

## Product datasheet for **MR208527**

### **Slc1a4 (NM\_018861) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Slc1a4 (NM_018861) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc1a4
Synonyms:	ASCT-1; ASCT1; AW045657; SATT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR208527 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAGAAGACGGCGAGACCAACGGCTACCTCGACGGCACCCAGGCAGAGCCTGCGGCCGGCCCCGAA  
 CGCCCAGACGGCGATGGCAAATCGCAGCGCTGTGCTAGCTTTTTTCGGCGCCACGCGCTGGTGTGCT  
 CACCGTGTGGGAGTGTGGTGGTGGCCGATGGGCGCGCGCTGAGGGGGCTGCAGCTCACCCGACC  
 CAGATCACTTACCTGGCCTTCCCGGGCAGATGCTGCTCCGCATGCTGCGCATGATCATCTGCCCTGG  
 TGGTTTGACGCTGGTGTGGGAGCCGCTCCCTGGATGCCAGCTCCCTCGGGCTGCTGGGTGGCATCGC  
 TGTTGCTTACTTCGGCTCACACGCTGAGCGCTCGGCTCTCGCCGTTGCTCTGGCGTTTATCATCAAG  
 CCAGGGCGGGCGCAGACCCCTCAGTCCAGCAGCTGGGGCTGGAGAAGTCCAGGGCTCCTCCGGTCT  
 CCAAAGAGACAGTGGACTCTTCTCGATTTACTCAGAACTGTCCCTCCAATCTTGTGGTTGCCGC  
 ATTCACTACGCTGCAACCGATTACACAGTGGTACCATAACACCAGCTCGGGAACGTGACCAAAGAG  
 AAGATCCCGTTGTAACAGATGTGAAGGGATGAACATTTAGGTCTCGTCTTTTTGCCCTGGTGTAG  
 GAGTGGCTCTAAAGAAGCTAGGCCCGAGGGAGAAGACCTCATCCGATTCTCAATTCCTCAATGAGGC  
 CACAATGGTGTGGTGTGATGGATCATGTGGTATGTTCTATAGGCATCATGTTCTGATCGGAAGCAAG  
 ATTGTAGAAATGAAGGACATCGTCATGCTGGTACCAGTCTCGGGAAATACATCTTCGCATCATGCTGG  
 GCCATGTCATCCACGGAGGAATTGCTCTGCCTCTTGTGATTTTGTCTTTCACAAGAAAAACCCGTTAC  
 GTTCTCTGGGCTCCTCACCCATTTGCGACAGCTTTTGCACCTGTTCCAGCTCAGCAACCCCTCCG  
 TCTATGATGAAGTGCATTGAGGAGAACAATGGTGTAGACAAGAGGATCAGCAGTTTATCTCCCATG  
 GGGCCACGGTCAACATGGACGGAGCAGCCATCTCCAGTGTGTGGCCGAGTGTTCATGCCAGTCAA  
 CAACGTAGACCTGAACGCAGGACAGATTTTACCATTCTAGTACTGCCACGGCATCCAGTGTGGAGCA  
 GCAGGTGTGCCGCTGGGGTGTCTCACAAATGCCATCATCTTGGAGGCCATTGGATTGCCACACATG  
 ACCTCTCTGATCCTGGCTGTGGACTGGATTGTGGACCGGACCACCCTGTGGTGAATGTGAAGGGGA  
 TGCCCTGGGAGCGGGATCCTCAACCACCTGAATCAGAAGGTAGTGAAGAAAGGTGAGCAGGAGCTACA  
 GAAGTGAAGGTGAAGCCATTCCAATTCAGTCTGAGGAGGAGACGTCGCCTCTGGTACACACCAGA  
 ACCCAGCAGGCCCTGTGGCCATTGCTCTGAATTGAATCCAAGGAGTCAGTGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208527 protein sequence  
 Red=Cloning site Green=Tags(s)

MEKSGETNGYLDGTQAEPAPGPRTPETAMGKSQRCSFFRRHALVLLTVSGVLVAGMGAAALRGLQLTRT  
 QITYLAFPGEMLLRMLRMIILPLVVCSLVSGAASLDASSLGRGGIAVAYFGLTTLASALAVAFIHK  
 PGAGAQLQSSSLGLENSGPPVSKETVDSFLDLLRNLFPSNLVVAFFTSTADYTVVTHNTSSGNVTK  
 KIPVVTVEGMNLLGLVLFALVLGVALKKLGPEGEDLIRFFNSFNEATMVLVSWIMWYVPIGIMFLIGSK  
 IVEKMDIVMLVTLGKYIFASMLGHVIHGGIVLPLVYFAFTRKNPFTFLGLLTPFATAFATCSSSATLP  
 SMMKCIENNGVDKRISRFILPIGATVNMGAAIFQCVAAVFIAQLNNVDLNAQQIFITILVTATASSVGA  
 AGVPAGGVLTI AILEAIGLPHDLSLILAVDWIVDRTTTTVVNVEGDALGAGILNHLNQKVVKKGEQELQ  
 EVKVEAIPNSKSEEETSPLVTHQNPAGPVIAIPELESKESVL

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_018861

ORF Size: 1599 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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\\_018861.3](#)

RefSeq Size: 3926 bp

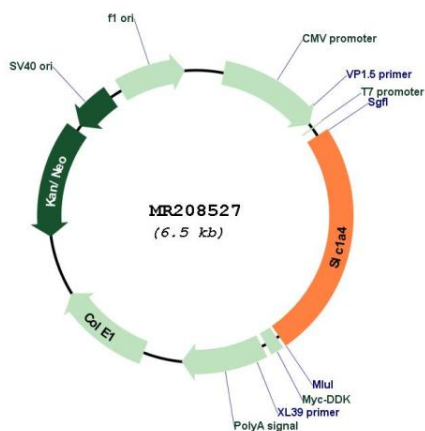
RefSeq ORF: 1599 bp

Locus ID: 55963

UniProt ID: [O35874](#)

Cytogenetics:	11 12.97 cM
MW:	56.1 kDa
Gene Summary:	Transporter for alanine, serine, cysteine, and threonine. Exhibits sodium dependence (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR208527