

Product datasheet for MC202413

Slc7a8 (NM_016972) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Slc7a8 (NM_016972) Mouse Untagged Clone
Tag: Tag Free
Symbol: Slc7a8
Synonyms: AA408822; LAT2
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC059004 sequence for NM_016972
CGGAGCTCGGAGCCGACAAGGGCGAGAAGGAAGGGGGCAGCCGACGAGGTGGAAACCTGATCCAGAGCCG
GCGAGCAAGAAAGTACCTGAGCACGGCTCCTCCTCCGCTCCCTCAGCTAAGAAGAACTACTTTTACCCCT
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CAGAGCAAGCCGCGCCCGGTACACCGAGCAGAGCGATCCTGGGCTTCTGAAGATAAACGCTTTCCGGAG
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AGGAGCGCACTCTGTTTTCGAAAAGGGCGTTCTAATTGGAACTCTGTTTTCCACATATCTATACGTT
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TATGGGTAACGGTTGCAGGACAGATAGTCTTCTGCTGGAAGAAGCCTGACATTCCTCCCGCCCATCAAG



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TCAGCCTGCTGTTTCCCATTATCTACCTGCTGTTCTGGGCCTTCTGCTGATCTTCAGCCTGTGGTCAGA
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AAAA
    
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- Restriction Sites:** Ascl-NotI
- ACCN:** NM_016972
- Insert Size:** 1596 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: [BC059004](#), [AAH59004](#)

RefSeq Size: 4064 bp

RefSeq ORF: 1596 bp

Locus ID: 50934

UniProt ID: [Q9QXW9](#)

Cytogenetics: 14 C2

Gene Summary: Sodium-independent, high-affinity transport of small and large neutral amino acids such as alanine, serine, threonine, cysteine, phenylalanine, tyrosine, leucine, arginine and tryptophan, when associated with SLC3A2/4F2hc. Acts as an amino acid exchanger. Has higher affinity for L-phenylalanine than LAT1 but lower affinity for glutamine and serine. L-alanine is transported at physiological concentrations. Plays a role in basolateral (re)absorption of neutral amino acids. Involved in the uptake of methylmercury (MeHg) when administered as the L-cysteine or D,L-homocysteine complexes, and hence plays a role in metal ion homeostasis and toxicity. Involved in the cellular activity of small molecular weight nitrosothiols, via the stereoselective transport of L-nitrosocysteine (L-CNSO) across the transmembrane. Plays an essential role in the reabsorption of neutral amino acids from the epithelial cells to the bloodstream in the kidney.[UniProtKB/Swiss-Prot Function]