

## Product datasheet for **MC219086**

### **Slc47a1 (NM\_026183) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Slc47a1 (NM_026183) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc47a1
Synonyms:	1300013J15Rik; AI036982; MATE1; mMATE1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC219086 representing NM\_026183  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAACGCACGGAGAGTCCGCTCCCGGGCCGGGAGGCGGGACGCTGCGTCCGAGCCCGTGGGCTAC  
 GCTGCCTGCTGCTGCCCGCTTCTAGAGGAGCTGCGGGCACTCTGGTCTGGCGGGTCCGCGTTCTT  
 GGCCAGCTGATGATGTTCTAATCAGTTTCATAAGCTCAGTGTCTGTGGCCACTTGGGCAAGCTGGAG  
 TTGGATGCAGTCACACTGGCAATTGCGGTTATCAATGTCACAGGCATTTTCAGTGGGACATGGCTTGTCTT  
 CTGCTTGTGACACGCTCATCTCCAGACATACGGGAGCCAGAACTAAAGCACGTAGGGGTTATCTGCA  
 AAGGGGGACACTCATCTGCTCCTCTGCTGCTTCCCTGCTGGGCACTTTCATCAACACCGAGCAAATT  
 CTGCTGCTCTTCAGACAGGACCCGGATGTATCCAGGCTCACCCAGACTTACGTATGATCTTCATCCAG  
 CGCTTCTGCAGCTTTTCTTTATACGTTACAAGTTAAATACTTGTCAACCAGGGCATCGTTCTGCCTCA  
 GATTATGACGGGCATCGCAGCTAACCTTGTCAACGCCCTGGCCAACCTATGTGTTTCTCTATCACCTGCAT  
 CTTGGGGTGATGGGTTACGACTTGGCCAACACCATCTCCAGTTTGGCCATTTTCTGTTCTCT  
 ACATCCTCTGGAGAAGACTACACCAAGCCACCTGGGGAGGGTGGTCTGGGAGTGTCTGCAGGACTGGGC  
 CTCCTTCTGCGACTGGCTATCCCAGCATGCTCATGCTGTGCATAGAGTGGTGGGCTATGAGGTTGGC  
 AGCTTCTGAGTGGTATCCTTGGCATGGTGGAGTTGGGAGCCAGTCCATCACCTATGAATTGGCTATCA  
 TTGTATACATGATCCCTTCAGGCTTCAGTGTGGCTGCCAAGTCCGGGTGGGAAATGCACTGGGCGCAGG  
 AAACATTGACCAGGCCAAGAAGTCTCAGCTATTTCTTGATAGTCACAGAGCTCTTGTGTGACCTTC  
 TGCGTCTGCTGCTAGGCTGTAAGGATCTCGTGGGCTACATTTTCACTACCGATCGGGATATCGTGGCCT  
 TGGTGGCTCAAGTGATCCCATTTATGCTGTGTCCACCTCTTTGAAGGCTTGTGTTACCTGTGGTGG  
 TATCCTGAGGGGCACTGGGAACCAAGAAGTTGGAGCCATCGTTAATGCCATCGGGTATTATGTCATTGGC  
 CTCCCATCGGGATCGCGCTGATGTTTGTGCTAAGCTGGGAGTATCGGCCTGTGGTACGAGCATATCA  
 TCTGCACTACCTGTCAGACCACGTGCTTCTGGCTTTTATTGCTCGGCTCAATTGGAAACCGCCTGTCA  
 ACAGGCTCAAGTACATGCCAATTTGAAGGTAACGTGGCCCTGAATTCGCTGTCTCTCACGAGCCTGCT  
 CACCCAGTGTGCTGAGAGCCATGGAGAAATTATGATGACGGATCTTGAAGGAAAGACGAGACTCAGT  
 TGGACCAGCCGATGAACCAGCAACAAGCTTTCCTATCCGTCCAAAGGACAGCAATAAAGTGTCTGGAA  
 ACAGTTGGCCTTACGGAGAGGACTCCTGCTCCTAGGGGTAGTCTTAGTCTTGGTGGTGGGATTTAGTG  
 AGAGTCTATATCAGAATTGAATAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_026183

**Insert Size:** 1704 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:** [NM\\_026183.5](#), [NP\\_080459.2](#)

**RefSeq Size:** 2634 bp

**RefSeq ORF:** 1704 bp

**Locus ID:** 67473

**UniProt ID:** [Q8K0H1](#)

**Cytogenetics:** 11 B2

**Gene Summary:** Solute transporter for tetraethylammonium (TEA), 1-methyl-4-phenylpyridinium (MPP), cimetidine, N-methylnicotinamide (NMN), metformin, creatinine, guanidine, procainamide, topotecan, estrone sulfate, acyclovir, ganciclovir and also the zwitterionic cephalosporin, cephalixin and cephradine. Seems to also play a role in the uptake of oxaliplatin (a new platinum anticancer agent). Able to transport paraquat (PQ or N,N-dimethyl-4'-bipyridinium); a widely used herbicide. Responsible for the secretion of cationic drugs across the brush border membranes (By similarity).[UniProtKB/Swiss-Prot Function]