCCTCCAATATTTGGCCTGACTCTTCATT
 TTACCCTGTTATCATGTATTGTTTTCTTGAACCTCCAGACACATATCCATAGGTCCTTTTGCTGTTATT
 AGCCTGATGATTGGTGGTGTAGCTGTTTCGATTAGTACCAGATGATATAGTCATTCCAGGAGGAGTAAATG
 CAACCAATGGCACAGAGGCCAGAGATGCCTTGAGAGTGAAGTGCCTCATGTCTGTGACCTTACTTTCAGG
 AATCATTACAGTTTGCCTAGGTGTCTGTAGGTTTGGATTGTGGCCATATATCTCACAGAGCCTCTGGTC
 CGTGGGTTTACCACCGCAGCAGCTGTGCATGTCTTCCACCTCCATGTTAAAATATCTGTTTGGAGTAAAA
 CAAAGCGGTACAGTGAATCTTTTCCGTGGTGTATAGTACAGTTGCTGTGTTGCAGAATGTTAAAAACCT
 CAACGTGTGTTCCCTAGGCGTCGGGCTGATGGTTTTGGTTTTGCTGTTGGGTGGCAAGGAGTTTAAATGAG
 AGATTTAAAGAGAAAATGCCGGCGCCTATTCCTTTAGAGTTCTTTGCGGTGTAATGGGAACTGGCATT
 CAGCTGGGTTTAACTGAAAGAATCATACAATGTGGATGTCGTTGGAACACTTCTCTAGGGCTGTACC
 TCCAGCCAATCCGGACACCAGCCTTCCACCTTGTGTACGTAGTCCATTGCCATAGCCATCGTTGGA
 TTTTCAGTGACCATCTCCATGGCCAAGACCTTAGCAAAATAACATGGCTACCAGGTTGACGGCAATCAGG
 AGCTCATTGCCCTGGGACTGTGCAATTCATTGGCTCACTCTCCAGACCTTTTCAATTTGATGCTCCTT
 GTCTCGAAGCCTTGTTTCCAGGAGGAACCGTGGGAAGACACAGCTTGCAGGTTGTTTGGCCTCATTAAATG
 ATTCTGCTGGTCAATTAGCAACTGGATTCTCTTTGAATCATTGCCCCAGGCTGTGCTGTGCGCCATTG
 TGATTGTCAACCTGAAGGGAATGTTATGCAGTCTCAGATCTCCCTTTTTCTGGAGAACCAGCAAAAT
 AGAGCTGACCATCTGGCTTACCCTTTTGTGCTCCTTGTCTGGGATTGGACTATGGTTTGATCACT
 GCTGTGATCATTGCTCTGCTGACTGTGATTTACAGAACACAGAGCTTTCATACAGAGATGACCAGAAGAT
 GGAGACCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC216324 representing NM_206884
 Red=Cloning site Green=Tags(s)

MDHAEENEILAAATQRYYYVERPIFVSHPLVQERLHTKDKVPDSIADKLKQAFCTPKKIRNIIYMFLLPITKW
 LPAYKFKEYVLDLVSGISTGVLQPLQGLAFAMLAAPVPIFGLYSSFPVIMYCFGLTSRHSISIGPFAVI
 SLMIGGVAVRLVPDDIVIPGGVNATNGTEARDALRVKVMASVTLTSGIIQFCLGVCRFGFVAIYLTEPLV
 RGFTTAAAVHVFTSMLKYLFGVKTKRYSGIFSVVYSTVAVLQNVKLNVCVSLGVGLMVFLLGGKEFNE
 RFKEKLPAPIPLEFFAVVMGTGISAGFNLKESYNVDVVGTLPLGLLPPANPDTSLFHLVYVDAIAIAIVG
 FSVTISMAKTLANKHGYQVDGNQELIALGLCNSIGSLFQTFSSISCSLSRSLVQEGTGKTLQAGCLASLM
 ILLVILATGFLFESLPQAVLSAIVIVNLMGMFMQFSDLPPFWRTSKIELTIWLTTFVSSLFLGLDYGLIT
 AVIIALLTVIYRTQSFHTEMTRWRP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8064_f04.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_206884

ORF Size: 1548 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_206884.3](#)

RefSeq Size: 1965 bp

RefSeq ORF: 1551 bp

Locus ID: 375611

UniProt ID: [P58743](#)

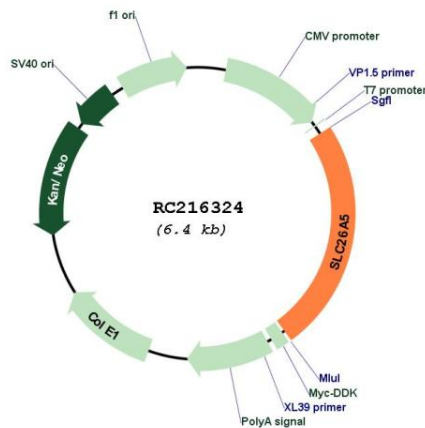
Cytogenetics: 7q22.1

Protein Families: Transmembrane

MW: 56.3 kDa

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]

Product images:



Circular map for RC216324