

Product datasheet for RR211844

Tusc5 (NM_001039163) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tusc5 (NM_001039163) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Tusc5
Synonyms: DSPB1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RR211844 representing NM_001039163
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCCAACCCAGTGCAGCCTCAGCTTCAAGACCCAGGCTCCACCTCACCTTGGATCTGCCGAGATGG
 AGAAGCTTCTACCAAAGTGGAGAACAAGGATGACCAAGCCTTGAATCTGTCCAAGTCTCTGTCAAGGGC
 TCTGGATCTGGAGCAGATGGTCACAGCCTACCCTTCAAGGTCATCTCCGAGGGGCACCGCAACCTTCC
 CTTTCTGGTTCCCTTCCCGGGCAGCTCTCGGCGAGCATCTCCGTCGTCACCACCTCTACGCCCAGG
 ACCAAGAAGCCCCAAAGATTACCTGGTCCTTGCCATTGCCTCTTGCTTCTGCCCGTCTGGCCCTCAA
 CCTCATCCCCCTCATCTTTCCATCATGTCTCGAAGTAGTGTGCAGCAGGGGGACCTGGATGGGGCACGG
 AGGCTGGGCCGCTGGCAGCGCTGCTTAGCATCACCTTCATCATCTGGGTATCGTTATCATCATCGTGG
 CTGTCACTGTCAACTTCACAGTCCGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR211844 representing NM_001039163
 Red=Cloning site Green=Tags(s)

MANPVQPQLQDPGSTPLDLPMEKLLTKVENKDDQALNLSKSLSGALDLEQNGHSLPFKVISEGHRQPS
 LSGSPSRASSRRASSVTTSYAQDQEPKDYLVLAIASCFPVWPLNLIPLIFSIMSRSSVQQGDLGDGAR
 RLGLRLRLSITFIILGIVIIIVAVTVNFTVPK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



Cloning Scheme:



ACCN: NM_001039163

ORF Size: 519 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:

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_001039163.1](#), [NP_001034252.1](#)

RefSeq Size: 3410 bp

RefSeq ORF: 522 bp

Locus ID: 360576

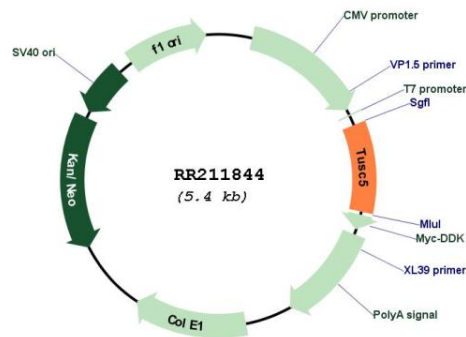
UniProt ID: [Q2MHH0](#)

Cytogenetics: 10q24

MW: 18.7 kDa

Gene Summary: Regulates insulin-mediated adipose tissue glucose uptake and transport by modulation of SLC2A4 recycling. Not required for SLC2A4 membrane fusion upon an initial stimulus, but rather is necessary for proper protein recycling during prolonged insulin stimulation. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR211844