

Product datasheet for **MC221065**

Trpv6 (NM_022413) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trpv6 (NM_022413) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Trpv6
Synonyms:	Cac; CAT; CaT1; Ecac2; Otrpc3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221065 representing NM_022413
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ACGGGACCTCTACAGAGAGAGGACAGGCCGGCTCTTGGGGGTGCCAATGTGGCCCCAGGGTCGAGCCCCAG
 TTGGGGTCTGGCATCAGCCTCAGCCCCCAAGGAACCAGCCTTCCACCCATGGGGTGGTCCCTGCCCAA
 GGAGAAGGGTTAATACTCTGCCTATGGAACAAGTTCTGCAGATGGTTCCACAGACAAGAGTCTGGGCT
 CAGAGCCGAGACGAGCAGAACCTGCTGCAGCAGAAGAGGATCTGGGAATCACCTCTTCTTAGCTGCCA
 AAGAAAACGATGTCCAGGCTCTGAGCAAGCTGCTCAAGTTTGAAGGATGTGAGGTGCACCAGAGAGGAGC
 CATGGGGAAACTGCACTTACATAGCAGCCCTCTATGATAACCTGGAGGCTGCAATGGTCTAATGGAG
 GCTGCCCCAGAAGTCTTTGAGCCCATGACTTCGGAGCTATATGAAGGTGAGACTGCACTACACATTG
 CAGTAATAAACCCAGAATGTAACCTTGGTCCGTGCTCTGCTTGCCCGAGGGGCCAGTGTCTCTGCCAGAGC
 TACAGGCTCTGTCTTCCACTACAGCCCTCACAACTCATTACTATGGAGAGCACCCCTTTGCTCTTTGCT
 GCCTGTGTGGGTAGTGAGGAGATTGTTAGACTGCTCATTGAGCATGGAGCTGACATCCGTGCCCAGGACT
 CTCTGGGAAATACAGTACTACACATACTCATCCTGCAGCCCAACAAAACCTTTGCCTGCCAGATGTACAA
 CTTGCTACTGTCTATGATGGGGGAGACCCTGAAGTCCCTGGAACCTGTGCCAAATAACCAGGGACTC
 ACCCCCTTCAAGTTGGCTGGGGTGAAGGCAACATTGTGATGTTCCAACACCTGATGCAGAAGCGGAAAC
 ACATCCAGTGGACATATGGGCCATTGACCTCCACACTGTATGACCTCACTGAGATTGACTCCTCAGGAGA
 TGATCAATCCCTACTGGAACCTATTGTTACTACCAAGAAACGGGAGGCTCGCCAGATCCTGGACCAGACA
 CCTGTAAGGAACTGGTGAAGCTCAAGTGAAGAGGTATGGGCGGCCCTACTTCTGCGTGTGGTGCCA
 TCTATGTGCTGTACATCATCTGCTTTACCATGTGCTGTCTACCGCCCGCTCAAGCCAGGATCACTAA
 CCGCACCAACCCCGGGACAACACTCTGATGCAACAGAAGCTCCTTCAGGAGGCCATGTGACCCCTAAG
 GATGACCTCCGGTTGGTGGGGAACTCGTGAGCATCGTTGGGGCTGTGATCATCTGCTGGTGGAGATTC
 CAGACATCTTCAGGTTGGGGTCACTCGATTCTTTGGACAGACCATTCTCGGGGGCCATTCCATGTGAT
 CATTATCACTTATGCCTTCATGGTGTGGTGAACATGGTATGCGACTCACCAATGTAGATGGAGAAGTG
 GTGCCATGTCTTTGCTCTGGTGTGGGCTGGTGAATGTGATGACTTTGCCAGAGGATTCCAGATGC
 TGGGTCCTTACCATCATGATTCAGAAGATGATTTTGGTGACTTGATGCGATTCTGCTGGCTGATGGC
 TGTGGTAATTCTGGATTGCTTCAGCCTTCTATATCATTTTCCAGACAGAGGATCCCGATGAGCTGGGT
 CATTTCTATGACTACCCATGGCACTGTTCAAGCCTTTGAACTTCTCCTCACCATCATCGATGGCCCTG
 CCAACTATGACGTGGATCTGCCCTTCATGTACAGCGTTACCTACGCTGCCTTTGCCATCATCGCCCACT
 GCTCATGCTTAACCTCCTCATTGCCATGATGGGTGACACTCACTGGAGAGTTGCCATGAGCGAGATGAG
 CTCTGGAGAGCACAGGTTGTGGCCACCCTGTGATGTTAGAGCGGAAGCTACCTCGTTGCCGTGGCCCTC
 GCTCTGGGATATGTGGGCGAGAGTATGGTCTTGGCGACCCTGGTCTTGGAGGTGGAAGACAGGCAAGA
 TCTCAACAGACAACGCATCCGCCCTATGCACAGGCCCTCCAGCAACAAGATGGCCTCTACTCTGAGGAC
 TTGAAAAAGATTGAGGAGAAAACTGGAGACAGCACGTCCTTTGGTGCCTATCTGTCTTTCTACAC
 CCTCAGTATCTCGAAGTACCTCCCGAAGCAGCACCAATTGGGAAAGGCTTCGACAAGGGGCCCTGAGGAA
 GGACCTGCGGGGATAATCAACCGGGCCTAGAAGATGGGAGGGCTGGGAGTACCAGAT**CTGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_022413
Insert Size: 2304 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:	<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_022413.4 , NP_071858.3
RefSeq Size:	2946 bp
RefSeq ORF:	2304 bp
Locus ID:	64177
UniProt ID:	Q91WD2
Cytogenetics:	6 B2.1
Gene Summary:	Calcium selective cation channel that mediates Ca(2+) uptake in various tissues, including the intestine (PubMed:12765696, PubMed:12601087, PubMed:12574114, PubMed:14736889, PubMed:15123711, PubMed:17129178). Important for normal Ca(2+) ion homeostasis in the body, including bone and skin (PubMed:17129178, PubMed:22878123). The channel is activated by low internal calcium level, probably including intracellular calcium store depletion, and the current exhibits an inward rectification. Inactivation includes both a rapid Ca(2+)-dependent and a slower Ca(2+)-calmodulin-dependent mechanism; the latter may be regulated by phosphorylation (PubMed:15123711). In vitro, is slowly inhibited by Mg(2+) in a voltage-independent manner (PubMed:12601087). Heteromeric assembly with TRPV5 seems to modify channel properties. TRPV5-TRPV6 heteromultimeric concatemers exhibit voltage-dependent gating (PubMed:12574114).[UniProtKB/Swiss-Prot Function]