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Product datasheet for MR210148

Slc26a1 (NM_174870) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Slc26a1
Synonyms:	Sat1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR210148 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATGCTTCTCCTGAGCCCCAACAGAAGGGTGGGACACTGGTACTGGTCCGACGGCAGCCTCCTGTGT
CCCAGGGCTTGCTGGAAACACTGAAGGCCAGGCTGAAGAAGAGCTGCACCTGCAGTATGCCATGTGCTCA
GGCTCTGGTGCAGGGTCTGTTTCCTGCCATACACTGGCTGCCCCAGTACCGCCTTAAGGAATACCTAGCA
GGTGATGTCATGTCAGGATTGGTCATTGGCATTATCCTGGTGCCACAGGCCATAGCCTACTCACTGCTGG
CTGGGTTACAACCCATCTATAGCCTCTACACTTCCTTCTTTGCCAACCTGATCTACTTCCTCATGGGCAC
CTCCCGCCATGTTAATGTGGGCATCTTCAGCCTGCTGTGTCTCATGGTGGGTCAGGTGGTGGACAGAGAA
CTCCAGTTGGCTGGCTTTGACCCTTCCCAGGATTCTCTAGGGCCCAAGAACAATGACAGCACCCTCAACA
ACTCAGCTACAACACTGATCATTGGGCTACAGGACTGCAGACGGGACTGCTATGCCATTCGGGTTGCCAC
TGCCCTTACTCTGATGGCCGGGCTTTATCAGGTCCTCATGGGTATCCTCCGGCTGGGCTTCGTGTCTACC
TATCTCTCACAACCACTGCTCGATGGCTTTGCTATGGGAGCTTCTGTGACCATCTTGACTTCTCAGGCAA
AACACATGCTGGGTGTGCAGATCCCTCGGCACCAGGGCCTAGGCATGGTGGTCCACACATGGTTGAGCTT
GCTGCAGAATGTGGGACAGGCCAACATATGTGATGTGGTCACCAGTGCCCTGTGCCTAGGAGTGCTGCTG
GCAGCTAAGGAACTCTCAGATCGCTACCGACACCGTCTGAAGGTGCCAATACCCACAGAGTTATTTGTTA
TTGTGGTGGCCACAATTGTGTCCCATTTTGGACAGCTCCATACACGGTTTGACTCGAGGGTGGCTGGCAA
CATTCCCACTGGTTTTGTGGCCCCACAGGTACCAGACCCTAAGATAATGTGGCGTGTGGCCCTGGATGCC
ATGTCCCTGGCCCTCGTGGGCTCAGCCTTCTCCATCTCCTTGGCAGAAATGTTTGCCCGTAGTCATGGCT
ACTCTGTCAGTGCCAACCAAGAGCTGCTAGCTGTGGGCTGCTGCAATGTGCTGCCTGCCTTCTTCCACTG
TTTTGCCACTAGTGCTGCTCTGTCCAAAACTCTGGTGAAGATAGCCACTGGCTGCCAGACCCAGTTGTCC
AGTGTGGTCAGTGCCGCTGTGGTGTTGCTGGTGCTGCTGGTGCTGGCTCCACTGTTTCATGATCTGCAGC
GATGTGTGCTAGCTTGTATCATTGTTGTCAGCCTGCGGGGGGGCGCTGCGCAAGGTGAAGGATCTCCCACA
ACTTTGGCGGCTAAGCCCTGCCGATGCACTGGTCTGGGTGGCTACTGCAGCTACCTGTGTGCTAGTCAGC
ACCGAGGCTGGACTATTAGCTGGAGTGTTCTTCTCCCTGCTTAGCCTGGCAGGCCGTACACAGCGTCCAC
GGGCTGCCCTTCTTGCCCGAATTGGAGACTCCACCTTCTATGAGGATGCTGCTGAATTTGAGGGCCTCCT
GCCCCCACCTGAGGTGCGAGTGTTCCGTTTCACAGGTCCACTTTACTACGCCAACAAGGACTTCTTCCTT
CGGTCTCTCTACAGACTCACAGGGTTGGATGCAGGGCACTCAGCCACCAGGAAGGATCAGGGCCCGGAGG
TGGGTGTCAGTAACAGAAGTCTTGTTGATGGCAAGGATCTGGGTTCAGTGAGCAGTGGGGCTGGGCTGGT
GGTACCCCTGGCATTTGGTTTCCACACAGTGGTCATTGACTGTGCACCACTGCTGTTCCTGGATGTGGCT
GGCATGGCCACATTGAAAGACCTCCGCAGAGACTACAGGGCCTTGGACATCACCCTGCTTCTGGCTTGCT
GCAGTCCCTCGGTGAGAGACACGTTGAGAAAAGGGGGCTTCCTTGGGGAAGAACAGGGAGCTGAAAATGA
GCTGCTATTCCCCAGTGTGCACAGTGCTGTGGAGGCTGCATGTGCCCGCCGTGAGGAGCTGCTGGCTGCT
GACTCTGCCCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR210148 protein sequence
Red=Cloning site Green=Tags(s)

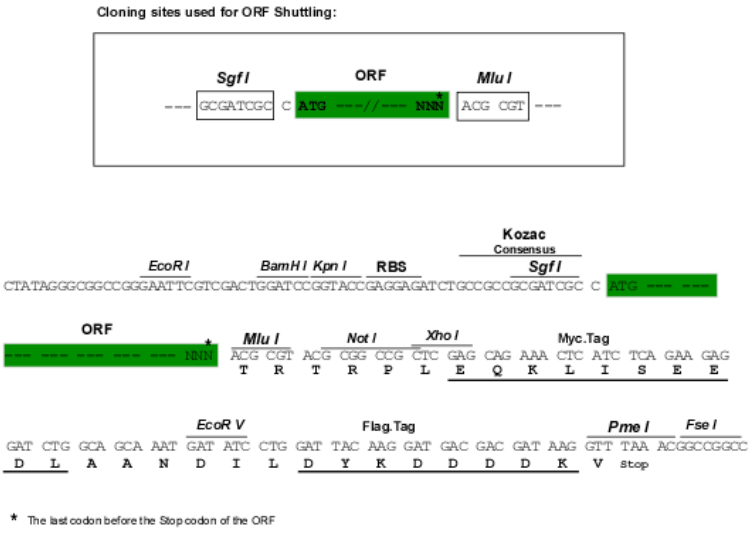
MDASPEPQQKGGTLVLVRRQPPVSQGLLETLKARLKKSCTCSMPCAQALVQGLFPAIHWLPQYRLKEYLA
GDVMSGLVIGIILVPQAIAYSLLAGLQPIYSLYTSFFANLIYFLMGTSRHVNVGIFSLLCLMVGQVVDRE
LQLAGFDPSQDSLGPKNNDSTLNNSATTLIIGLQDCRRDCYAIRVATALTLMAGLYQVLMGILRLGFVST
YLSQPLLDGFAMGASVTILTSQAKHMLGVQIPRHQGLGMVVHTWLSLLQNVGQANICDVVTSALCLGVLL
AAKELSDRYRHRLKVPIPTELFVIVVATIVSHFGQLHTRFDSRVAGNIPTGFVAPQVPDPKIMWRVALDA
MSLALVGSAFSISLAEMFARSHGYSVSANQELLAVGCCNVLPAFFHCFATSAALSKTLVKIATGCQTQLS
SVVSAAVVLLVLLVLAPLFHDLQRCVLACIIVVSLRGALRKVKDLPQLWRLSPADALVWVATAATCVLVS
TEAGLLAGVFFSLLSLAGRTQRPRAALLARIGDSTFYEDAAEFEGLLPPPEVRVFRFTGPLYYANKDFFL
RSLYRLTGLDAGHSATRKDQGPEVGVSNRSLVDGKDLGSVSSGAGLVVPLAFGFHTVVIDCAPLLFLDVA
GMATLKDLRRDYRALDITLLLACCSPSVRDTLRKGGFLGEEQGAENELLFPSVHSAVEAACARREELLAA
DSAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_174870

ORF Size:

2112 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_174870.1, NM_174870.2, NM_174870.3, NM_174870.4, NP_777359.2

RefSeq Size: 3237 bp

RefSeq ORF: 2115 bp

Locus ID: 231583

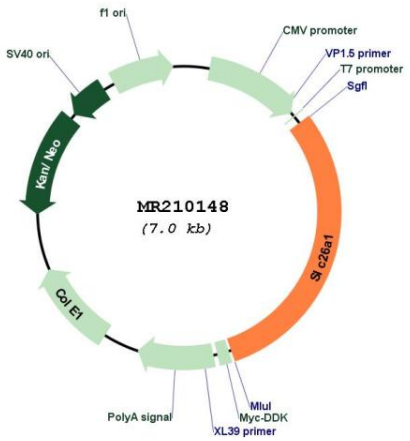
UniProt ID: P58735

Cytogenetics: 5 F

MW: 75.8 kDa

Gene Summary: Mediates sulfate transport with high affinity (PubMed:12217875, PubMed:27210743). Mediates oxalate transport (PubMed:12217875). Mediates bicarbonate transport (PubMed:27210743). Does not accept succinate as cosubstrate (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210148