

Product datasheet for **MR203315**

Slc25a44 (BC012234) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Slc25a44 (BC012234) 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: >MR203315 representing BC012234
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGGACAAACGGAACATCCAGATCATCGAGTGGGAGCACCTGGACAAGAAGAAGTTCTATGTGTTTG
GTGTTGCTACGACAATGATGATCAGGGTCAGCGTGTACCCGTTCCACCTCATCCGCACCCGCTGCAGGT
CCAGAAGGGCAAGAGCCTCTACCACGGGACCTTCGATGCCTTTGTCAAGATCCTGCGAGCAGATGGAGTG
GCGGGCCTCTACCGGGGTTCTGGTCAACACCTTCACACTCATCTCCGGCCAGTGCTATGTCACCACTT
ACGAGCTCACCCGGAAGTTTGTGGCAGACTACAGCCAGAGTAACACAGTCAAATCACTCGTAGCCGGGGG
CTCGGCCCTCCCTTGTGGCCAGAGCATCACGGTGCCGATCGATGTTGTCTCCCAACATCTGATGATGCAG
CGGAAGGGTGAGAAAATGGGTCGCTTCCAAGTGCACGGGAACCTAGAGGGACAAGGGGTGATTGCCTTTG
GCCAGACTAAGGACATCATCAGGCAGATCCTTCGGGTGACGGTCTCCGAGGCTTCTACCGGGGCTATGT
GGCCTCGCTGCTAACGTACATCCCAAACAGTGTGTCTGGTGGCCCTTCTACCACTCCTATGCAGAGCAG
CTGTCGCGCCTGTGCCCTCAGGAGTGCCCTCACATTGTCGTGCCCTCACATTGTCTTTCAAGCCATCTCT
GGCCCCCTGGCTGCAGCCACTGCCTCCATCCTACCAATCCCATGGATGTCATCAGAACCCGTGTGCAGG
T

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203315 representing BC012234
 Red=Cloning site Green=Tags(s)

MEDKRNIQIIEWEHLDKKKFYVFGVATTMMIRVSVYPFTLIRTRLQVQKGKSLYHGTFDAFVKILRADGV
 AGLYRGLVNTFTLISGQCYVTTYELTRKFVADYSQSNTVKSLVAGGSASLVAQSITVPIDVVSQHLMMQ
 RKGEKMGFRFQVHGNLEGQGVIAFGQTKDIIHQILRADGLRGFYRGYVASLLTYIPNSAVWWPFYHSYAEQ
 LSRLCPQECPHIVVPSHCLSSHLWAPGCSHCLHHPHQSHGCHQNPCAG

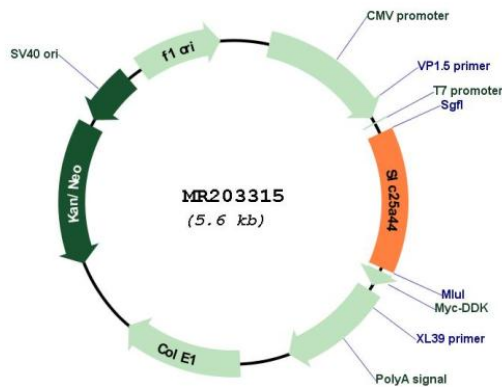
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC012234
 ORF Size: 771 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:	BC012234.1
RefSeq Size:	3426 bp
RefSeq ORF:	773 bp
Locus ID:	229517
Cytogenetics:	3 F1
MW:	125.6 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]