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Product datasheet for MC212860

Slc25a44 (NM_001145877) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc25a44 (NM_001145877) 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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>MC212860 representing NM_001145877
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCCGGGGACTCTGAATTGGCCGTGCAAGAGCCTGACAGAAGGTCTCCGGGCACAATGGAGGACAAAC
GGAACATCCAGATCATCGAGTGGGAGCACCTGGACAAGAAGAAGTTCTATGTGTTTGGTGTTGCTATGAC
AATGATGATCAGGGTCAGCGTGTACCCGTTCACCCTCATCCGCACCCGCCTGCAGGTCCAGAAGGGCAAG
AGCCTCTACCACGGGACCTTCGATGCCTTTGTCAAGATCCTGCGAGCAGATGGAGTGGCGGGCCTCTACC
GGGGGTTCCTGGTCAACACCTTCACACTCATCTCCGGCCAGTGCTATGTCACCACTTACGAGCTCACCCG
GAAGTTTGTGGCAGACTACAGCCAGAGTAACACAGTCAAATCACTCGTAGCCGGGGGCTCGGCCTCCCTT
GTGGCCCAGAGCATCACGGTGCCGATCGATGTTGTCTCCCAACATCTGATGATGCAGCGGAAGGGTGAGA
AAATGGGTCGCTTCCAAGTGCACGGGAACCTAGAGGGACAAGGGGTGATTGCCTTTGGCCAGACTAAGGA
CATCATCAGGCAGATCCTTCGGGCTGACGGTCTCCGAGGCTTCTACCGGGGCTATGTGGCCTCGCTGCTA
ACGTACATCCCAAACAGTGCTGTCTGGTGGCCCTTCTACCACTTCTATGCAGGTTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Restriction Sites:	SgfI-MluI
ACCN:	NM_001145877
Insert Size:	687 bp

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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_001145877.2, NP_001139349.1
RefSeq Size:	3456 bp
RefSeq ORF:	687 bp
Locus ID:	229517
UniProt ID:	Q8BGF9
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 (3) lacks an alternate exon in the 3' coding region that results in a frameshift, compared to variant 1. The encoded isoform (c) has a distinct C-terminus and is shorter than isoform a.

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