

Product datasheet for **MG223527**

Slc25a44 (NM_001145877) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Slc25a44 (NM_001145877) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Slc25a44
Synonyms: 6720482A19; B430110G05Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG223527 representing NM_001145877
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCGGGACTCTGAATTGGCCGTGCAAGAGCCTGACAGAAGGTCTCCGGGCACAATGGAGGACAAAC
GGAACATCCAGATCATCGAGTGGGAGCACCTGGACAAGAAGAAGTTCTATGTGTTTGGTGTGCTATGAC
AATGATGATCAGGGTCAGCGTGTACCCGTTACCCTCATCCGCACCCGCCTGCAGGTCCAGAAGGGCAAG
AGCCTCTACCACGGGACCTTCGATGCCTTTGTCAAGATCCTGCGAGCAGATGGAGTGGCGGGCCTCTACC
GGGGTTCCTGGTCAACACCTTCACACTCATCTCCGGCCAGTGTATGTCACCACTTACGAGCTCACCCG
GAAGTTTGTGGCAGACTACAGCCAGAGTAACACAGTCAAATCACTCGTAGCCGGGGCTCGGCCTCCCTT
GTGGCCCAGAGCATCACGGTGCCGATCGATGTTGTCTCCCAACATCTGATGATGCAGCGGAAGGGTGAGA
AAATGGGTTCGTTCCAAGTGCACGGGAACCTAGAGGGACAAGGGGTGATTGCCTTTGGCCAGACTAAGGA
CATCATCAGGCAGATCCTTCGGGCTGACGGTCTCCGAGGCTTCTACCGGGGCTATGTGGCCTCGTGCTA
ACGTACATCCCAAACAGTGTCTGTTGGCCCTTCTACCACTTCTATGCAGGT

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG223527 representing NM_001145877
Red=Cloning site Green=Tags(s)

MPGDSELAVQEPDRRSPGTMEDKRNIQIIEWEHLDKKKFYVFGVAMTMMIRVSVYPFTLIRTRLQVQK GK
 SLYHGTFDAFVKILRADGVAGLYRGFLVNTFTLISGQCYVTTYELTRKFVADYSQSNTVKSLVAGGSASL
 VAQSITVPIDVVSQHLMMQRKGEKMGFRQVHGNLEGGQVIAFGQTKDIIRQILRADGLRGFYRGYVASLL
 TYIPNSAVWPPFYHFYAG

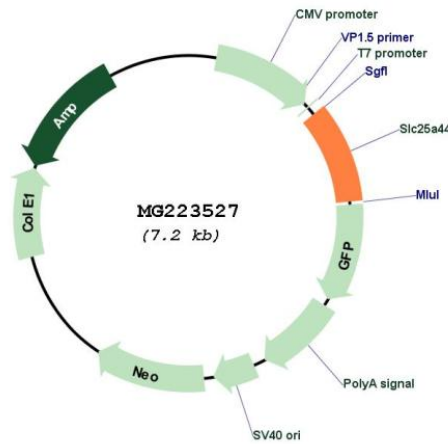
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-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
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]