

Product datasheet for **RG216324**

SLC26A5 (NM_206884) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SLC26A5
Synonyms:	DFNB61; PRES
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence: >RG216324 representing NM_206884
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGATCATGCTGAAGAAAATGAAATCCTTGCAGCAACCCAGAGGTACTATGTGGAAGGCCTATCTTTA
 GTCATCCGGTCCTCCAGGAAAGACTACACACAAAGGACAAGGTTCTGATTCCATTGCGGATAAGCTGAA
 ACAGGCATTACATGTACTCTAAAAAATAAGAAATATCATTTATATGTTCTACCCATACTAAATAGG
 CTGCCAGCATACAAATTAAGGAATATGTGTTGGGTGACTTGGTCTCAGGCATAAGCACAGGGGTGCTTC
 AGCTTCTCAAGGCTTAGCCTTTGCAATGCTGGCAGCTGTGCCTCCAATATTTGGCCTGTACTCTTCATT
 TTACCCTGTTATCATGTATTGTTTTCTTGAACCTCCAGACACATATCCATAGGTCCTTTTGTCTGTATT
 AGCCTGATGATTGGTGTAGCTGTTGATTAGTACCAGATGATATAGTCATTCCAGGAGGAGTAAATG
 CAACCAATGGCACAGAGGCCAGAGATGCCTTGAGAGTGAAAGTCGCCATGTCTGTGACCTTACTTTCAGG
 AATCATTGAGTTTGCCTAGGTGTCTGTAGGTTTGGATTGTGGCCATATATCTCACAGAGCCTCTGGTC
 CGTGGGTTTACCACCGCAGCAGCTGTGCATGTCTTACCTCCATGTTAAATATCTGTTTGGAGTTAAAA
 CAAAGCGGTACAGTGGAATCTTTCCGTGGTGTATAGTACAGTTGCTGTGTGAGAATGTTAAAAACCT
 CAACGTGTGTTCCCTAGGCGTCGGGCTGATGGTTTTGTTGCTGTTGGGTGGCAAGGAGTTTAAATGAG
 AGATTTAAAGAGAAATTGCCGGCGCCTATTCCTTTAGAGTTCTTTGCGGTCGTAATGGGAAGTGGCATT
 CAGCTGGGTTTAACTTGAAAGAATCATACAATGTGGATGTCGTTGGAACACTTCTCTAGGGCTGCTACC
 TCCAGCCAATCCGACACACAGCCTCTTCCACCTGTGTACGTAGATGCCATTGCCATAGCCATCGTTGGA
 TTTTCAGTGACCATCTCCATGGCCAAGACCTTAGCAAATAAACATGGCTACCAGGTTGACGGCAATCAGG
 AGCTCATTGCCCTGGGACTGTGCAATTCATTGGCTCACTCTTCCAGACCTTTTCAATTTTCATGCTCCTT
 GTCTCGAAGCCTTTTTCAGGAGGGAACCGGTGGGAAGACACAGCTTGCAGGTTGTTTGGCCTCATTAAATG
 ATTCTGCTGGTCATATTAGCAACTGGATTCTCTTTGAATCATTGCCCCAGGCTGTGCTGTGCGGCCATTG
 TGATTGTCAACCTGAAGGGAATGTTATGCAAGTCTCAGATCTCCCTTTTCTGGAGAACCAGCAAAAT
 AGAGCTGACCATCTGGCTTACCCTTTTGTGCTCCTCTTGTCTGGGATTGGACTATGGTTTGATCACT
 GCTGTGATCATTGCTCTGCTGACTGTGATTACAGAACACAGAGCTTTCATACAGAGATGACCAGAAGAT
 GGAGACCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG216324 representing NM_206884
 Red=Cloning site Green=Tags(s)

MDHAENEILAAATQRYVERPIFVSHPLQERLHTKDKVPDSIADKLKQAFCTPKKIRNIIYMLPITKW
 LPAYKFKEYVLGDLVSGISTGVLQLPQGLAFAMLAAPPIFGLYSSFPVIMYCFGLTSRHSIGPFAVI
 SLMIGGVAVRLVPDDIVPGGVNATNGTEARDALRVKVMASVTLLSGIIQFCLGVCRFVFAIYLTPLV
 RGFTTAAAVHVFTSMLKYLFGVKTGRYSIFSVVYSTAVLQNVKNLNVCSLGVGLMVFLGLGGKEFNE
 RFKEKLPAPIPLEFFAVVMGTGISAGFNLKESYNVDVVGTLPLGLLPPANPDLSLHLYVYDAIAIAIVG
 FSVTISMAKTLANKHYQVDGNQELIALGLCNSIGSLFQTFISCSLSRSLVQEGTGKTLQAGCLASLM
 ILLVILATGFLFESLPQAVLSAIVIVNLKGMFMQFSDLPFFWRTSKIELTIWLTTFVSSFLGLDYGLIT
 AVIIALLTVIYRTQSFHTEMTRWRP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_206884.3](#)

RefSeq Size: 1965 bp

RefSeq ORF: 1551 bp

Locus ID: 375611

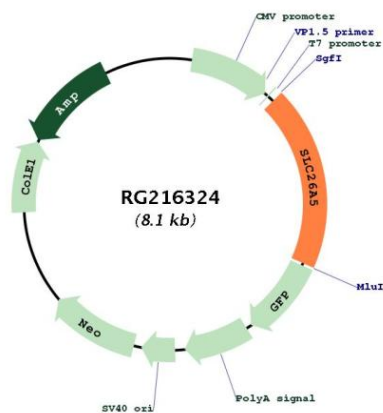
UniProt ID: [P58743](#)

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]

Product images:



Circular map for RG216324