

Product datasheet for **MC206364**

Slc11a2 (BC019137) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc11a2 (BC019137) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc11a2
Synonyms:	DCT1, DMT1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC019137
 CCACGCGTCCGCGCTGGCTCCTGGGATATGGAGTCGCCGGCGCGCGTGTGTGGAGGTGGCGGAGCCGAA
 TCCTATTCTAAGAGCACAGACCCCTCAGGTATCTACCATGGTGTGGATCCCTAAAGAAAAGATGCCAGACG
 ATGGCGCTTCTGGGGACCATGGAGACTCTGCCAGCCTTGGCGCCATCAACCCTGCCTACAGCAACTCATC
 CCTCCACATTCCACTGGAGACTCTGAGGAGCCCTTACCACCTACTTTGATGAGAAAATCCCCATTCTCT
 GAGGAGGAGTACTCTTGTGTTTAGCTTTCGTAACCTCTGGCGGTTACGGGGCCTGGCTTTCTTATGAGCA
 TTGCCCTACCTAGACCCAGGAAACATCGAATCTGATTTGCAGTCTGGAGCAGTGGCTGGATTTAAGTGTCT
 CTGGGTGCTCCTCTTGGCCACCATTGTGGGGCTGCTGCTCCAGCCCTTGCAGCGAGACTTGGAGTGGTC
 ACCGGCTTGCATCTTGTCTGAAGTATGTCACCGTCAAGTATCCCAAGTCCCACGGATCATCTGTGGCTGA
 TGGTGGAGTTGGCAATCATTGGTCTGACATGCAGGAAGTATTGGCTCAGCCATCGCCATCAATCTCCT
 GTCTGCAGGAAGGGTCCCCTGTGGGGCGGAGTCTCATCACCATCGCAGACACTTTTGTGTTTCTTTTT
 TTGGACAAATATGGCTTGCAGGAGTGAAGCGTTTTTTGGCTTCTCATCACTATCATGGCCCTCACGT
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 TCCAGGGTGCCGACCCCTCAGGTGGAGCAGGCGGTGGGCATCGTGGGAGCTGTGATCATGCCGACAAC
 ATGTACCTGCATTCTGCCTTAGTCAAGTCTAGACAGGTGAATCGGGCCAATAAGCAGGAAGTGGCGGAAG
 CCAATAAGTACTTCTTATCGAGTCTGCATCGCGCTCTTTGTTTCTTATCATCAATGTCTTTGTCTGT
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 TGCTTGGATGTTACTTCCGGCCTGCAGCTCTCTACATCTGGGCAGTGGGGATCCTGGCTGCCGGTCAGAG
 CTCCACCATGACTGGAACCTATTCTGGCCAGTTTGTATGGAGGGATTCTGAACCTAAAATGGTCGCGC
 TTTGCCGAGTGATCTGACCCGGTCTATCGCCATCATCCCCACCCTGCTCGTGTCTTCCAGGATG
 TGGAGCACCTAACGGGGATGAATGACTTCTGAATGCTCTGCAGAGCTTACAGCTCCCCTTTGCTCTCAT
 ACCATCTCACGTTTACAAGCCTGCGGCCAGTGATGAGTGAATTTCCAATGGAATAGGCTGGAGGATT
 GCCGGTGGCATCCTGGTCTGATCGTCTGCTCCATCAACATGACTTTTGTAGTGGTTTATGTCCAGGAGC
 TAGGGCATGTGGCACTCTATGTGGTGGCTGCAGTGGTTAGCGTGGCTATTTGACCTTTGTGTTCTACTT
 GGGTTGGCAGTGTGTTGATTGCATTGGGTCTGTCTTCTGGACTGTGGACGCTCGTACCGCTGGGACTG
 ACCGCTCAGCCTGAACTCTATCTTCTGAACACCGTGGATGCTGACTCAGTGGTGTCCAGATGACTAACAG
 CCCAGGAGACCTAAGAACAATTTCTTAAGCCCTTTCGGGCCAAGTGCCTGTTAGCAAATCCCTTAGTT
 CGGAGGTGAGCTTGTCAAAGGTTTTTGAACAAAGGAGAAGTTCTCTCACGGACTCAGGGTAAAAGCTG
 ACAGTTGCGTATGGGTGAGAGACCCCTTCGGAGGCAGTGGGCTGTGGCAGCTGTGCAGTCCCTCAGGCTT
 GTGTCTGCACTTCTGGGTTTTAAAGTGTATCGATATGTATTTATGTGAACCCAAACGTGCCAGTTTGGGT
 AAGATTTTAAAGTTATAAAACTTGATAGATTTTTACAAATGCCTTTCAGGTGAGTTAGGTCTTTGTCTA
 TTTGGGTAACAAATGAGAAAGGGACCTTCTGACGATGAACCTTCCCCAAAATAACTCTTGAAGCGCTGCT
 TTACCACAGT
 GTGGGGGCCACGGGTGGCATCAGGTGTCTCCAGTCTCTACCACAGTGTGTGTGTGTGTGTGTGTGTGT
 TGT
 TGGCATCAGGTGTCTCCAGTCTCTCTGAACATGGAGTTCAGTGTGTGACTGAGCTAGCCAGCCAGTAA
 GTTCAAGGATCCTCCTGGCCTCGCGCCCAACTGTGGTCCCAGATCAGCTGCTACGCCAGATTTTAC
 ACAGTGTGGGGACCCAAACTCAGGTCTTCTGGACAGCAGTACTTTACCAACTTCCCCTTTGTCTC
 TACATCAAGTGTGTCTGTGGCTGTTGTTCCGTTGGTGTCTGTCCACCTGCCCTTTCTTCCACTCTACGC
 GCTGACACTCCACACTGTCCTCACCCGTCTCTAAGGGCCGCCGATGTGTACCCTGAGTGTCTCTG
 AGGAATTTAAGCATTTTAAAGT
 TCAGTTTCACTTTAAGCACCGACTCCAAACGCGGTGTGCAGGTAGTGAAGCTTTTTGGTTTTTGTCTT
 TAATCCCAACCAGAAATAATCATCTTGTATAATAAAGTTCATGCTTAATAGCTAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: BC019137
Insert Size: 1707 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	BC019137 , AAH19137
RefSeq Size:	3010 bp
RefSeq ORF:	1707 bp
Locus ID:	18174
Cytogenetics:	15 56.29 cM
Gene Summary:	May serve to import iron into the mitochondria (By similarity). Important in metal transport, in particular iron. Involved in apical iron uptake into duodenal enterocytes. Involved in iron transport from acidified endosomes into the cytoplasm of erythroid precursor cells. May play an important role in hepatic iron accumulation and tissue iron distribution.[UniProtKB/Swiss-Prot Function]