OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC210054

Mtch2 (NM_019758) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mtch2 (NM_019758) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mtch2
Synonyms:	2310034D24Rik; 4930539J07Rik; HSPC0; HSPC032
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_019758, the custom clone sequence may differ by one or more nucleotides

ATGGCGGACGCGGCCAGTCAGGTGCTCCTGGGCTCCGGTCTCACCATCCTGTCCCAGCCGCTCATGTACG
TGAAAGTGCTCATCCAGGTGGGATATGAGCCTCTTCCTCCAACAATAGGACGAAATATTTTTGGGCGACA
AGTATGTCAGCTTCCTGGCCTCTTTTGCTATGCTCAGCACATTGCAAGCATCGATGGGAGGCGTGGGTTG
TTCACAGGCTTGACTCCAAGACTGTGTTCAGGAGTCCTTGGAACTGTGGTCCATGGGAAAGTCTTACAGT
ATTACCAGGAGTCTGAGAAACCTGAGGAGTTAGGATCTGTAACTGTACAAAAAGAATATTCATCCTCCTT
TGACCGAGTTATCAAAGAGACAACTCGAGAGATGATTGCTCGTTCTGCTGCTACCCTCATTACACATCCC
TTCCACGTGATCACTCTGAGGTCCATGGTACAGTTTATTGGCAGAGAGTCTAAGTACTGTGGACTGTGTG
ACTCCATAGTAACCATCTACCGGGAAGAAGGCATCGTAGGATTTTTTGCGGGTCTCATTCCTCGCCTCCT
AGGTGACATCATTTCTTTGTGGCTGTGTAACTCACTGGCCTATCTCATCAATACCTATGCACTGGACAGT
GGGGTTTCTACCATGAATGAAATGAAAAGTTACTCCCAAGCTGTCACAGGATTCTTTGCCAGTATGTTGA
CATATCCCTTTGTGCTTGTATCTAATCTTATGGCCGTCAACAACTGTGGGCTTGCTGGTGGATCTCCTCC
TTATTCCCCAATATACACTTCTTGGATAGATTGCTGGTGCATGCTACAAAAAGCGGGAAATATGAGCCGA
GGAAACAGCTTGTTTTTCCGGAAGGTTCCTTGTGGGAAGACTTACTGTTATGACCTAAGAATGTTAATCT
GA

Restriction Sites:	SgfI-MluI
ACCN:	NM_019758
Insert Size:	912 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	BC038899, AAH38899
RefSeq Size:	1103 bp
RefSeq ORF:	912 bp
Locus ID:	56428
UniProt ID:	Q791V5
Cytogenetics:	2 E1
Gene Summary:	This gene encodes a member of the SLC25 family of nuclear-encoded transporters that are localized in the inner mitochondrial membrane. Members of this superfamily are involved in many metabolic pathways and cell functions. Genome-wide association studies in human have identified single-nucleotide polymorphisms in several loci associated with obesity. This gene is one such locus, which is highly expressed in white adipose tissue and adipocytes, and thought to play a regulatory role in adipocyte differentiation and biology. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. A recent study showed this gene to be an authentic stop codon readthrough target that can produce two isoforms from the same mRNA by use of alternative in-frame translation termination codons. [provided by RefSeq, Dec 2017] Transcript Variant: This variant (1) represents the predominant transcript and encodes two isoforms, which result from the use of alternative in-frame translation termination codons. The shorter isoform (1) results from translation termination at the upstream UGA stop codon, while the longer isoform (1x) results from UGA stop codon readthrough to the downstream UAG termination codon. This RefSeq represents the shorter isoform (1).