

Product datasheet for MR223527

Slc25a44 (NM_001145877) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Slc25a44 (NM_001145877) 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: >MR223527 representing NM_001145877
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCCGGGACTCTGAATTGGCCGTGCAAGAGCCTGACAGAAGGTCTCCGGGCACAATGGAGGACAAAC
 GGAACATCCAGATCATCGAGTGGGAGCACCTGGACAAGAAGAAGTTCTATGTGTTTGGTGTGCTATGAC
 AATGATGATCAGGGTCAGCGTGTACCCGTTACCCTCATCCGCACCCGCCTGCAGGTCCAGAAGGGCAAG
 AGCCTCTACCACGGGACCTTCGATGCCTTTGTCAAGATCCTGCGAGCAGATGGAGTGGCGGGCCTCTACC
 GGGGGTTCCTGGTCAACACCTTCACACTCATCTCCGGCCAGTGCTATGTCACCACTTACGAGCTCACCCG
 GAAGTTTGTGGCAGACTACAGCCAGAGTAACACAGTCAAATCACTCGTAGCCGGGGGCTCGGCCTCCCTT
 GTGGCCAGAGCATCACGGTGCCGATCGATGTTGTCTCCAACATCTGATGATGCAGCGGAAGGGTGAGA
 AAATGGGTCGCTTCCAAGTGCACGGGAACCTAGAGGGACAAGGGGTGATTGCCTTTGGCCAGACTAAGGA
 CATCATCAGGCAGATCCTTCGGGCTGACGGTCTCCGAGGCTTCTACCGGGGCTATGTGGCCTCGTGCTA
 ACGTACATCCCAAACAGTGCTGTCTGGTGGCCCTTCTACCACTTCTATGCAGGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR223527 representing NM_001145877
 Red=Cloning site Green=Tags(s)

MPGDSELAVQEPDRRSPGTMEDKRNIQIIWEHLDKKKFYVFGVAMTMMIRVSVYPFTLIRTRLQVQKGGK
 SLYHGTFDAFVKILRADGVAGLYRGFLVNTFTLISGQCYVTTYELTRKFVADYSQSNTVKSLVAGGSASL
 VAQSITVPIDVVSQHLMMQRKGEKMGRFQVHGNLEGGQVIAFGQTKDIIIRQILRADGLRGRFYRGYVASLL
 TYIPNSAVWWPFYHFYAG

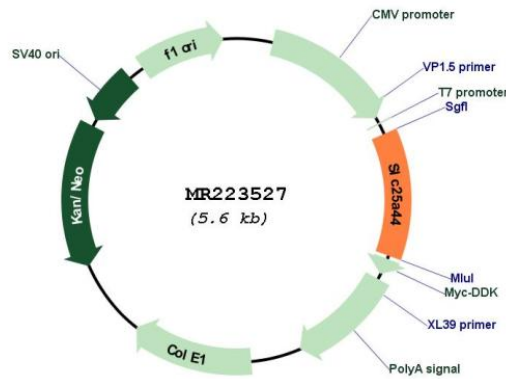
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001145877

ORF Size: 684 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_001145877.2 , NP_001139349.1
RefSeq Size:	3464 bp
RefSeq ORF:	687 bp
Locus ID:	229517
UniProt ID:	Q8BGF9
Cytogenetics:	3 F1
MW:	26.2 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]