

Product datasheet for **MR225560**

Trpv5 (NM_001007572) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trpv5 (NM_001007572) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trpv5
Synonyms:	CAT2; D630033B11; ECAC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR225560 representing NM_001007572
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGGCTAAAACCTCCTTGGATCCAACCTCAGAACTTCTCAATTGGTGGGTGAGAGACCAAGACTGGA
 ACCAGCAGCTGGATCAGCTACATATGCTACAGCAAAAAAGTATTTGGGAGTCTCCACTGCTTAGAGCAGC
 CAAGGAAAATGATATGTGCACACTTAAGAACTTCAGCATGACCAGAACTGTGACTTCCGGCAAAGAGGA
 GCTCTGGGAGAGACAGCACTGCATGTAGCTGCCCTCTATGATAACCTGGATGCTGCTATAATGCTGATGG
 AGGCTGCTCCATACTTGGTCACAGAGTCCACACTGTGTGAGCCATTTGTAGGTGAGACTGCACTGCACAT
 CGCAGTCATGAACCAGAATGTGAACCTAGTCCGTGCCCTGTTGGCCCGAGGGGCCAGTGCCTCCGCCAGA
 GCTACAGGCTCCGCCTCCATCGAAGTTCACACAACCTCATCTACTATGGAGAACACCCTTTGCTCTTTG
 CTGCTGTGTGGGTAGTGAGGAGATTGTTAGGTTGCTCATTGAGCATGGAGCTGACATCCGTGCCAGGA
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 GAGGAGCTGCTCTTTCTGGAGCTGTGGTTTCTCCAAGAAGAAAGAGGCTCGACAGATTCTAGAACAGA
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 GCTGGGCCCTTCAACATCATGATTGAGAAGATGATTTTTGGAGACCTACTGCGCTTCTGCTGGCTAATG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR225560 representing NM_001007572
 Red=Cloning site Green=Tags(s)

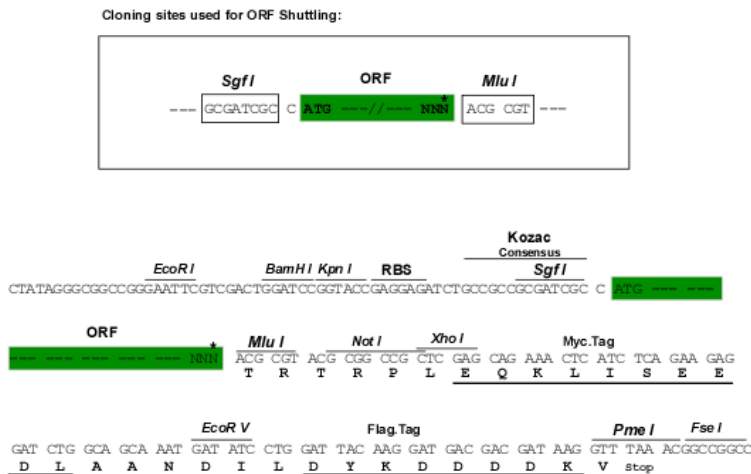
MGAKTPWIQLQKLLNWWVRDQDWNQHVVDQLHMLQQKSIWESPLLRAAKENDMCTLKKLQHDQNCDFRQRG
 ALGETALHVAALYDNLDAAIMLMEAAPYLVTSTLCEPFVGTALHIAVMNQNVNLRALLARGASASAR
 ATGSAFHRSSHNLIIYGEHPLSFAACVGSSEIIVRLLEIHGADIRAQDSLGNLHILVLVLPNKTFACQMY
 NLLLSDYDGGDHLKSLLELVPNNQGLTPFKLAGVEGNTVMFQHLMQKRKRIQWSFGPLTSSLVDLTEIDSWG
 EELSFLLELVSSKKKEARQILEQTPVKELVSLKWKYQPYFCLLGALYIFYMVCFITCCVYRPLKFRDA
 NRTHVRDNTIMEQKSLQEAYVTYQDKIRLVGELVTVIGAVIILLLEIPDIFRVGASRYFGQTVLGGPFHV
 IITYASLVLLTMAMRLTNVNGEVVPMALVLGWCSVMYFARGFQMLGPFTIMI QKMIFGDLLRFCWLM
 AMVILGFASAFYIIFQTEPDNLGEFSDYPTAMFSTFELFTIIDGPANYRVDLPMYSVTYATFAIIAT
 LLMLNLIAMMGDTHWRVAQERDELWRAQVATTVMLEKMPRFLWPRSGICGCEYGLGDRWFLRVEHHQ
 EQNPYRVLRYVEAFKSSDKEEVQEQLEKQPSGTETGTLARGSVVLQTPPLSRTTSLSSNSHRGWEILRR
 NTLGHLNLGLDPGEGDGEIYQF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9013_e10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001007572

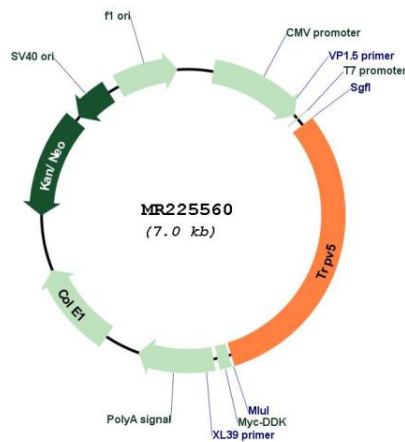
ORF Size: 2169 bp

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_001007572.2](#), [NP_001007573.1](#)
- RefSeq Size:** 2601 bp
- RefSeq ORF:** 2172 bp
- Locus ID:** 194352
- UniProt ID:** [P69744](#)
- Cytogenetics:** 6 B2.1
- MW:** 82.7 kDa
- Gene Summary:** Constitutively active calcium selective cation channel thought to be involved in Ca(2+) reabsorption in kidney and intestine (PubMed:12077127, PubMed:14679186). Required for normal Ca(2+) reabsorption in the kidney distal convoluted tubules (PubMed:14679186). The channel is activated by low internal calcium level and the current exhibits an inward rectification. A Ca(2+)-dependent feedback regulation includes fast channel inactivation and slow current decay (PubMed:12077127). Heteromeric assembly with TRPV6 seems to modify channel properties. TRPV5-TRPV6 heteromultimeric concatemers exhibit voltage-dependent gating (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225560