

Product datasheet for **RC217255**

SLC26A1 (NM_213613) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC26A1 (NM_213613) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC26A1
Synonyms:	CAON; EDM4; SAT-1; SAT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC217255 representing NM_213613
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACGAGTCCCCTGAGCCTCTGCAGCAGGGCAGAGGGCCGGTCCGGTCCGACGGCAGCGCCAGCAC
CCCGGGTCTGCGTGAGATGCTGAAGGCCAGGCTGTGGTGCAGCTGCTCGTGCAGTGTGCTGCGTCCG
GGCCTGGTGCAGGACCTGCTCCCCGCCACGCGTGGCTGCGTCACTACCGCCCGGGAGTACCTGGCA
GGCAGCTCATGTCTGGCTGGTCATCGGCATCATCCTGGTGCCGAGGCCATCGCTACTCATTGCTGG
CCGGGCTGCAGCCATCTACAGCCTCTATACGTCCTTCTCGCCAACCTCATCTACTTCTCATGGGCAC
CTCACGGCATGTCTCCGTGGGCATCTTCAGCCTGCTTTGCCTCATGGTGGGGCAGTGGTGGACCGGGAG
CTCCAGCTGGCCGGCTTTGACCCTCCAGGACGGCTGCAGCCCGAGCCAACAGCAGCACCCCTCAACG
GCTCGGCTGCCATGCTGGACTGCGGGCGTACTGCTACGCCATCCGTGTCGCCACCGCCCTCACGCTGAT
GACCGGGCTTTACCAGGTCTCATGGGGCTCCTCCGGCTGGGCTTCGTGTCGGCCTACCTCTCACAGCCA
CTGCTCGATGGCTTTGCCATGGGGGCTCCGTGACCATCCTGACCTCGCAGCTCAAACACCTGCTGGGCG
TGCGGATCCCGCGCACAGGGGCCCGCATGGTGGTCTCACATGGCTGAGCCTGCTGCGCGGCCCGCG
GCAGGCCAACGTGTCGACGTGGTCAACAGCACGGTGTGCTGGCGGTGCTGCTAGCCGGAAGGAGCTC
TCAGACCCTACCGACACCGCTGAGGGTGCCGCTGCCACGGAGCTGCTGGTCACTCGTGGTGGCCACAC
TCGTGTCGCACTTCGGGCAGCTCCACAAGCGCTTTGGCTCGAGCGTGGTGGCGACATCCCCACGGGTTT
CATGCCCTCAGGTCCAGAGCCAGGCTGATGCAGCGTGTGGCTTTGGATGCCGTGGCCCTGGCCCTC
GTGGTGGCCCTTCTCCATCTCGTGGCGGAGATGTTGCGCCGAGTACGGCTACTCTGTGCGTGCCA
ACGAGGAGTCTGGCTGTGGCTGCTGCAACGTGCTACCGCCTTCTCCACTGCTTCGCCACCGCGC
CGCCCTGGCCAAGAGCCTGGTGAAGACAGCCACTGGCTGCCGGACACAGCTGTCCAGCGTGGTCAAGCC
ACCGTGGTGTGCTGGTGTGCTGGCGCTGGCACCGCTGTTCCAGCACCTACAGCGAAGCGTGTGGCT
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CCCGGCTGACGCGCTGGTCTGGGCAGGCACCGCGCCACCTGTATGCTGGTCAACAGAGGCGGGGCTG
CTGGCTGGCGTCACTCTCGTGTCTAGCCTGGCCGGCCGACCCAACGCCACCGCCCTGCTGG
CCCGCATCGGGACACGGCCTTCTACGAGGATGCCACAGAGTTCGAGGGCCTCGTCCCTGAGCCCGGCT
GCGGGTGTCCGCTTTGGGGGCGCTGTACTATGCCAACAAGGACTTCTTCTGCAGTCACTCTACAGC
CTCACGGGCTGGACGCAGGGTGCATGGCTGCCAGGAGGAAGGAGGGGGCTCAGAGACGGGGTGGT
AGGGAGGCCCTGCCAGGGCAGGACCTGGGCCCGGTTAGCACAGGGCTGCGCTGGTGGCCGACGCGC
CGGCTTCCACACAGTGGTCACTGACTGCGCCCCGCTGCTGTTCTAGACGACGCCGTGTGAGCACGCTG
CAGGACCTGCGCCGAGACTACGGGGCCCTGGGCATCAGCCTGCTGCTAGCCTGCTGCAGCCCGCCTGTGA
GAGACATTCTGAGCAGAGGAGGCTTCTCGGGGAGGGCCCGGGGACACGGCTGAGGAGGAGCAGCTGTT
CCTCAGTGTGCACGATGCCGTGCAGACAGCAGAGCCCGCCACAGGGAGCTGGAGGCCACCGATGCCAT
CTG

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC217255 representing NM_213613
 Red=Cloning site Green=Tags(s)

MDESPEPLQQGRGPVPRRQRPAPRGLREMLKARLWCSCSCSVLCVRALVQDLLPATRWLRQYRPREYLA
 GDVMSGLVIGIILVPQAIAYSLLAGLQPIYSLYTSFFANLIYFLMGTSRHVSVGIFSLCLMVGQVVDRE
 LQLAGFDPSQDGLQPGANSSTLNGSAAMLDCGRDCYAIRVATALTLMTGLYQVLMGVLRLGFVSAYLSQP
 LLDGFAMGASVTILTSQLKHLGVRIPRHQGPMMVLTWLSLLRGAGQANVCDVVTSTVCLAVLLAAKEL
 SDRYRHRLRVPLPTELLVIVVATLVSHFQQLHKRFGSSVAGDIPTGFMPQVPEPRLMQRVALDAVALAL
 VAAAFSISLAEMFARSHGYSVRANQELLAVGCCNVLP AFLHCFATSAALAKSLVKTATGCRTQLSSVYSA
 TVVLLVLLALAPLFHDLQRSVLACVIVVSLRGALRKVWDL PRLWRMSPADALVWAGTAATCMLVSTEAGL
 LAGVILSLLSLAGRTQRPTALLARIGDTAFYEDATEFEGLVPEPGVRFVFRGGPLYANKDFFLQSLYS
 LTGLDAGCMAARRKEGGSETGVGEGGPAQGEDLGPVSTRAALVPAAGFHTVVIDCAPLLFLDAAGVSTL
 QDLRRDYALGISLLLACCSPVDRDILSRGGFLGEGPGDTAEELFLSVHDAVQTARARHRELEATDAH
 L

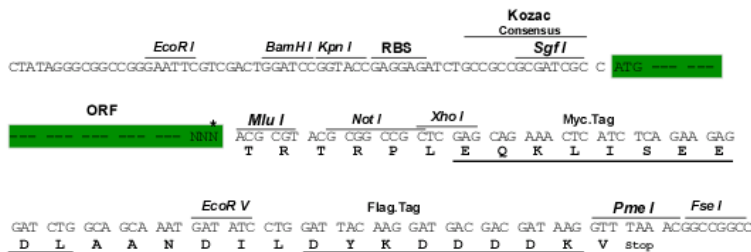
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8010_f11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_213613

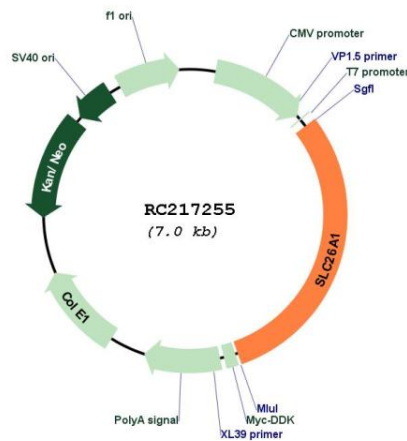
ORF Size: 2103 bp

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](#)

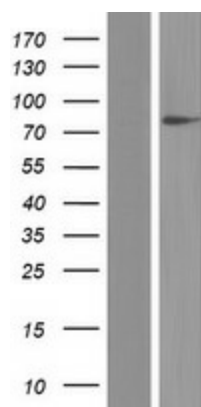
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<ol style="list-style-type: none"> 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_213613.4</u>
RefSeq Size:	3673 bp
RefSeq ORF:	2106 bp
Locus ID:	10861
UniProt ID:	<u>Q9H2B4</u>
Cytogenetics:	4p16.3
Protein Families:	Transmembrane
MW:	74.8 kDa
Gene Summary:	This gene is a member of a family of sulfate/anion transporter genes. Family members are well conserved in their genomic (number and size of exons) and protein (aa length among species) structures, but have markedly different tissue expression patterns. This gene is primarily expressed in the liver, pancreas, and brain. Three splice variants that encode different isoforms have been identified. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC217255



Western blot validation of overexpression lysate (Cat# [LY403889]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217255 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).