

Product datasheet for MR229746

Trpc6 (NM_001282087) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trpc6 (NM_001282087) 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)
ORF Nucleotide Sequence:	>MR229746 representing NM_001282087 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCCAGAGCCCGAGGTTCTGTGACCCGAGGGCGGCTCTCTAAAGGCTGCCCTGGAGCCGGCACCC
GGCGCAACGAGAGCCAGGACTATTTGCTGATGGACGAGCTGGGAGACGACGGCTACCCGACGCTCCCGCT
GCCACCGTATGGCTACTACCCAGCTTCCGGGGTAATGAAAACAGACTGACTCACCGCGGCAGACGATT
CTTCGTGAGAAGGAAGAAGGTTAGCTAATCGAGGACCAGCATACATGTTAATGATCATTCAACAAGCC
TGCTATTGAGGAAGAAGCTTTCTAGATGCAGCTGAATATGGCAACATCCAGTGGTGGGAAGATGCT
AGAAGAGTGTCAATCCCTCAATGTTAACTGTGTGGATTACATGGGCCAGAATGCCCTACAGCTGGCTGTG
GCCAATGAGCACTTGAAATCACAGAGCTGCTACTCAAGAAGGAAAACCTGTCTCGAGTTGGGGATGCTT
TACTTTTAGCCATTAGTAAAGGTTATGTACGGATTGTGGAGGCAATCCTCAACCATCCAGCTTTTGTCTGA
AGGCAAAAGGTTAGCGACAAGCCCCAGCCAGTCTGAACCTCAGCAAGATGACTTTTATGCCTATGATGAA
GATGGGACGCGGTTCTCCCATGATGTGACCCCAATCATTCTCGCTGCACATTGCCAGGAATATGAAATTG
TGCATACCCTCCTGAGAAAGGTTGCCCGGATTGAGCGGCTCATGATTACTTCTGCAAGTGTACAGAATG
CAGCCAGAAGCAGAAGCATGATTCTTCAGCCACTCTAGATCCAGGATCAATGCATACAAGGTCTGGCA
AGTCCAGCATACCTGTCATTGTCCAGTGAAGTCCAGTCACTGCTTTAGAACTTAGCAATGAGCTGG
CAGTGTCTGCCAACATTGAGAAAGAGTTCAAGAATGACTACAGGAAGCTGTCTATGCAGTGAAGGATTT
CGTTGTTGGTCTCTTGGACCTCTGCAGAAACACAGAGGAAGTGGAGGCCATCCTGAATGGGGATGCAGAG
ACTCGCCAGCCCGGGGACTTCGGCCGTCAAAATCTCAGCCGTTTAAAACCTTGCTATTAAGTATGAAGTAA
AAAAAGTAAGGCAGGGCGTGAGGCCCTTTGTTACTTCAGTTTGTGTGTGGATATGCCAAGCTGGAAA
GAGCAGGGGGTTCATCCCGAGGAAGCATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229746 representing NM_001282087
 Red=Cloning site Green=Tags(s)

MSQSPRFVTRGGSLKAAPGAGTRRNESQDYLLMDELGDDGYPQLPLPPYGYPSFRGNENRLTHRRQTI
 LREKGRRLANRGPAYMFNDHSTLSIEEERFLDAAEYGNIPVVRKMLEECHSLNVNCVDYMGONALQLAV
 ANEHLEITELLKKNL SRVGDALLLAISKGYRIVEAILNHPAFAEGKRLATSPSQSELQDDFYAYDE
 DGTRFSDVTPPIILAAHCQEYEIVHTLLRKGARIERPHDYFCCKTECSQKQKHDSF SHSRSRINAYKGLA
 SPAYLSLSSDPVMTALELSNELAVLANIEKEFKNDYRKL SMQCKDFVGLLDLCRNTEEVEAILNGDAE
 TRQPGDFGRPNLSRLKLAIKYEVKVRQGVRLCYFSLCVWICQAGKSRGSSRGS I

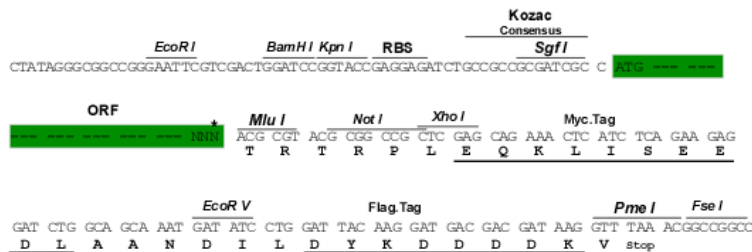
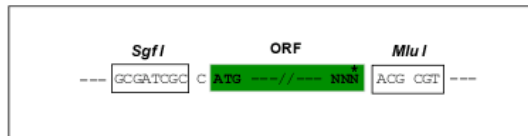
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001282087

ORF Size: 1218 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_001282087.1](#), [NP_001269016.1](#)

RefSeq Size: 3235 bp

RefSeq ORF: 1221 bp

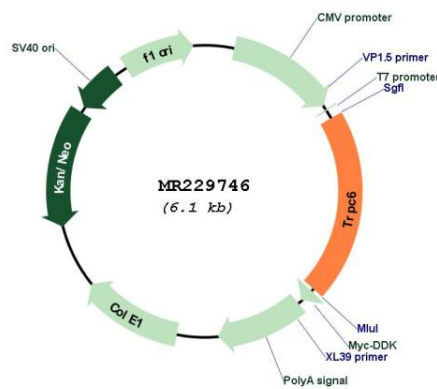
Locus ID: 22068

Cytogenetics: 9 2.46 cM

MW: 46.4 kDa

Gene Summary: 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]

Product images:



Circular map for MR229746