

Product datasheet for **MR210388**

Slc26a2 (NM_007885) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc26a2 (NM_007885) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc26a2
Synonyms:	Dtd; ST-OB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210388 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGTCTTCAGAAAATAAAGAGCAGCATGACCTCTCACCGAGGGACTTACCTGAAGAAGCCTTTGGTTTCC
CATCTGAGCTCCCCTGGAGGCTCAAAGAAGGTCAGGCACTGACTTGAGGCAGTCTGAGACCGGTATGG
CCGGAGAGCTTTCCGTAGGATCCACATGGAGCTCCGTGAGAAACCAGACACAGACATCAAACAGTTTGTG
ATCAGAGAGCTCCAGAAGAGTTGCCAGTGCAGCGCAGCCAAAGTCAGAGACGGGGCTTTTGATTTCTTTC
CTGTTTTGCGGTGGCTCCAAAAATGACCTGAAGAAAAACATTTTAGGTGATGTGATGTCTGGCCTGAT
TGTGGGTATCCTGTTGGTGCCCACTCCATTGCTTACTCCCTGCTGGCTGGCCAGGAGCCTATATATGGT
CTATATACATCATTTTTTCCAGCATTATTTATTTCTGTTTGGTACATCCCGCCACATCTCTGTGGCA
TTTTTGGAACTGTGCCTTATGATTGGTGGGTTGTTGACCGAGAACTACATAAAGCCTGCCCTGACAC
TGATGCTACGTACATCTTCGATAGCAGTGTTCAGTGGATGTGTGGTTGTAACCATACATTAGACGGA
CTCTGTGATAAAAGCTGCTATGCAATTAATTTGGCAGCACTGTGACCTTCATGGCTGGAGTTTATCAGG
TAGCAATGGGCTTCTTTCAAGTGGGCTTTGTCTGTCTACCTCTCCGACGCCTTCTGAGCGGGTTTGT
CACTGGCGCCTCCTTACCATCCTCACGCTCAGGCCAAGTACCTCCTTGGGCTGAGCCTTCTCGGAGT
CATGGTGTGCGCTCAGTCATTACTACCTGGATCCACATCTTCAGAAACATCCGTAACACCAACATCTGTG
ATCTCATCACCAGCCTTTTATGTCTTCTGGTCTCGTCCATCCAAGAAGTCAATGAGCACTTCAAGGA
CAAGCTCAAGGCTCCAATTCGGTGCAGCTCATTGTGCTGTGGCGGCCACATTGGCTTCTATTTTGA
AACTAAATGGGAATACAATTCAGTATTGTGGACACATCCCACTGGGTTTATGCCACCAAGCAC
CAGACTGGAGCCTCATTCTAATGTGGCTGTAGATGCAATAGCTATTTCTATCATTGGTTTGTATCAC
TGTATCACTTTCTGAGATGTTTGGCAAGAAACATGGCTACACGGTCAAAGCAAACCAAGAAATGTATGCC
ATTGGCTTTTGAATATCATACCTTCTTCTTCCACTGCATAACTACTAGTGCAGCTCTTGCAAAGACAT
TGGTAAAGAGTCAACAGGCTGCCAGACGCAGCTGTGAGCTATAGTGCAGCCCTTGTCTTTTGTGGT
CCTTCTGGTAATAGCTCCTTTATTCTATCCCTTCAAAAATGTGTCCTTGGTGTGATCACTATTGAAAT
CTCCGGGGCGCACTTCTGAAATTTAGAGACCTGCCAAAGATGTGGAGGCTAAGCAGAATGGATACAGTTA
TCTGGTTTGTGACTATGCTGTCTCCGCTCTGTTAAGCACTGAAATAGGCCTGCTGGTTGGGTTTGT
TTCAATGTTCTGTGTGATCCTCCGTAAGCAAGCAAAGAATTCAGTCTTGGTTTGAAGAAGAATCT
GAAACCTTTGAATCCATTTCCACTTACAAGAACCTTCGGAGCAAGTCCGGCATCAAGTTTTCCGCTTCA
TAGCCCTCTCTACTACATAAACAAAGAGTGCTTTAAATCAGCTTGTACAAGAAAGCTCTTAACCCAGT
CTTGGTAAAGGCAGCTTGAAAAAGGCAGCAAAGAGAAAACCTCAAAGAAGAAATGGTGACCTTTCGTGGG
GACCCGGATGAAGTTTCAATGCAGCTTTCCCATGATCCCTTGGAGGTGCACACTATCGTATCGACTGTA
GTGCCATACAGTTTTTAGACACAGCAGGAATCCACACACTGAAAGAAGTTCGCCGGGATTATGAAGCCGT
TGGGATCCAGTTTTACTGGCGCAGTGCATCCTTCTGTGAGGGATTCTTGGCCAGAGGAGAATATTGC
AAAAAGGAAGAGGAAACCCTTCTTCTACAGTCTGTCTGAAGCAGTAGCCTTTGCAGAAGACTCTCAGA
ATCAGAAAGGGTGTGTGTTGTCAACGGTCTGAGTCTCTCTGGTGAC

ACGCGTACGCGCGCCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210388 protein sequence
Red=Cloning site Green=Tags(s)

MSENKEQHDLSPRDLPEEAFGFPSSELPLEAQRSGTDLRQSETGHGRRFRRIHMELREKPDTDIKQFV
 IRELQKSCQCSAAKVRDGFDFFPVLRWLPKYDLKKNILGDVMSGLIVGILLVPQSIAYSLLAGQEPIYG
 LYTSFFASIIYFLFGTSRHISVGIFFILCLMIGEVDRELHKACPDATSSSIAVFSGGCVVNHLDG
 LCDKSCYAIIKIGSTVTFMAGVYQVAMGFFQVGFVSVYLSALLSGFVTGASFTILTSQAKYLLGLSLPRS
 HGVGSVITTWIHFNRINRNTNICDLITSLCLLVLPVKELNEHFKDKLKAPIVELIVVVAATLASHFG
 KLNGNYNSSIAGHIPTGFMPKAPDWSLIPNVAVDIAIASIIGFAITVSLSEMFAKKHGYTVKANQEMYA
 IGFCNIIPSFFHCITTSAAKTLVKESTGCQTQLSAIVTALVLLVLLVIAPLFYSLQKCVLGVITIVN
 LRGALLKFRDLPKMWRLSRMDTVIWFVTLSSALLSTEIGLLVGVCFSMFCVILRTQKPKNSLLGLEEES
 ETFESISTYKNLRKSGIKVFRFIAPLYINKECFKSALYKKALNPVLKAAWKKAARKKLKEEMVTFRG
 DPDEVSMQLSHDPLEVHTIVIDCSAIQFLDTAGIHTLKEVRRDYEAVGIQVLLAQCNPSVRDSLARGEYC
 KKEEETLLFYSLSEAVFAEDSQNQKGVVNGLSLSDG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_007885

ORF Size: 2220 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.

RefSeq: [NM_007885.1](#), [NM_007885.2](#), [NP_031911.1](#)

RefSeq Size: 3863 bp

RefSeq ORF: 2220 bp

Locus ID: 13521

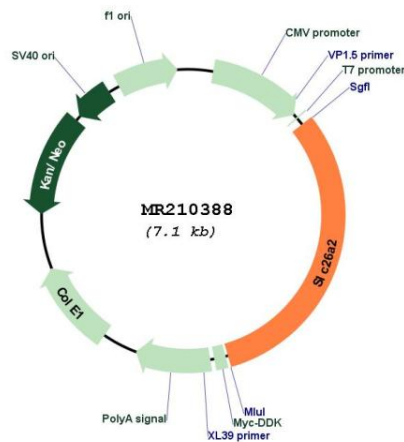
UniProt ID: [Q62273](#)

Cytogenetics: 18 E1

MW: 81.6 kDa

Gene Summary: Sulfate transporter. May play a role in endochondral bone formation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210388