

Product datasheet for **MR208532**

Slc47a1 (BC031436) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc47a1 (BC031436) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc47a1
Synonyms:	RP23-451A6.3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208532 representing BC031436
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAACGCACGGAGGAGTCCGCTCCCGGGCCGGGAGGCGCGGACGCTGCGTCCGAGCGCGTGGGCTAC
 GCTGCCTGCTGCTGCCCGGCTTCTAGAGGAGCTGCGGGCACTCTGGTCCTGGCGGGTCTGCGTTCTT
 GGCCAGCTGATGATGTTCTTAATCAGTTTCATAAGCTCAGTGTCTGTGGCCACTTGGGCAAGCTGGAG
 TTGGATGCAGTCACACTGGCAATTGCGGTTATCAATGTCACAGGCATTTAGTGGGACATGGCTTGTCTT
 CTGCTTGTGACACGCTCATCTCCAGACATACGGGAGCCAGAAGTTAAAGCACGTAGGGGTTATCTGCA
 AAGGGGGACACTCATCTGCTCCTCTGCTGCTTCCCTGCTGGGCACTCTTCATCAACACCGAGCAAATT
 CTGCTGCTCTTCAGACAGGACCCGGATGTATCCAGGCTCAGCCAGACTTACGTATGATCTTCATCCAG
 CGCTTCTGCAGCTTTTCTTTATACGTTACAAGTTAAATACTTGCTCAACCAGGGCATCGTTCTGCCTCA
 GATTATGACGGGCATCGCAGCTAACCTTGTCACGCCCTGGCCAACTATGTGTTTCTCTATCACCTGCAT
 CTTGGGGTGATGGGTTACGACTTGGCCAAACCATCTCCAGTTTGCCCTGGCCATTTTCTGTCTCTCT
 ACATCCTCTGGAGAAGACTACACCAAGCCACCTGGGGAGGGTGGTCTGGGAGTGTCTGCAGGACTGGGC
 CTCCTTCTGCGACTGGCTATCCCAGCATGCTCATGCTGTGCATAGAGTGGTGGCCTATGAGGTTGGC
 AGCTTCTGAGTGGTATCCTTGGCATGGTGGAGTTGGGAGCCAGTCCATCACCTATGAATTGGCTATCA
 TTGTATACATGATCCCTTCAGGCTTCAGTGTGGCTGCCAACGTCGGGTGGGAAATGCACTGGGCGCAGG
 AAACATTGACAGGCCAAGAAGTCTCAGCTATTTCTTGATAGTCACAGAGCTCTTGCTGTGACCTTC
 TCGCTCCTGCTGCTAGGCTGTAAGGATCTCGTGGGCTACATTTTCACTACCGATCGGGATATCGTGGCT
 TGGTGGCTCAAGTGATCCCCATTTATGCTGTGTCCACCTCTTTGAAGGTCTTGCTGTGACCTGTGGTGG
 TATCCTGAGGGGCACTGGGAACCAAGGTTGGAGCCATCGTTAATGCCATCGGGTATTATGTCATTGGC
 CTCCCCATCGGGATCGCGCTGATGTTTGTGCTAAGCTGGGAGTATCGGCCTGTGGTACAGGCATATCA
 TCTGCACTACCTGTCAGACCAGTGCTTCTGGCTTTTATTGCTCGGCTCAATTGAAACGCGCCTGTCA
 ACAGGCTCAAGTACATGCCAATTGAAGGTAACGTCGGCCTGAATTCGCTGTCTCTACGAGCCTGCT
 CACCCAGTGTGCTGAGAGCCATGGAGAAATTATGATGACGGATCTTGAAAAAAGACGAGACTCAG
 TTGGACCAGCCGATGAACCAGCAACAAGCTTTCCTATCCGTCCAAGGACAGCAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208532 representing BC031436
 Red=Cloning site Green=Tags(s)

MERTEESAPGPGGADAASERRGLRCLLLPGFLEELRALLVLAPFLAQLMMFLISFISVFCGHLGKLE
 LDAVTLAIAVINVTGISVGHGLSSACDTLISQTYGSQNLKHVGIVLQRGTLILLCCFPCWALFINTEQI
 LLLFRQDPDVSRLTQTYVMIFIPALPAFLYTLQVKYLLNQGIVLPQIMTGIAANLVNALANYVFLYHLH
 LGVMGSALANTISQFALAIFLFLYLWRRHLQATWGGWSWECLQDWASFLRLAIPSMMLCIEWWAYEVEG
 SFLSGILGMVELGAQSITYELAIIVYMIPSGFSVAANVRVGNALGAGNIDQAKKSSAISLIVTELFVTF
 CVLLLGGCKDLVGIFYFTDRDIVALVAQVIPIYAVSHLFEGLACTCGGILRGTGNQKVGAIVNAIGYYVIG
 LPIGIALMFAAKLGVIGLWSGIIICTTCQTTCFLAFIARLNWKRACQQAQVHANLKVNLNSAVSHEPA
 HPVCPESHGEIMMTDLEKKRRDSVGPADPATSFAYPSKGQQ

TRTRPLE**QKL**ISEEDLAAND**ILDYKDDDDKV**

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: BC031436

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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC031436](#)

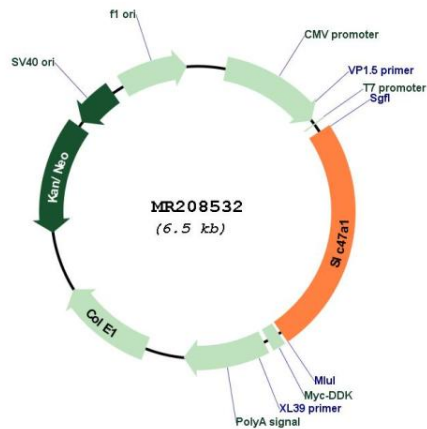
RefSeq Size: 2629 bp

RefSeq ORF: 1598 bp

Locus ID: 67473

Cytogenetics:	11 B2
MW:	96.4 kDa
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, cephalexin 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-4,4'-bipyridinium); a widely used herbicide. Responsible for the secretion of cationic drugs across the brush border membranes (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208532