

Product datasheet for **RC222532**

SLC26A4 (NM_000441) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC26A4 (NM_000441) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC26A4
Synonyms:	DFNB4; EVA; PDS; TDH2B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC222532 representing NM_000441
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGCAGCGCCAGGCGGCAGGTCGGAGCCGCCGAGCTCCCCGAGTACAGCTGCAGCTACATGGTGTGCG
 GGCCGGTCTACAGCGAGCTCGCTTTCCAGCAACAGCACGAGCGCGCCTGCAGGAGCGCAAGACGCTGCG
 GGAGAGCCTGGCCAAGTCTGCAAGTGTTCAGAAAGAGAGCCTTTGGTGTGCTAAAGACTCTTGTGCC
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 TTTCCAGTGGTGAGTTAATGGTGGGATCTGTTGTTCTGAGCATGGCCCCGACGAACACTTTCTCGTAT
 CCAGCAGCAATGGAAGTGTATTAATACTACTATGATAGACACTGCAGCTAGAGATACAGCTAGAGTCTCT
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 ACCAAGGAAATAGAGATTCAAGTGGATTGGAACCTGAGCTTCCAGTCAAAGTGAACGTTCCCAAAGTGC
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 ATGCTATACTCTATCTACAGAACCAAGTGAATCTCAAGAGGGTCAAGGTTCCATTTTGAACAGATCAC
 TCTCATTGAGGATTGTAAAGATACCCTTGAATTAATAGAAACAGAGCTGACGGAAGAAGAACTTGATGTC
 CAGGATGAGGCTATGCGTACACTTGATCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC222532 representing NM_000441
 Red=Cloning site Green=Tags(s)

MAAPGGRSEPPQLPEYSCSYMVSVPVYSELAQQQHERRLQERKTLRESLAKCCSCSRKRAFGVLKTLVP
 ILEWLPKYRVKEWLLSDVISGVSTGLVATLQGMAYALLAAMPVGYGLYSAFFPILTYFIFGTSRHISVGP
 FPVVSMLVGSVLSMAPDEHFLVSSSNGTVLNTTMIDTAARDTARVLIASALTLLVGIIQLIFGGLQIGF
 IVRYLADPLVGGFTTAAAFQVLVSQLKIVLNVSTKNYNGVLSIIYTLVEIFQNIQDNLADFTAGLLTIV
 VCMAYKELNDRFRHKIPVPIPIEVITIIATAISYGANLEKNYNAGIVKSIPRGFLPPELPPVSLFSEML
 AASFSAIVVAYAIASVSGKVYATKYDYTIDGNQEFIAFGISNIFSGFFSCFVATTALSRVAVQESTGGKT
 QVAGIISAAIVMIAIALGKLEPLQKSVLAADVIANLKGFMQLCDIPRLWRQNKIDAVIWWFTCIVSI
 ILGLDLGLLAGLIFGLLTVVLRVQFPSWNLGSIPTDIYKSTKNYKNIEEPQGVKILRFSSPIFYGNVD
 GFKKCIKSTVGFDAIRVYNKRLKALRKIQKLKSGQLRATKNGIISDAVSTNNAFEPDEDIEDLEELDIP
 TKEIEIQVDWNSLPVKVNVKVPPIHSLVDCGAISFLDVVGVRSLRVIVKEFQRIDVNVYFASLQDYVI
 EKLEQCGFFDDNIRKDTFFLTVHDAILYLNQNVKSQEGQGSILETITLIQDCKDTLELIELELTEEELDV
 QDEAMRTLAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6170_f08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000441

ORF Size: 2340 bp

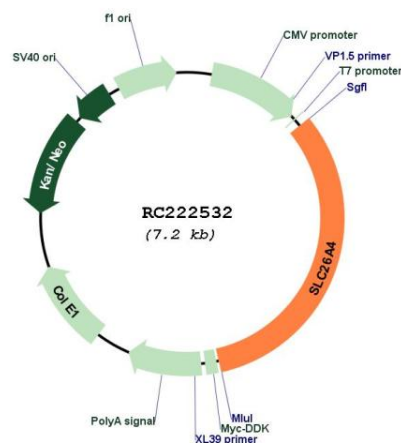
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

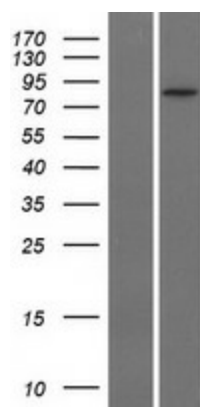
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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:	<u>NM_000441.2</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
MW:	85.5 kDa
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]

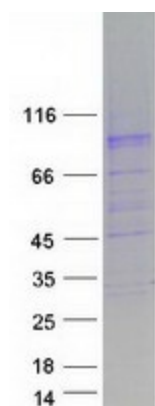
Product images:



Circular map for RC222532



Western blot validation of overexpression lysate (Cat# [LY424715]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222532 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SLC26A4 protein (Cat# [TP322532]). The protein was produced from HEK293T cells transfected with SLC26A4 cDNA clone (Cat# RC222532) using MegaTran 2.0 (Cat# [TT210002]).