

Product datasheet for **RR208885**

Trpv5 (NM_053787) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trpv5 (NM_053787) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trpv5
Synonyms:	CaT2; Ecac1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RR208885 representing NM_053787
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGGGGTGAAAAACCTTGGATCCAACCTCAGAAACGTCTCAACTGGTGGGTGAGAGAACAAGACTGGA
 ACCAGCATGTGGATCAGCTTCATATGCTACAGCAGAAAAGTATTTGGGAGTCACCACTGCTTAGAGCAGC
 CAAGGAAAATGATATGTGCACACTTAAGAGACTTCAACATGACCAGAACTGTGACTTCCGACAAAGAGGA
 GCTCTGGGGGAGACAGCACTGCATGTAGCAGCCCTCTATGACAACCTGGATGCTGCTATAATGCTGATGG
 AGACTGCTCCATACTTGGTCACGGAGTCTACACTGTGTGAGCCATTTGTAGGTCAGACTGCACTGCACAT
 CGCAATTATGAACCAGAATGTGAACCTGGTCCGTGCCCTGCTAGCCCAGGAGCCAGTGCCTCCGCCAGG
 GCTACAGGTTCTGCCTCCATCGAAGTCCCACAACCTCATCTACTATGGAGAACATCCTTTGCTCTTTG
 CTGCCTGTGTGGGTAGTGAGGAGATTGTTAGACTGCTCATTGAGCATGGAGCTGACATTCGGGCCAGGA
 CTCCTTGGGAAATACAGTACTACACATACTTGTCTACAGCCCAACAAAACCTTTGCCTGCCAGATGTAC
 AACCTGCTACTCTCCCATGATGGGGGAGACCACCTGAAGTCCCTGGAACCTGTGCCCCAACCAACCAAGGAC
 TCACCCCTTCAAGCTGGCTGGGGTGAAGGCAACACTGTGATGTTTCAACACCTGATGCAAAAACGGAA
 GCACATCCAGTGGTCATTAGGACCCCTAACATCTTCCATTTATGATCTCACAGAAATGACTCCTGGGGT
 GAGGACTGTCTCTTCTGGAGCTGTGCTTCTCCAAGAAGATAGAGGCTCGTCAGATTCTAGAACAAA
 CCCCTGTGAAGGAGCTGGTGAGCCTGAAGTGAAGAAATATGGACAACCCATTTCTGCCTCCTGGGTAT
 GCTGTACATCTCCTACATGATCTGCTTACCACATGCTGTGTTTACC GCCCCCTCAAGTCCGTGATGCC
 AACCGTACACATGTTAGAGATAACACCGTCTGGAACAGAAACCACTACAGGAAGCGTATGTGACTTACC
 AGGATAAGGTCCGGCTGGTGGGAGAAGTCTGACAGTCAATGGGGCTGTGTTATTCTACTCATAGAGAT
 CCCAGACATCTTCAGAGTTGGTGCCTCTCGCTACTTTGGACACACAGTCTTTGGGGTCCATTCCATGTC
 ATTATCATCACATATGCCTCCCTTGTGCTACTGATTATGGTGATGAGGCTTACCAGTATGAATGGGGAGG
 TGGTCCCCATATCCATGGCCTTGGTACTGGGCTGGTGTAGTGTACTTCTCCCGAGGATTCCAGAT
 GCTGGGCCCTTCACAATCATGATTGAGAAGATGATTTTTGGAGACCTACTGCGCTTCTGCCGGCTAATG
 GCTATGGTCATCCTCGGATTTGCCTCTGCCTTCTATATCATCTTCCAGACCGAGGATCCAGAGAGTCTGG
 GAGAATTCTCCGACTACCCTACAGCAATGTTCCAGCACCTTGGAGCTTCTCCTTACCATCATTGACGGTCC
 GGCCAATTACAGTGTGGATCTACCCTTCATGTACCACCTAACCTATTTTGCTTTTGCATCATCGCCACA
 CTACTCATGCTCAATTTGTTTATTGCCATGATGGGTGACTACTGCGGAGTGGCCAGGAGAGGGGACG
 AACTCTGGAGAGCACAGGTTGTAGCCACCACAGTGTGCTGGAGAGGAAAATGCCCGTTTCTGTGGCC
 TCGCTCTGGTATCTGTGGTTGCGAATATGGCCTGGGAGACCGCTGGTCTTACGGGTTGAACACCACCAG
 GAGCAGAATCCGATCGAGTACTTCGCTATGTGGAAGCTTTCAAATCTTCCAGACAAGGAGGAAAGTACAAG
 AACAACTATCTGAGAAGCAGCCTTCCGGGACTGAGACTGGGACTTTAGCTAGAGGCTCTGTGTTCTGCA
 AACGCCTCCTTTGTCCAGGACTACATCCCTAAGCAGCAATAGCCACCGTGGATGGGAAATCTCCGTCGA
 AACACCTGGGACATTTGAATCTTGGACAAGACCTTGGTGGGGAGACGGAGAGGAGATCTACCATTTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR208885 representing NM_053787
 Red=Cloning site Green=Tags(s)

MGVKKPWIQLQKRLNWWVREQDWNQHVVDQLHMLQQKSIWESPLLRAAKENDMCTLKRLQHDQNCDFRQRG
 ALGETALHVAALYDNLDAAIMLMETAPYLVTSTLCEPFVGTALHIAIMNQNVNLRALLARGASASAR
 ATGSAFHRSSHNLIIYGEHPLSFAACVGSSEIIVRLLEIHGADIRAQDSLGNVTLHILVLQPNKTFACQMY
 NLLL SHDGGDHLKSLLELVPNNQGLTPFKLAGVEGNTVMFQHLMQKRKHQWSLGPLTSSIIYDLTEIDSWG
 EDLSFLELVLSKKIEARQILEQTPVKELVSLKWKYQGPYFCLLGMLYISYMICFTTCCVYRPLKFRDA
 NRTHVRDNTVLEQKPLQEAYVTYQDKVRLVVELVTVIGAVVILLIEIPDIFRVGASRYFGHTVVGPFHV
 IITTYASLVLLIMVMRLTSMNGEVVPIISMALVLGWCSVMYFSRQFQMLGPFTIMI QKMIFGDLRLFCRLM
 AMVILGFASAFYIIFQTEDPESLGEFSDYPTAMFSTFELFTIIDGPANYSVDLPFMYHLTYFAFIIAT
 LLMLNLFIAMMGDTHWRVAQERDELWRAQVATTVMLEKMPRFLWPRSGICGCEYGLGDRWFLRVEHHQ
 EQNPYRVLRYVEAFKSSDKEEVQEQLEKQPSGTETGTLARGSVVLQTPPLSRTTSLSSNSHRGWEILRR
 NTLGHLNLDGDLGEGDGEEIYHF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja2285_d01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



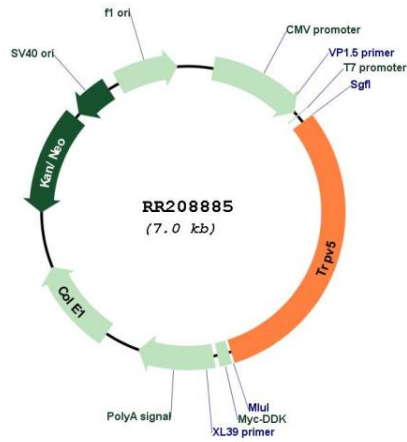
* The last codon before the Stop codon of the ORF

ACCN: NM_053787

ORF Size: 2169 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<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_053787.2, NP_446239.2</u>
RefSeq Size:	4860 bp
RefSeq ORF:	2172 bp
Locus ID:	116469
UniProt ID:	<u>Q9JIP0</u>
Cytogenetics:	4q23
MW:	82.8 kDa
Gene Summary:	mediates calcium uptake; may play a role in calcium transport and reabsorption in the distal nephron [RGD, Feb 2006]

Product images:



Circular map for RR208885