

Product datasheet for **MR229186**

Slc25a44 (NM_001281795) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Slc25a44 (NM_001281795) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Slc25a44
Synonyms: 6720482A19; B430110G05Rik
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR229186 representing NM_001281795
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGGACAAACGGAACATCCAGATCATCGAGTGGGAGCACCTGGACAAGAAGAAGTTCTATGTGTTT
GTGTTGCTATGACAATGATGATCAGGGTCAGCGTGTACCCGTTCCACCTCATCCGCACCCGCTGCAGT
CCAGAAGGGCAAGAGCCTCTACCACGGGACCTTCGATGCCTTTGTCAAGATCCTGCGAGCAGATGGAGT
GCGGGCCTCTACCGGGGTTCTGGTCAACACCTTCACACTCATCTCCGGCCAGTGTATGTCACCACTT
ACGAGCTCACCCGGAAGTTTGTGGCAGACTACAGCCAGAGTAACACAGTCAAATCACTCGTAGCCGGGG
CTCGGCCCTCCCTTGTGGCCAGAGCATCACGGTGCCGATCGATGTTGTCTCCCAACATCTGATGATGCG
CGGAAGGGTGAGAAAATGGGTCGCTTCCAAGTGCACGGGAACCTAGAGGGACAAGGGGTATTGCCTTTG
GCCAGACTAAGGACATCATCAGGCAGATCCTTCGGGTGACGGTCTCCGAGGCTTCTACCGGGCTATGT
GGCCTCGCTGCTAACGTACATCCCAAACAGTGTGTCTGGTGGCCCTTCTACCACTTCTATGCAGAGCAG
CCTGTCGCGCCTGTGCCCTCAGGAGTGCCCTCACATTGTCTTTCAAGCCATCTCTGGGCCCTGGCTGCAG
CCACTGCCTCCATCCTCACCAATCCCATGGATGTCATCAGAACCCTGTGCAGTTGAAGGCAAGAGCTC
CATCGTCTGACCTTACGGCAGCTGATGGCAGAGGAGGGCCTTGGGGCCTCATGAAGGGCCTCTCGGCA
AGAATCATCTCGCTACCCCTCCACCATCGTCATCGTGGTGGGCTACGAGAGCCTCAAGAAGCTCAGCC
TGGCACCTGAGCTGGTGGACTCGAGACTGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229186 representing NM_001281795
 Red=Cloning site Green=Tags(s)

MEDKRNIIQIIEWEHLDKKKFYVFGVAMTMMIRVSVYPFTLIRTRLQVQKGSLYHGTFDAFVKILRADGV
 AGLYRGLVNTFTLISGQCYVTTYELTRKFVADYSQSNTVKSLVAGGSASLVAQSITVPIDVVSQHLMMQ
 RKGEKMGFRFQVHGNLEGQGVIAFGQTKDIIHQILRADGLRGFYRGYVASLLTYIPNSAVWPFYHFYAEQ
 LSRLCPQECPHIVFQAIISGPLAAATASILNTPMDVIRTRVQVEGKSSIVLTFRQLMAEEGPWGLMKGLSA
 RIISATPSTIVIVVGYESLKKLSLRPELVDSRHW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

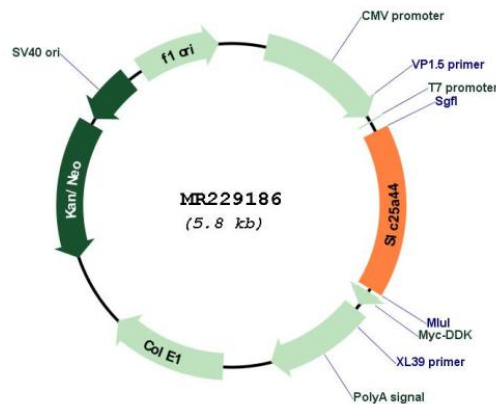
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001281795

ORF Size: 942 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_001281795.2
RefSeq Size:	3459 bp
RefSeq ORF:	945 bp
Locus ID:	229517
UniProt ID:	Q8BGF9
Cytogenetics:	3 F1
MW:	35.8 kDa
Gene Summary:	Mitochondrial solute transporter which transports branched-chain amino acid (BCAA; valine, leucine and isoleucine) into mitochondria in brown adipose tissue (BAT) (PubMed:31435015). BAT is involved in BCAA catabolism and actively utilizes BCAA in the mitochondria for thermogenesis (PubMed:31435015).[UniProtKB/Swiss-Prot Function]