

Product datasheet for **MC228991**

C2cd5 (NM_001286578) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C2cd5 (NM_001286578) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	C2cd5
Synonyms:	5730419I09Rik; C030008B15Rik; CDP138
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228991 representing NM_001286578
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCAGGTGAATTACAGAGAAAGATTGGCTTGAAGTCCTCGAGATGAGAGGGAATGCAGTTGTTGGGT
 ACTTGCAGTGCTTGGATCTGGAGGGCAGTCTGGGTTAGTGGTCCGAGCCATAGGAACGGCGTGCCTCT
 GGATAAAGTACGAGAGCCAGCAGCGTTCCTTCCGATGCAGCTCCCATCCAGAGAACTGAAGGAGATT
 CCCTTCAATGAGGATCCCAACCCCAATACTCACTCATCAGGACCTCAACCCCTCTGAAAAACAAACTT
 ATTCCTTTTACCTTCCAAGTCTACAGTCGGCAGTCTCTTCTTCTGACACAGATTTGAGTTTGACACC
 CAAGACTGGAATGGCAGTGGGAGTGTGGAAAAGAAGGGGGCCCTTTAAAGCCCTTTACGGCAACAG
 ACGCAGTCGGCGTTGGAACAGCGGGAGTCCCCTTCTCACCTGACGGCCTTCCCCCTGGACTTCTTG
 TGCACGTCGGTGGCGTTGTCAGTGCACGCTCTGTGAAGCTTTAGATCGGATCCACAACCTGATGAACC
 AGAACTCGAGATGCATGGTGGCAGAAATCAGACAAGAGATAAAGTCACATGCTAAAGCCTTAGGCTGC
 CATGCTGTAGTGGCTACAGCGAGTCAACCAGCATCTGTGAAGAAGTCTGTATTTATCAGCGTCTGGCA
 CGGCAGCTGTGCTGAACCTCGGTTTCTGCAGGAAGGCACTGTGGAGGGCTGTTTGAACAAGGATTGA
 AGAGAATTTACGGTGGGCTGCGGATTCTGCCATATACCATATGATGAACTGAACATGCCGTTTCCCGCT
 CATCTCACATATTGCTATAACTGCAGGAAGCAAAAAGTCCCTGATGTTCTTCCAACTATCGATCTGC
 CCACAGACGCAGTGGTGTGGTAAAGTGTCTTATTCAGGCAAGGTTATGTCGATTAAGAAAGAAAGC
 ACAGGCAGAAGCAATGCCACAGCTATCAGTAATCTCTTCCGCTTATGGAATATGAAGTACACACTCAA
 CTGATGAACAAGCTCAAAGTCAAAGGAATGAATGCTTTGTTGGACTGAGAATTCAGATCACAGTGGGCG
 AGACCTGCTGATGGGCTTAGCGTGGCCACAGGAGTCTACTAGCAGCCTTACCCACACCCGGTGAAT
 CCAGATCGCTGGGAAGACCCCTAATGATGGCTCCTATGAACAGCACATCTCCACATGCAGAAGAGAATA
 AACGACACCATTGCAAAAAAAGAGGCTGATGAGATACCCCCCGGAGGTGTCTGAGGAGATGATAG
 GATCCCCATCCAGAACCAGACAGCGCTCCAGACTTCTAAGATCACAGTCGGAAGTCTGATGAAGT
 TACAGAGTTAGATCTTTCACACGGGAAAAGGATGCTTTTGTGTTAGAGATCGATGACACCGATGCCATG
 GAAGATGTGACTCCCTCTTACTGACGCCCGCCCTTACAGTTTTTATAGTTGTAATACAGAAATTA
 TGCTTGGCATAAATAACTGGACATCAGAAATACAGATGTTACGTCAGTAAGAGTGGTCAAGTAAAGT
 CCTCAACTTGACTAACCAAGCTCTCAATAAGAAGTCAACGGCCTATGTGAGAACTGCTCAAGAGCCTG
 TATTTCAAAGTTCGGTCCATGACCCCTGCTGCCTCTGCCATGTGAAGTTACAGTGTCTCTGCCTGAAG
 ATGAGTTAATCCAGGTCACAGTCACAGCAGTTCGAATAACTTTTGATAAAAACCAGGCCTTACAGACCAC
 AAAACCCACGTTGAAAAGTCACTACAAAGAGCCTCCACAGATAACGAAGAACTGCTGCAGTTCCTACTG
 GAGCTCTGCTCAGACTCACTGCCTCCTCATCTTTCCAGCAGCTAAAGAACACCTGGAGAGTGGCAACT
 CTAAGTCAAGTATACCAGCTGCACAGAGAGCTGTGACTGTTGAAAAGCAAGTGGCATGGGTGATGGAAA
 TTTCCGGAATCGCTCTGCTCCACCTGTGCAAGTCCCACAGTGGGGTGTAAAGATGACGCCGCTTTCT
 TTCATCCCTGGAGCAAAGATAACCAAGTACCTCGGCATCATTAAAGTGTGTTTTCATTCCGGAAACCACT
 CTCTCCGCGAGGAAGCGGAGTCAAGTGGTTTTCTCCACGCTTTCATTGCTGAAGTGTGTTGCCATGGTCCG
 AGCTCAAGTGGCAGCGCTGGGCGGAATGCTGTTGTGCTCCTACATCATGAAGCAGTGTGCTTTCATGGAG
 AACCCAGTAAGAACCAGGCACAGTGTCTCATAAATGTCAGTGGGACCGGGTGGTGTGTTGTTTCGTGACT
 CCGACTTAGAGGTCATGTCATCTCAGCAGCCTGCTGCCAACTGCCAGCCCTCATGTACCGGAGAAGTTAC
 AACT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001286578
Insert Size: 2457 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001286578.1, NP_001273507.1</u>
RefSeq Size:	4216 bp
RefSeq ORF:	2457 bp
Locus ID:	74741
UniProt ID:	<u>Q7TPS5</u>
Cytogenetics:	6 G3
Gene Summary:	<p>Required for insulin-stimulated glucose transport and glucose transporter SLC2A4/GLUT4 translocation from intracellular glucose storage vesicle (GSV) to the plasma membrane (PM) in adipocytes. Binds phospholipid membranes in a calcium-dependent manner and is necessary for the optimal membrane fusion between SLC2A4/GLUT4 GSV and the PM.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (4) lacks an alternate exon in the 5' coding region and initiates translation at a downstream start codon, compared to variant 1. It encodes isoform 4, which is shorter at the N-terminus, compared to isoform 1.</p>