

Product datasheet for **RC202286**

SLC41A3 (NM_001008485) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC41A3 (NM_001008485) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC41A3
Synonyms:	SLC41A1-L2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC202286 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATGGGACAGAGACCCGGCAGCGGAGGCTGGACAGCTGTGGCAAGCCAGGGAGCTGGGGCTTCCTC
 ACCCCCTCAGCACAGGAGGACTCCCTGTAGCCTCAGAAGATGGAGCTCTAGGGCCCTGAGAGCCAAAG
 CGTGACCCCCAAGCCACTGGAGACTGAGCCTAGCAGGGAGACCGCTGGTCCATAGGCCCTTCAGGTGACC
 GTGCCCTTCATGTTTGCAGGCCTGGGACTGTCTGGGCCGGCATGCTTCTGGACTATTTCCAGCACTGGC
 CTGTGTTTGTGGAGGTGAAAGACCTTTTGACATTGGTGCCGCCCTGGTGGGCTGAAGGGGAACCTGGA
 GATGACTGGCATCCAGACTCTCCACAGCTGCCAAGCTGGACAAATTGATGACCCCCAGGAGCAGCAC
 AGAGTCATCAGCAGCAACCTGGCCCTCATCCAGGTGCAGGCCACTGTCGTGGGGCTTTGGCTGCTGTGG
 CTGCGCTGCTGTTGGCGTGGTGTCTCGAGAGGAAGTGGATGTCGCCAAGGTGGAGTTGCTGTGTGCCAG
 CAGTGTCTCACTGCCTTCCTTGACGCTTTGCCCTGGGGTGTGATGGTCTGTATAGTGATTGGTGCT
 CGAAAGCTCGGGGTCAACCCAGACAACATTGCCACGCCATTGCAGCCAGCTGGGAGACCTCATCACAC
 TGTCCATTCTGGCTTTGGTTAGCAGCTTCTTCTACAGACACAAAGATAGTCGGTATCTGACGCCGCTGGT
 CTGCCTCAGCTTTGCGGCTCTGACCCCACTGTGGGTCTCATTGCCAAGCAGAGCCACCCATCGTGAAG
 ATCCTGAAGTTTGGCTGGTTCCAATCATCCTGGCCATGGTCACTCAGCAGTTTCGGAGGACTCATCTTGA
 GCAAAACCGTTTCTAAACAGCAGTACAAAGGCATGGCGATATTTACCCCGTCATATGTGGTGTGGTGG
 CAATCTGGTGGCATTGAGACCAGCCGAATCTCAACCTACCTGCACATGTGGAGTGCACCTGGCGTCCTG
 CCCCTCCAGATGAAGAAATCTGGCCCAACCCGTGTTCTACTTTCTGCAGCTCAGAAATCAATTCATGT
 CAGCTCGAGTCTGCTCTTGTGCTGGTGGTCCCAGGCCATCTGATTTTCTTCTACATCATCTACCTGGTGGA
 GGGTCAGTCAGTCATAAACAGCCAGACCTTTGTGGTGTCTACCTGCTGGCAGGCCTGATCCAGGTGACA
 ATCCTGTGTACCTGGCAGAAGTGATGGTTCGGCTGACTTGGCACCAGGCCCTGGATCCTGACAACCACT
 GCATCCCTACCTTACAGGGCTGGGGGACCTGCTCGGTTCAAGCTCCGTGGGCCACACTGCTGCTGTGCC
 AAGAAGGTGTACAGCCTCCCAGGATGGGGCTCATAACAACCTTCATCTGCACTCAACATTTAATCGTG
 TCCTTGCTGTCTTTTATTTTCTTTTGTGTTAGCAAAAACCTCTATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC202286 protein sequence
 Red=Cloning site Green=Tags(s)

MDGTETQRRLDSCGKPGELGLPHPLSTGGLPVASEDGALRAPESQSVTPKPLETEPSRETAWSIGLQVT
 VPFMFAGLGLSWAGMLLDYFQHWPFVEVKDLLTLVPPLVGLKGNLEMTLASRLSTAANTGQIDDPQEQH
 RVISSNLALIQVQATVVGLLAAVAALLLVVSREEVDVAKVELLCASSVLTAFLAALGVLVCIVIGA
 RKLGVNPDNIATPIAASLGLITLSILALVSSFFYRHKDSRYLTPLVCLSF AALTPVWVLIQSPPIVK
 ILKFGWFPIILAMVISSFGGLILSKTVSKQYKGM AIFTPVICGVGNLVAIQTSRISTYLHMSAPGVL
 PLQMKFWPNPCSTFCTSEINMSARVLLLLVVPGLIFFYIIYLV EGQSVINSQTFVVL YLLAGLIQVT
 ILLYLA EVMVRLTWHQALDPDNHCIPYLTGLDLLGSSSVGH TAAVPRRCTASPGWGLIQPFICTQHLIV
 SLLSFYFPFCLLAKTSI

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6541_d10.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001008485

ORF Size: 1521 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_001008485.1](#), [NP_001008485.1](#)

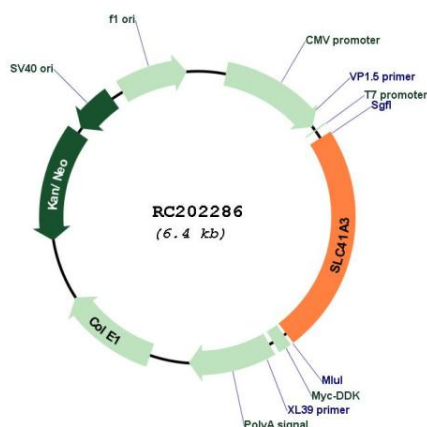
RefSeq Size: 1805 bp

RefSeq ORF: 1524 bp

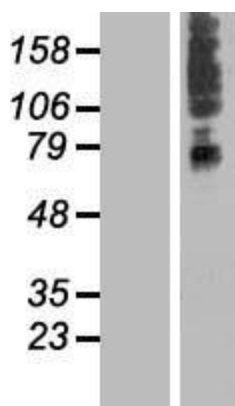
Locus ID: 54946

UniProt ID: Q96GZ6
Cytogenetics: 3q21.2-q21.3
Protein Families: Transmembrane
MW: 54.7 kDa

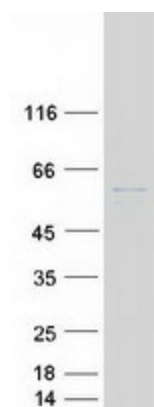
Product images:



Circular map for RC202286



Western blot validation of overexpression lysate (Cat# [LY423433]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202286 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SLC41A3 protein (Cat# [TP302286]). The protein was produced from HEK293T cells transfected with SLC41A3 cDNA clone (Cat# RC202286) using MegaTran 2.0 (Cat# [TT210002]).