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Product datasheet for MC212861

Slc25a44 (NM_178696) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc25a44 (NM_178696) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc25a44
Synonyms:	6720482A19; B430110G05Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

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>MC212861 representing NM_178696
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCCGGGGACTCTGAATTGGCCGTGCAAGAGCCTGACAGAAGGTCTCCGGGCACAATGGAGGACAAAC
GGAACATCCAGATCATCGAGTGGGAGCACCTGGACAAGAAGAAGTTCTATGTGTTTGGTGTTGCTATGAC
AATGATGATCAGGGTCAGCGTGTACCCGTTCACCCTCATCCGCACCCGCCTGCAGGTCCAGAAGGGCAAG
AGCCTCTACCACGGGACCTTCGATGCCTTTGTCAAGATCCTGCGAGCAGATGGAGTGGCGGGCCTCTACC
GGGGGTTCCTGGTCAACACCTTCACACTCATCTCCGGCCAGTGCTATGTCACCACTTACGAGCTCACCCG
GAAGTTTGTGGCAGACTACAGCCAGAGTAACACAGTCAAATCACTCGTAGCCGGGGGCTCGGCCTCCCTT
GTGGCCCAGAGCATCACGGTGCCGATCGATGTTGTCTCCCAACATCTGATGATGCAGCGGAAGGGTGAGA
AAATGGGTCGCTTCCAAGTGCACGGGAACCTAGAGGGACAAGGGGTGATTGCCTTTGGCCAGACTAAGGA
CATCATCAGGCAGATCCTTCGGGCTGACGGTCTCCGAGGCTTCTACCGGGGCTATGTGGCCTCGCTGCTA
ACGTACATCCCAAACAGTGCTGTCTGGTGGCCCTTCTACCACTTCTATGCAGAGCAGCTGTCGCGCCTGT
GCCCTCAGGAGTGCCCTCACATTGTCTTTCAAGCCATCTCTGGGCCCCTGGCTGCAGCCACTGCCTCCAT
CCTCACCAATCCCATGGATGTCATCAGAACCCGTGTGCAGGTTGAAGGCAAGAGCTCCATCGTCCTGACC
TTCAGGCAGCTGATGGCAGAGGAGGGGCCTTGGGGCCTCATGAAGGGCCTCTCGGCAAGAATCATCTCGG
CTACACCCTCCACCATCGTCATCGTGGTGGGCTACGAGAGCCTCAAGAAGCTCAGCCTGCGACCTGAGCT
GGTGGACTCGAGACACTGGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Restriction Sites: SgfI-MluI

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ACCN:	NM_178696
Insert Size:	1002 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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.
RefSeq:	NM_178696.5, NP_848811.2
RefSeq Size:	3584 bp
RefSeq ORF:	1002 bp
Locus ID:	229517
Cytogenetics:	3 F1
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] Transcript Variant: This variant (1) represent the longest transcript and encodes the longest isoform (a).

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