

Product datasheet for **MC218578**

Slc5a8 (BC017691) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc5a8 (BC017691) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc5a8
Synonyms:	MGC19357, Ait
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >BC017691
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGCGGTGCGAGTATGTCGCGCTGCCTGTGGCTCTGTCCCTCACCGCAGCTTCATGTCCGCTGTCA
 CTGTCCTGGGCACTCCTGCCGAGGTCTACCGTTTTGGGGCGATATTCAGCATCTTTGTCATCACCTACTT
 TTTTGTAGTGGTTATCAGCGCGGAGGTCTTCTCCAGTGTCTATAGGCTGGGGATCACAGCACCTAC
 GAGTATTTGGAACCTCGATTTAATCGATGCATTCTGTGGCACAATCCTCTTCATCGTTCAAACAA
 TTCTGTACACTGGAATTGTGATTTATGCCCTGCTCTGGCTTTGAATCAAGTTACAGGATTTGATCTGTG
 GGGCGCAGTGGTGGCCACAGGGTGGTCTGCACATTCTACTGCACACTGGGCGGTCTAAAGCAGTTGTC
 TGGACAGATGTTTTCAAGTTGGGATCATGGTGGCTGGATTTGCATCCGTAATTATACAGGCATCAATAA
 CTCACATGGCATCAATAAGATTTAAGTGATGCTTTAATGGTGAAGATTAACCTTCTGGAATTTTGA
 TCCTAACCTTTGCAAAGACACAGTCTGGACAATTGCATTGGAGGGACTTTTACCTGGACCACCATC
 TATGGTGTCAACAGTCCAAGTGCAGAGATATATTCCTGTAAGGAGCAGACTCCATGCAAAACTGTCCC
 TCTATGTCAACCTTGTGGGCTCTGGGTGATCCTCACCTGCTCCATATTCTGTGGGCTTGCCTGTACTC
 CAGATACCGTGAATGTGATCCCTGGACATCTAAGAAAGTGTGACGAGATTGACCAGCTTATGCCTATTTG
 GTGTTGGACATTTTAAAAATTACCCTGGTGTCCCGACTTTTTGTGGCCTGCGCTTACAGTGGGACAT
 TAAGCACAGTGTCTCCAGTATCAATGCCTTGGCGGCAGTCACCGTGAAGATCTCATCAAACCCCGCTT
 CAAGTCTCTCAGAGAAGTCTCTGTCTGGATTTCCAAGGAATGAGTGCCTGTATGGAGCTCTGTGC
 ATTGGAATGGCTGCCCTGGCATCGTGTGGGAGCCTTGTACAGGCAGCACTCAGCATATTCGGCATGG
 TTGGTGGACCACCTTCTGGGCTTGTCTTTGGGATCTTGGTCCCTTCGCCAACTCAATTGGAGCACT
 CACTGGTCTGTTGGCTGGATTTGCCATTTCTTATGGGTAGGAATTGGAGCCAGCTTTACCCTCCGCTT
 CCTGAGAGAACCTTACCATTGCCCTTGAACCTATGGCTGTAACATCACGCACAATGGGTGCGACTGGA
 TGTCAACCACAGAAATGCCATTTTCTACTAGCGTTTTCAAATACATAATGCGGAAAGGACTCCACTGAT
 GGACAATTGGTATTCAATATCATATCTGTACTTCACTACTATTGGAACGCTGACAACACTGTTTGTGGG
 ATACTTATCAGCTTATCAACAGGAGGAAGAAAACAGAACTTAGACCCCGATTCTACTAACCAAACAGG
 ACTTTTTATCCAATTTTGTGTTTTAAGAAAAGGAATCATGTTTTAACTATAAATTGCATCCTGTGGA
 AGTTGGTGGAAATGATAACCCTGCCTTCAACCATGTTGAGCTGAACCTCACAGATCACAGTGGCAAGATC
 AATGGGACTCGTTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: BC017691

Insert Size: 1698 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: [BC017691](#), [AAH17691](#)

RefSeq Size: 5351 bp

RefSeq ORF: 1697 bp

Locus ID: 216225

Cytogenetics: 10 C1

Gene Summary: Acts as an electrogenic sodium (Na(+)) and chloride (Cl-)-dependent sodium-coupled solute transporter, including transport of monocarboxylates (short-chain fatty acids including L-lactate, D-lactate, pyruvate, acetate, propionate, valerate and butyrate), lactate, monocarboxylate drugs (nicotinate, benzoate, salicylate and 5-aminosalicylate) and ketone bodies (beta-D-hydroxybutyrate, acetoacetate and alpha-ketoisocaproate), with a Na(+):substrate stoichiometry of between 4:1 and 2:1. Catalyzes passive carrier mediated diffusion of iodide. Mediates iodide transport from the thyrocyte into the colloid lumen through the apical membrane. May be responsible for the absorption of D-lactate and monocarboxylate drugs from the intestinal tract. May play a critical role in the entry of L-lactate and ketone bodies into neurons by a process driven by an electrochemical Na(+) gradient and hence contribute to the maintenance of the energy status and function of neurons.[UniProtKB/Swiss-Prot Function]