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## Product datasheet for MC220148

## Slc7a2 (NM_001044740) Mouse Untagged Clone

## Product data:

Product Type:
Product Name:
Tag:
Symbol:
Synonyms:
Vector:
E. coli Selection:

Cell Selection:

Expression Plasmids
Slc7a2 (NM_001044740) Mouse Untagged Clone
Tag Free
Slc7a2
20.5; Al158848; Atrc2; CAT-2; Cat2; Tea
pCMV6-Entry (PS100001)
Kanamycin ( $25 \mathrm{ug} / \mathrm{mL}$ )
Neomycin
$\begin{array}{ll}\text { Fully Sequenced ORF: } & \begin{array}{l}\text { >MC220148 representing NM_001044740 } \\ \text { Red=Cloning site Blue=ORF Orange=Stop codon }\end{array}\end{array}$
TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC

ATGATTCCCTGCAGAGCAGTGCTGACTTTCGCGCGATGTCTGATCCGGAGAAAAATTGTCACACTGGACA GCCTTGAAGATTCCAAACTCTGCCGCTGCTTAACCACCGTGGACCTCATCGCTTTGGGGGTTGGAAGCAC TCTGGGCGCTGGGGTCTACGTCCTGGCTGGGGAAGTCGCCAAAGCCGATTCTGGCCCGAGTATCGTGGTG TCTTTCCTCATCGCTGCCCTGGCCTCGGTTATGGCCGGCCTTTGCTATGCTGAATTTGGGGCCCGAGTAC CCAAGACTGGATCTGCGTATCTATACACTTACGTCACGGTCGGAGAGCTGTGGGCCTTCATCACTGGCTG GAATCTCATCCTGTCATATGTCATAGGTACGTCCAGTGTCGCAAGAGCATGGAGTGGCACCTTCGACGAA CTTCTTAATAAACAGATTGGCCAGTTTTTCAAAACGTACTTCAAAATGAATTACACTGGTCTGGCAGAGT ATCCAGACTTCTTTGCCGTGTGCCTTGTATTACTCCTGGCAGGTCTTTTATCTTTTGGAGTAAAAGAGTC TGCTTGGGTGAATAAATTTTTTACAGCTATTAATATCCTGGTCCTTCTCTTTGTCATGGTGGCTGGGTTT GTGAAAGGAAATGTGGCTAACTGGAAGATCAGTGAAGAGTTTCTCAAAAATATATCAGCAAGTGCCAGAG AACCACCTTCTGAGAACGGAACAAGCATCTACGGGGCTGGCGGCTTTATGCCCTATGGCTTTACAGGGAC GTTGGCTGGTGCTGCAACGTGCTTTTATGCCTTTGTGGGCTTTGACTGCATTGCAACAACGGGTGAAGAG GTTCGGAATCCGCAAAAGGCGATCCCCATCGGAATAGTGACGTCCTTACTTGTCTGCTTTATGGCTTACT TTGGGGTTTCTGCAGCTTTAACGCTTATGATGCCTTACTACCTCCTGGATGAGAAAAGTCCACTCCCGGT CGCGTTTGAGTATGTCAGATGGAGCCCCGCCAAATATGTTGTCTCGGCAGGCTCCCTCTGCGCCTTATCA ACAAGTCTTCTTGGATCCATTTTCCCAATGCCTCGTGTAATCTATGCTATGGCGGAGGATGGGTTGCTTT TCAAATGTCTAGCTCAAATCAATTCCAAAACGAAGACACCAGTAATTGCTACTTTGTCGTCGGGTGCAGT GGCAGCTGTGATGGCCTTTCTTTTTGACCTGAAGGCCCTCGTGGACATGATGTCTATTGGCACCCTCATG GCCTACTCTCTGGTGGCAGCCTGTGTGCTTATTCTCAGGTACCAACCTGGCTTGTGTTATGACCAGCCCA AATACACCCCTGAGAAAGAAACTCTGGAATCATGTACCAATGCGACTTTGAAGAGCGAGTCCCAGGTCAC CATGCTGCAAGGACAGGGTTTCAGCCTACGAACCCTCTTCAGCCCCTCTGCCCTGCCCACACGACAGTCG GCTTCCCTTGTGAGCTTTCTGGTGGGATTCCTGGCTTTCCTCATCCTGGGCTTGAGTATTCTAACCACGT ATGGCGTCCAGGCCATTGCCAGACTGGAAGCCTGGAGCCTGGCTCTTCTCGCCCTGTTCCTTGTCCTCTG CGTTGCCGTCATTCTGACCATTTGGAGGCAGCCACAGAATCAGCAAAAAGTAGCCTTCATGGTCCCGTTC TTACCGTTTCTGCCGGCCTTCAGCATCCTGGTCAACATTTACTTGATGGTCCAGTTAAGTGCGGACACTT GGATCAGATTCAGCATCTGGATGGCGCTTGGCTTTCTGATCTACTTCGCCTATGGCATTAGACACAGCTT GGAGGGTAACCCCAGGGATGAAGAAGACGATGAGGATGCCTTTTCAGACAACATCAATGCAGCAACAGAA GAAAAGTCCGCCATGCAAGCAAATGACCATCACCAAAGAAACCTCAGCTTACCTTTCATACTTCATGAAA AGACAAGTGAATGTTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:
Sgfl-Mlul
ACCN:
Insert Size:
OTI Disclaimer:

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 $5,000 \mathrm{xg}$ for 5 min . <br> 2. Carefully open the tube and add 100 ul of sterile water to dissolve the DNA. <br> 3. Close the tube and incubate for 10 minutes at room temperature. <br> 4. Briefly vortex the tube and then do a quick spin (less than 5000 xg ) to concentrate the liquid at the bottom. <br> 5. Store the suspended plasmid at $-20^{\circ} \mathrm{C}$. The DNA is stable for at least one year from date of shipping when stored at $-20^{\circ} \mathrm{C}$. |
| :---: | :---: |
| RefSeq: | NM 001044740.2 NP 001038205.1 |
| RefSeq Size: | 7720 bp |
| RefSeq ORF: | 1977 bp |
| Locus ID: | 11988 |
| UniProt ID: | P18581 |
| Cytogenetics: | 823.89 cM |
| Gene Summary: | Isoform 1 functions as low-affinity, high capacity permease involved in the transport of the cationic amino acids (arginine, lysine and ornithine). Isoform 2 also functions as permease that mediates the transport of the cationic amino acids (arginine, lysine and ornithine), but it has much higher affinity for arginine than isoform 1. May play a role in classical or alternative activation of macrophages via its role in arginine transport.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) uses an alternate exon in the coding region compared to variant 1. The resulting protein (isoform 2) is longer but has the same N - and C -termini compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments. |

