

Product datasheet for **MC204505**

Slc5a11 (NM_146198) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc5a11 (NM_146198) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc5a11
Synonyms:	2010013B02Rik; Kst1; RKST2; Slc5a10; SMIT2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC031742
 GTCTCTGCTGCTCCTGCTGCTCCCTGCTGCAAAGGACAGGACATCCCAGGGTCTCCCTTTCACAGCC
 ACTGCCTTCGGCCTCTGAAGTCCCCGAGACCCTAGGGCAGTAGAGCCTGCATCCTGAAGAAGCACGCCCA
 CTGGAAGCCTACCTCTTCAGGATTGCAGTTTATACAGAGGGCCAGCTGAAACACCTAGCCTCGTGGAACT
 AGACTCTTGGACTTCCCATTACAGCTGTCCATTGTTGGGACTGAGCGACTCATTAGCACCATGGAGAG
 TGCCACCATCAGCCCTCAGCCCCACAGTCTGACTCCCTGGAGGCCTTTCCCAGAAAGAGCATGGAGCCA
 GCAGACATCGCTGTCTAGTTCTGTACTTCTCTTTGTTCTGGCTGTTGGATTATGGTCCACAGTGAGGA
 CCAAACGAGACACAGTGAAAGGCTACTTCTGGCTGGAGGGGACATGGTGTGGTGGCCAGTGGGTGCATC
 CTGTTTCCGACGAATGTTGGAAGTGGACACTTATTGGCCTCGCTGGGTCTGGTCTGCTGTGGGCATT
 TCTGTGCTGCCTATGAGCTTAATGGCTTGTCTGTGCTGATGCTGGCCTGGGTCTTCTCTTCTATCT
 ACATTGCTGGCCAGGTAACCACGATGCCAGAATATCTAAGGCGCGCTTTGGGGCAACAGGATCTCCAT
 CACCCTGGCTGTGCTCTACCTGTTTACATCTACATCTTACCAAGATCTCGGTCGACATGTATGCAGGGCC
 ATCTTCATTAGCAGTCTTGCATCTGGATCTGTACCTGGCCATAGTAGGGCTGTGGCAATCACAGCTC
 TGTACACTGTTGCAGGAGGTCTGGCCGTGTGATCTATACAGATGCTCTGCAGACTGTTATCATGCTTAT
 AGGAGCCTTCATCCTCATGGGCTACAGTTTGCAGCTGTTGGTGAATGGAAGGCCTGAAGGACCAGTAC
 TTCTTAGCCCTGGCTAGTAACCGGAGTGAGAACAGCAGCTGTGGGCTACCCCGAGAAGATGCCTTCCACA
 TCTTCCGAGATCCATTGACATCTGATCTCCCCTGGCCTGGGATCCTGTTTGGCATGTCCATCCCATCTCT
 CTGGTATTGGTGTACAGATCAGGTGATTGTTTACGCGGAGTCTGGCTGCCAAGAACCTGTCTCATGCCAAA
 GGCGGCTCCCTGATGGCTGCGTACCTGAAAGTGCCTTCTCTTTTCTGATGGTGTCCCTGGGATGGTCA
 GCAGAGTCTCTTCCCAGATCAAGTAGCCTGTGCGCATCTGACATCTGCCAGAGGGTCTGTAGCAACCC
 CTCTGGCTGTTGAGACATCGCGTACCCAAACTTGTGCTGGAACCTTCTGCCACAGGACTCCGTGGGCTC
 ATGATGGCTGTGATGGTGGCGGCTCTCATGTCTCCCTCACCTCCATCTTAAACAGTGCCAGCACCATCT
 TCACCATGGACCTGTGGAACACATCCGGCCACGGGCATCTGAAAGGGAGCTCATGATTGTGGCAGGAT
 ATTTGTGTTTGGCCTGGTGTGGTCTCCATCCTCTGGATCCCCATTGTGCAGGCCAGCCAGGGAGGGCAG
 CTTTTATCTACATTCAATCCATCAGCTCTACCTGCAGCCACCTGTGGCCATGGTCTTATCATGGGAT
 GTTTCTGGAAGCGTACCAATGAAAAGGGTGCCTTCTCAGGCCTGATCTTGGGCTTGTGCTGGGACTGGT
 CAGGCTGATCCTGGACTTGTCTACGCGCAGCCTCGGTGTGACCAGCCTGATGACCGCCAGCTGTGGTG
 AAGGATGTCCACTACCTACTTCTCCATGATTCTGTCTTTTACCACCCTCATCACTGTGGTCACTGTGA
 GCTGGTTCACAGAGACACCCTCCAAAGAGATGGTCAAGCCGCTGACTTGGTTCACCTGCATGAACCTGT
 GGCCAGAAAGGACTCAGCACCACCAGAAACCCCTGTCTTAAACCTTTCTCAGAAAGGACTACAGAG
 GCCCTGGCACCAGCATCCAGCTGGAGACAGTTCAAGAAAGTACGACCAAGCCTGTGGCGATGGTGTGT
 CTTCCAGCATTCCAAGTGGTGAAGGCTATCCTGTGGCTCTGTGGGATGGAAAAGAACAAGAGGAGCC
 CCCAAGCAAAGCGGAACCTGTATAGTTTCTTGGAGGAAAATCCCTTGGTGAACCCCTGCTTACGCTC
 AACTGCATTGTGTGCATCAGCTGCGCCATCTTCTTTGGGATACTTCGCATAACTCAGGGTGAGCCAGG
 AAACGACAATAAAGCTGTGTCTGTTTACTGTAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_146198

Insert Size: 2022 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:

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: [BC031742](#), [AAH31742](#)

RefSeq Size: 2356 bp

RefSeq ORF: 2022 bp

Locus ID: 233836

UniProt ID: [Q8K0E3](#)

Cytogenetics: 7 F3

Gene Summary: Involved in the sodium-dependent cotransport of myo-inositol (MI) with a Na(+):MI stoichiometry of 2:1. Exclusively responsible for apical MI transport and absorption in intestine. Also can transport D-chiro-inositol (DCI) but not L-fructose. Exhibits stereospecific cotransport of both D-glucose and D-xylose. May induce apoptosis through the TNF-alpha, PDCD1 pathway. May play a role in the regulation of MI concentration in serum, involving reabsorption in at least the proximal tubule of the kidney (By similarity).[UniProtKB/Swiss-Prot Function]