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Product datasheet for RN206548

Mtch2 (NM_001106488) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mtch2 (NM_001106488) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Mtch2
Synonyms:	Hspc032
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN206548 representing NM_001106488 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCGGACGCGGCCAGTCAGGTGCTCCTGGGCTCCGGTCTCACCATCCTGTCCCAGCCGCTCATGTACG TGAAAGTGCTCATCCAGGTGGGATATGAGCCTCTTCCTCCAACAATAGGACGGAATATTTTTGGGCGACA AGTATATCAGCTTCCTGGCCTCTTTTGCTATGCTCAGCACATTGCAAGCATCGATGGGAAGCGTGGGCTG TTCACAGGCTTAACTCCAAGACTGTGTTCAGGAGTCCTTGGAACTGTGGTCCATGGTAAAGTTTTACAGT ATTACCAGGAGTGTGAGAAACCTGAGGACTTAGGATCTGCAAATGTACAAAAAGAATATCCATCCTCCTT TGACCGAGTTATCAAAGAGACAACTCGAGAGATGATTGCTCGTTCTGCTGCTACCCTCATTACACATCCC TTCCACGTGATTACTCTGAGGTCCATGGTACAGTTTATCGGCAGAGAGTCTAAGTACTGCGGACTGTGTG ACTCCATAGTAACCATCTACCGGGAAGAAGGCATCGTAGGATTTTTTGCGGGCCTCATTCCTCGCCTCCT AGGTGACATCATTTCTTTGTGGCTGTGTAACTCACTGGCTTATCTCATCAATACCTATGCACTGGACAGT GGGGTCTCTACCATGAATGAAATGAAAAGTTATTCCCAAGCTGTCACAGGATTCTTTGCCAGTATGTTGA CATATCCCTTTGTGCTTGTATCTAATCTTATGGCTGTTAACAACTGTGGGCTTGCTGGTGGATCTCCTCC TTACTCCCCAATATATACTTCTTGGATAGATTGCTGGTGCATGCTACAAAAAGCGGGAAATATGAGCCGA GGAAACAGCTTGTTTTTCCGGAAGGTTCCTTGTGGGAAGACTTACTATTGTGACCTGAGAATGTTAATTT GA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI
ACCN:	NM_001106488

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Insert Size:	912 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_001106488.3, NP_001099958.2
RefSeq Size:	2359 bp
RefSeq ORF:	912 bp
Locus ID:	295922
Cytogenetics:	3q24
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. 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).

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