

Product datasheet for **RC230502**

TRP 7 (TRPC7) (NM_001167577) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRP 7 (TRPC7) (NM_001167577) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TRP 7
Synonyms:	TRP7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC230502 representing NM_001167577
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTGAGGAACAGCACCTTCAAAAACATGCAGCGCCGGCACACAACGCTGAGGGAGAAGGGCCGTCGCC
 AGGCCATCCGGGGTCCCGCTACATGTTCAACGAGAAGGGCACCACTGCTGACGCCGAGGAGGAGCGCTT
 CCTGGACTCGGCTGAGTATGGCAACATCCCGTGGTCCGAAAATGCTGGAGGAGTCCAAGACCCTTAAC
 TTCAACTGTGTGGACTACATGGGGCAGAACGCTCTGCAGCTGGCCGTGGGCAACGAGCACCTAGAGGTCA
 CGGAGCTGCTGTGAAGAAGGAGAACCTGGCACGGGTGGGGACGCGCTGCTGCTGGCCATCAGCAAGGG
 CTATGTGCGCATCGTGGAGGCCATCCTCAACCACCCGGCCTTCGCGCAGGGCCAGCGCTGACGCTCAGC
 CCGCTGGAACAGGAGCTGCGCGACGACGACTTCTATGCCTACGACGAGGACGGCACGCGCTTCTCCCACG
 ACATCACGCCCATCATCCTGGCGGCGCACTGCCAGGAGTATGAGATCGTGCACATCCTGCTGCTCAAGGG
 CGCCCGCATCGAGCGGCCACGACTACTTCTGCAAGTGAATGAGTGCACCGAGAAAACAGCGGAAAGAC
 TCCTTCAGCCACTCGCGCTCGCGCATGAACGCCTACAAAGGACTGGCGAGTGTGCTACTTGTCCCTGT
 CCAGCGAAGACCCTGTCCTCACCGCCCTGGAGCTCAGCAACGAGTTAGCCAGACTAGCCAACATTGAGAC
 TGAATTTAAGTTCGTTGCTCATCCTAAGTGTGACGAGCAATTGCTTACCATGTGGTATGAAAATCTCTCA
 GGCTTACGTCAACAGTCTATCGCTGTGAAATTCCTGGCTGCTTTGGAGTCTCCATAGGCCCTCCCTTTTC
 TCGCCATAGCCTATTGGATTGCTCCGTGACGAAGCTAGGACGAACCCTGAGGAGCCCTTTCATGAAGTT
 TGTAGCTCATGCAGTTTCTTTTACAATCTTCTGGGATTATTAGTTGTGAATGCATCTGACCGATTTGAA
 GGTGTTAAAACCTGCCAAACGAAACCTTACAGACTACCCAAAACAAATCTTCAGAGTGAACACACAC
 AGTTCTCCTGGACAGAAATGCTCATTATGAAGTGGGCTTAGGAATGATTTGGTCCGAATGCAAGGAAAT
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 TTCGTGGCCTCCTTACAGCACGCTTTCATGGCCTTCTGAAGGCCACGGAGGCACAGCTGTACGTGGACC
 AGCACGTGACGAGCAGACGCTGCAACAATGTCTCGCTTCCGCCGGAAGTGGCATACTTCACTACGCCAG
 GGACAAGTGGTGGCCTTCAGACCCTCAGATCATATCGGAAGGGCTCTACGCGATAGCCGTGCTGCTGAGC
 TTCTCTCGCATTGCATACATTCTGCCAGCAACGAGAGTTTTGGGCCCTGCAGATCTCGCTAGGGAGAA
 CTGTGAAAGATATCTTCAAGTTCATGGTCATTTTCATCATGGTATTTGTGGCCTTCATGATTGGGATGTT
 CAACCTGTACTCTTACTACCGAGGTGCCAAATACAACCCAGCGTTTACAACGGTTGAAGAAAGTTTTAAA
 ACTTTGTTTTGGTCCATATTCGGCTTATCTGAAGTAATCTCAGTGGTGTGAAATACGACCACAAATTCA
 TCGAGAACATTGGCTACGTTCTCTACGGCGTTTATAACGTCACCATGGTGGTAGTGTGCTCAACATGCT
 AATAGCCATGATAAACTCCTATCAGGAAATGAGGAGGATGCAGATGTGGAATGGAAGTTCCGCCGA
 GCAAACTCTGGCTGTCTTACTTTGATGAAGGAAGAACTTACCTGCTCCTTTTAACTAGTGCCAAAGTC
 CTAATCATTTTTATTATCTCATAATGAGAATCAAGATGTGCCTCATAAACTCTGCAAACTAAGGCCAA
 AAGCTGTGAAAATGACCTTGAATGGGCATGCTGAATCCAAATCAAGAAGACTCGCTACCAGGCTGGC
 ATGAGGAATTCTGAAAATCTGACAGCAAATAACACTTTGAGCAAGCCCACCAGATACCAGAAAATCATGA
 AACGGCTCATAAAAAGATACGTCTGAAAGCCCAGGTGGACAGAGAAAATGACGAAGTCAATGAAGGCGA
 GCTGAAGGAAAATCAAGCAAGATATCTCCAGCCTGCGCTATGAGCTTCTTGAGGAAAAATCTCAAGCTACT
 GGTGAGCTGGCAGACCTGATTCAACTCAGCGAGAAGTTTGGAAAGAACTTAAACAAAAGACCACCTGA
 GGGTGAACAAGGGCAAAGACATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC230502 representing NM_001167577
Red=Cloning site Green=Tags(s)

MLRNSTFKNMQRHHTTLREKGRRAIRGPAYMFNEKGTSLTPEEERFLDSAEGNIPVVRKMLEESKTLN
FNCVDYMGQNALQLAVGNEHLEVTELLKKENLARVGDALLLAISKGYRIVEAILNHPAFAQQRLTSL
PLEQELRDDDFYAYDEDGTRFSDITPIILAAHCQEYEVHILLKGGARIERPHDYFCKCNECTEKQRKD
SFSHSRMRMAYKGLASAAVLSSEDPVLTALEL SNELARLANIETEFKFAHPNCQQQLLTMWYENLS
GLRQQSIQVAVKFLAVFGVSIPLFLAIAYWIAPCSKLGRTLRSFPMKFVAHAVSFTIFLGLLVVNASDRFE
GVKTLPNETFTDYPKQIFRVKTTQFSWTEMLIMKWVWLGMIWSECKEIWEEGPREYVHLWNLDFGMLSI
FVASFTARFMAFLKATEAQLYVDQHVQDDTLHNVSLPPEVAYFTYARDKWWPSDPQIISEGLYAIYVLS
FSRIAYILPANESFGPLQISLGRVTKDIFKFMVIFIMVFVAFMIGMNLYSYRGAKYNPAFTTVEESFK
TLFWSIFGLSEVISVVLKYDHKFIENIGYVLYGVYVNTMVVLLNMLIAMINNSYQEIIEEDADVEWKFAR
AKLWLSYFDEGRTLPAFNLVSPKSFYLLIMRIKMLIKLCKSKAKSCENDLEMGLNSKFKKTRYQAG
MRNSENLTANNTLSKPTRYQKIMKRLIKRYVLLKAQVDRENDEVNEGELKEIKQDISSRLYELLEESQAT
GELADLIQQLSEKFGKLNKDHRLRVNKGKDI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8007_b08.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_001167577

ORF Size: 2403 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_001167577.2](#)

RefSeq ORF: 2406 bp

Locus ID: 57113

UniProt ID: [Q9HCX4](#)

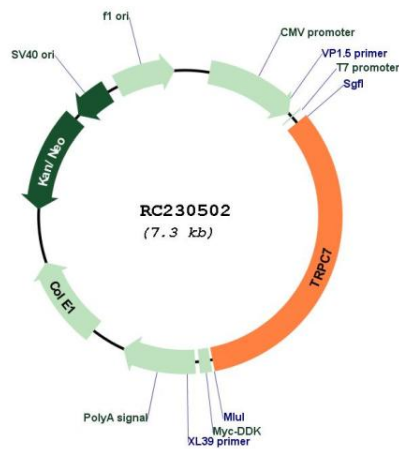
Cytogenetics: 5q31.1

Protein Families: Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane

MW: 92.9 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) (By similarity). May also be activated by intracellular calcium store depletion. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC230502