

Product datasheet for **MR225311**

Trpc6 (NM_013838) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trpc6 (NM_013838) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trpc6
Synonyms:	AV025995; LLHWJM002; LLHWJM003; LLHWJM004; mtrp6; TRP-6; Trrp6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR225311 representing NM_013838
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGAGCCAGAGCCCGAGGTTTCGTGACCCGAGGGGCGGCTCTCTAAAGGCTGCCCTGGAGCCGGCACCC
 GGCACAACGAGAGCCAGGACTATTTGCTGATGGACGAGCTGGGAGACGACGGCTACCCGAGCTCCCGCT
 GCCACCGTATGGCTACTACCCAGCTTCCGGGGTAATGAAAACAGACTGACTCACCGCGGCAGACGATT
 CTTCTGAGAAGGAAGAAGGTTAGCTAATCGAGGACCAGCATACATGTTAATGATCATTCAACAAGCC
 TGTCTATTGAGGAAGAACGCTTTCTAGATGCAGCTGAATATGGCAACATCCAGTGGTGGGAAGATGCT
 AGAAGAGTGTCTCCCTCAATGTTAACTGTGTGGATTACATGGGCCAGAATGCCCTACAGCTGGCTGTG
 GCCAATGAGCACTTGAAATCACAGAGCTGCTACTCAAGAAGGAAAACCTGTCTCGAGTTGGGGATGCTT
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 AGGCAAAAAGGTTAGCGACAAGCCCCAGCCAGTCTGAATTCAGCAAGATGACTTTTATGCCTATGATGAA
 GATGGGACGCGGTTCTCCCATGATGTGACCCCAATCATTCTCGCTGCACATTGCCAGGAATATGAAATTG
 TGCATACCTCCTGAGAAAGGGTGCCCGGATTGAGCGGCCTCATGATTACTTCTGCAAGTGTACAGAATG
 CAGCCAGAAGCAGAAGCATGATTCCCTCAGCCACTCTAGATCCAGGATCAATGCATACAAAGGTCTGGCA
 AGTCCAGCATACCTGTCATTGTCCAGTGAAGATCCAGTCACTGACTGCTTTAGAACTTAGCAATGAGCTGG
 CAGTGTCTGCAACATTGAGAAAGAGTTCAAGAATGACTACAGGAAGCTGTCTATGCAGTGAAGGATTT
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 AAAAAATTTGGTCTCATCAAACCTGTCAAGCAAGCTCCTGTCCATATGGTATGAGAACCCTCTCTGGTTT
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 TCATGGATGGAGATGCTCATTATCCTGGGTAATAGGCATGATATGGGCTGAATGTAAGAAATCTGGA
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 CAGAATAGCTTACATTTTACCAGCAAATGAAAGCTTTGGACCTCTGCAGATTTCACTTGGAAAGACAGT
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 TTTACTCCTACTACATTTGGCGCAAAACAGAATGAAGCATTCAACAGCTTGGGAAAGTTTTAAGACACT
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 ATTTGGTTTTCTACTTTGAGGAGGGGAGAACAACCTTCTGTCCCCTTCAATCTTGTACCAAGTCCAAAA
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 GATATGTATTGCAGGCCAGATTGATAAGGAGAGCGATGAGGTGAATGAAGGGGAATTGAAGGAAATTA
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 CTCATTAGAAAACCTCGGGAGAGACTGTCGTTAGAGCCAAAGCTGGAGGAAAGCCCGAGA

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAAGTTTAA

Protein Sequence: >MR225311 representing NM_013838
 Red=Cloning site Green=Tags(s)

MSQSPRFVTRRGGSLKAAPGAGTRRNESQDYLLMDELGDDGYPQLPLPPYGYPSFRGNENRLTHRRQTI
 LREKGRRLANRGPAYMFNDHSTLSIEEERFLDAAEYGNIPVVRKMLEECHSLNVNVCVDYMGONALQLAV
 ANEHLEITELLKKNELSRVGDALLLAISKGYRIVEAILNHPAFAEGKRLATSPSQSELQDDFYAYDE
 DGTRFSDVTPPIILAAHCQEYEIVHTLLRKGARIERPHDYFCCKTECSQKQKHDSFSHSRSRINAYKGLA
 SPAYLSLSSDPVMTALELSNELAVLANIEKEFKNDYRKL SMQCKDFVVGLLDLCRNTEEVEAILNGDAE
 TRQPGDFGRPNLSRLKLAIKYEVKFFVAHPNCQQQLLSIWYENLSGLRQQTMAVKFLVVLVAIIGLPFLA
 LIYWCAPCSKMGKILRGPFMKFVAHAASFIFLGLLVMNAADRFEFGTKLLPNETSTDNARQLFRMKTSCF
 SWMEMLIISWVIGMIWAECKEITWQGPKEYLFELWNMLDFGMLAIFAASF IARFMAFWHASKAQSIIDAN
 DTLKDLTKVTLGDNVYKYNLARIKWDPTDPQII SEGLYAI AVVLSFSRIAYILPANESFGPLQISLGRTV
 KDIFKFMVIFIMVFVAFMIGMFNLYSYYIGAKQNEAFTTVEESFKTLFWAIFGLSEVKSVVINYNHKFI E
 NIGYVLYGVYVNTMVIVLLNMLIAMINSSFQEIEDDADVEWKFARAKLWFSYFEEGRTPVPFNLVPSPK
 SLLYLLLKFKKWMCELIQGQKQGFQEDAEMNKRNEEKKFGISGSHEDLSKFSLDKNQLAHNKQSSTRSSE
 DYHLNSFSNPPRQYQKIMKRLIKRYVLQAQIDKESDEVNEGELKEIKQDISSLRYELLEESQNTEDLAE
 LIRKLGRLSLEPKLEESRR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

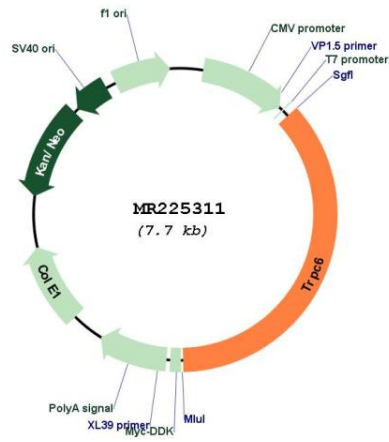


ACCN: NM_013838

ORF Size: 2790 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:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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:	<p>NM_013838.2, NP_038866.2</p>
RefSeq Size:	<p>3259 bp</p>
RefSeq ORF:	<p>2793 bp</p>
Locus ID:	<p>22068</p>
UniProt ID:	<p>Q61143</p>
Cytogenetics:	<p>9 2.46 cM</p>
MW:	<p>107.1 kDa</p>
Gene Summary:	<p>Thought to form a receptor-activated non-selective calcium permeant cation channel. Probably is operated by a phosphatidylinositol second messenger system activated by receptor tyrosine kinases or G-protein coupled receptors. Activated by diacylglycerol (DAG) in a membrane-delimited fashion, independently of protein kinase C. Seems not to be activated by intracellular calcium store depletion.[UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for MR225311