

## Product datasheet for **MR231259**

### Trpc6 (NM\_001282086) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Trpc6 (NM_001282086) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trpc6
Synonyms:	AV025995; LLHWJM002; LLHWJM003; LLHWJM004; mtrp6; TRP-6; Trrp6
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide  
Sequence:

>MR231259 representing NM\_001282086  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGAGCCAGAGCCCGAGGTTTCGTGACCCGAGGGGCGGCTCTCTAAAGGCTGCCCTGGAGCCGGCACCC  
GGCGCAACGAGAGCCAGGACTATTTGCTGATGGACGAGCTGGGAGACGACGGCTACCCGAGCTCCCGCT  
GCCACCGTATGGCTACTACCCAGCTTCCGGGGTAATGAAAACAGACTGACTCACCGCGGCAGACGATT  
CTTCGTGAGAAGGAAGAAGGTTAGCTAATCGAGGACCAGCATACATGTTTAATGATCATTCAACAAGCC  
TGTCTATTGAGGAAGAACGCTTTCTAGATGCAGCTGAATATGGCAACATCCCAGTGGTGGGAAGATGCT  
AGAAGAGTGTCAATCCCTCAATGTTAACTGTGTGGATTACATGGGCCAGAATGCCCTACAGCTGGCTGTG  
GCCAATGAGCACTTGAAATCACAGAGCTGCTACTCAAGAAGGAAAACCTGTCTCGAGTTGGGGATGCTT  
TACTTTTAGCCATTAGTAAAGGTTATGTACGGATTGTGGAGGCAATCCTCAACCATCCAGCTTTTGTCTGA  
AGGCAAAAGGTTAGCGACAAGCCCCAGCCAGTCTGAATTCAGCAAGATGACTTTTATGCCTATGATGAA  
GATGGGACGCGGTTCTCCCATGATGTGACCCCAATCATTCTCGCTGCACATTGCCAGGAATATGAAATTG  
TGCATACCTCCTGAGAAAGGGTCCCGGATTGAGCGGCCTCATGATTACTTCTGCAAGTGTACAGAATG  
CAGCCAGAAGCAGAAGCATGATTCCTTCAGCCACTCTAGATCCAGGATCAATGCATACAAAGGCTGGCA  
AGTCCAGCATACCTGTCATTGTCAGTGAAGATCCAGTCACTGCTTTAGAACTTAGCAATGAGCTGG  
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CGTTGTTGGTCTCTTGGACCTCTGCAGAAACACAGAGGAAGTGGAGGCCATCCTGAATGGGGATGCAGAG  
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AAAAATTTGTGGTCTATCCAACCTGTCAAGCAACAGCTCCTGTCCATATGGTATGAGAACCCTCTGGTTT  
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TCATCTCTGAAGTCTTTATGCAATCGCTGTGGTTTTAAGTTTCTCCAGAATAGCTTACATTTTACCAGC  
AAATGAAAGCTTTGGACCTCTGCAGATTTCACTTGAAGAACAGTGAAGATATCTCAAATTCATGGTC  
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AACAGAATGAAGCATTACAACAGTTGAGGAAAGTTTTAAGACACTGTTCTGGGCTATCTTTGGTCTTTC  
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CTGTCGTTAGAGCCAAAGCTGGAGGAAAGCCGAGA

**ACCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR231259 representing NM\_001282086  
Red=Cloning site Green=Tags(s)

MSQSPRFVTRGGSLKAAPGAGTRRNESQDYLLMDELGDDGYPQLPLPPYGYPSFRGNENRLTHRRQTI  
LREKGRRLANRGPAYMFNDHSTLSIEEERFLDAAEYGNIPVVRKMLEECHSLNVNVCVDYMGONALQLAV  
ANEHLEITELLKKNL SRVGDALLLAISKGYRIVEAILNHPAFAEGKRLATSPSQSELQDDFYAYDE  
DGTRFSDVTPIIILAAHCQEYEVHTLLRKGARIERPHDYFCKCTECSQKQKHDSF SHSRSRINAYKGLA  
SPAYLSLSSDPVMTALELSNELAVLANIEKEFKNDYRKL SMQCKDFVVGLLDL CRNTEEVEAILNGDAE  
TRQPGDFGRPNLSRLKLAIKYEVKKFVAHPNCQQQLLSIWIENLSGLRQQTMAVKFLVVLAVAIGLPFLA  
LIYWCAPCSKMGKILRGPFMKFVAHAASFTIFLGLLVMNAADRFEFGKLLPNETSTDNARQLFRMKTSCF  
SWMEMLIISWVIARIKWDPDTPQII SEGLYAIIVL SFSRIAYIL PANESFGPLQISLGRVTKDIFKFMV  
IFIMVFVAFMIGMFNL SYIYIGAKQNEAFTTVEESFKTLFWAIFGLSEVKSVINYNHFKIENIGYVLYG  
VYNVTMIVLLNMLIAMINSSFQEI EDDADVEWKFARAKLWFSYFEEGRTL PVPFNLVSPKSLLYLLK  
FKKWMCELIQGKQGFQEDAEMNKRNEEKKFGISGSHEDLSKFSLDKNQLAHNKQSTRSSEYHLNFSF  
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LSLEPKLEESRR

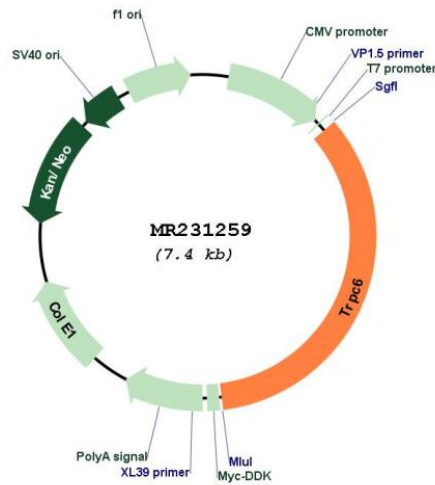
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

Cloning Scheme:



Plasmid Map:



<b>ACCN:</b>	NM_001282086
<b>ORF Size:</b>	2556 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001282086.1</a> , <a href="#">NP_001269015.1</a>
<b>RefSeq Size:</b>	3025 bp
<b>RefSeq ORF:</b>	2559 bp
<b>Locus ID:</b>	22068
<b>Cytogenetics:</b>	9 2.46 cM
<b>MW:</b>	98.1 kDa
<b>Gene Summary:</b>	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]