

Product datasheet for **MG208527**

Slc1a4 (NM_018861) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc1a4 (NM_018861) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc1a4
Synonyms:	ASCT-1; ASCT1; AW045657; SATT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208527 representing NM_018861
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGAAGACGGCGAGACCAACGGCTACCTCGACGGCACCCAGGCAGAGCCTGCGGCCGGCCCCGAA
 CGCCCGAGACGGCGATGGCAAATCGCAGCGCTGTGCTAGCTTTTTTCGCGGCCACGCGCTGGTGTGCT
 CACCGTGTGGGAGTGTGGTGGGTGCCGGCATGGGCGCGCGCTGAGGGGGCTGCAGCTCACCCGACC
 CAGATCACTTACCTGGCCTTCCCGGGCAGATGCTGCTCCGCATGCTGCGCATGATCATCTGCCGTGG
 TGGTTTGACGCTGGTGTGGGAGCCGCTCCCTGGATGCCAGCTCCCTCGGGCGTCTGGGTGGCATCGC
 TGTTGCTTACTTCGGCTCACACGCTGAGCGCTCGGCTCTCGCCGTTGCTCTGGCGTTTATCATCAAG
 CCAGGGCGGGCGCAGACCCTCCAGTCCAGCAGCTGGGGCTGGAGAAGTCCAGGGCTCCTCCGGTCT
 CCAAAGAGACAGTGGACTCTTCTCGATTTACTCAGAACTGTCCCTCCAATCTTGTGGTTGCCGC
 ATTCACTACGCTGCAACCGATTACACAGTGGTACCATAACACCAGCTCGGGGACGTGACCAAAGAG
 AAGATCCCGTTGTAACAGATGTGAAGGGATGAACATTTAGGTCTCGTCTTTTTGCCCTGGTGTAG
 GAGTGGCTCTAAAGAAGCTAGGCCCGAGGGAGAAGACCTCATCCGATTCTCAATTCCTCAATGAGGC
 CACAATGGTGTGGTGTGATGGATCATGTGGTATGTTCTATAGGCATCATGTTCTGATCGGAAGCAAG
 ATTGTAGAAATGAAGGACATCGTCATGCTGGTACCAGTCTCGGGAAATACATCTTCGCATCATGCTGG
 GCCATGTCATCCACGGAGGAATTGCTCTGCCTCTTGTGATTTTGTCTTTCACAAGAAAAACCCGTTAC
 GTTCTCTGGGCTCCTCACCCATTTGCGACAGCTTTTGCACCTGTTCCAGCTCAGCAACCTTCCG
 TCTATGATGAAGTGCATTGAGGAGAACAATGGTGTAGACAAGAGGATCAGCAGGTTTATCTCCCATG
 GGGCCACGGTCAACATGGACGGAGCAGCCATCTCCAGTGTGTGGCCGAGTGTTCATTCGCCAGTCAA
 CAACGTAGACCTGAACGCAGGACAGATTTTACCATTCTAGTGACTGCCACGGCATCCAGTGTGGAGCA
 GCAGGTGTGCCGCTGGGGTGTCTCACAAATGCCATCATCTTGGAGGCCATTGGATTGCCACACATG
 ACCTCTCTGATCCTGGCTGTGGACTGGATTGTGGACCGGACCACCCTGTGGTGAATGTGAAGGGGA
 TGCCCTGGGAGCGGGATCCTCAACCCTGAATCAGAAGGTAGTGAAGAAAGGTGAGCAGGAGCTACAA
 GAAGTGAAGGTGAAGCCATTCCAATTCAGTCTGAGGAGGAGACGTCGCTCTGGTACACACCAGA
 ACCCAGCAGGCCCTGTGGCCATTGCTCTGAACCTGAATCCAAGGAGTCAGTGTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208527 representing NM_018861
 Red=Cloning site Green=Tags(s)

MEKSGETNGYLDGTQAEPAGPRTPETAMGKSQRCSFFRRHALVLLTVSGVLVAGMGAAALRGLQLTRT
 QITYLAFPGEMLLRMLRMIIPLVVCVSLVSGAASLDASSLGRGGIAVAYFGLTTLASALAVAFI
 PGAGAQLQSSSLGLENSGPPVSKETVDSFLDLLRNLFPSNLVVAFTTSATDYTVVTHNTSSGNV
 KEKIPVVTDVEGMNILGLVLFALVLGVALKKLGPEGEDLIRFFNSFNATMVLVSWIMWYVPIGIMFLIGSK
 IVEMKDIVMLVTSLGKYIFASMLGHVIHGGIVLPLVYFAFTRKNPFTFLGLLTPFATAFATCSSSATLP
 SMMKCIENNGVDKRISRFILPIGATVNMDGAAIFQCVAAVFIAQLNNVDLNAGQIFTILVTATASSVGA
 AGVPAGGVLTAIILEAIGLPTHDLSLILAVDWIVDRTTTTVVNVEGDALGAGILNHLNQVVKKGEQELQ
 EVKVEAIPNSKSEEETSPLVTHQNAPGPVAIAPELESKESVL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

ACCN:	NM_018861
ORF Size:	1596 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:	<ol style="list-style-type: none">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:	3885 bp
RefSeq ORF:	1599 bp
Locus ID:	55963
UniProt ID:	O35874
Cytogenetics:	11 12.97 cM
Gene Summary:	Transporter for alanine, serine, cysteine, and threonine. Exhibits sodium dependence (By similarity).[UniProtKB/Swiss-Prot Function]