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Product datasheet for RR209640

Trpc1 (NM_053558) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trpc1 (NM_053558) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trpc1
Synonyms:	Trrp1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RR209640 representing NM_053558
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATGGCGGCCCTGTACCCGAGCACGGACCTCTCTGGCGTCTCCTCCTCCTCCCTGCCTTCCTCCCCAT
CCTCCTCATCGCCCAACGAAGTGATGGCGCTGAAGGATGTGCGAGAGGTGAAGGAGGAGAACACCTTGAA
TGAGAAGCTTTTCTTGCTGGCGTGCGACAAGGGTGACTATTATATGGTTAAAAAGATTTTGGAGGAAAAC
AGTTCAGGTGACTTGAACATAAATTGCGTAGATGTGCTTGGGAGAAATGCTGTTACCATAACTATTGAAA
ACGAAAGCTTGGATATACTGCAGCTGCTTTTGGACTACGGTTGTCAGAAACTTATGGAACGAATTCAGAA
TCCGGAATACTCAACAACAATGGATGTTGCACCAGTTATTTTAGCTGCTCATCGTAACAACTATGAGATC
CTCACAATGCTTCTGAAGCAGGACGTGGCTTTGCCCAAGCCCCATGCTGTTGGCTGTGAATGCACGCTGT
GTTCTGCGAAAAACAAAAAGGACAGCCTCAGACATTCCAGGTTTCGTCTTGATATCTATAGATGTCTGGC
CAGTCCAGCTCTAATAATGTTAACAGAGGAGGATCCAATTCTGAGAGCGTTTGAACTTAGTGCTGACTTA
AAGGAACTCAGCCTTGTGGAGGTGGAATTCTGGAATGACTATGAAGAGCTAGCCCGTCAGTGCAAAATGT
TTGCTAAAGATTTGCTTGCGCAAGCTCGGAATTCTCGTGAACTGGAAGTTATCCTAAACCATACATCTAG
TGATGAGCCTCTTGACAAACGAGGACTACTAGAAGAAAGAATGAATTTAAGTCGTCTGAAACTTGCTATC
AAATATAACCAGAAGGAGTTTGTCTCCCAGTCAAATTGCCAGCAGTTCCTGAACACCGTTTGGTTCGGAC
AGATGTCAGGTTACCGCCGTAAGCCCACCTGTAAGAAGATAATGACTGTTTTGACAGTTGGCATTTTCTG
GCCAGTTCTGTCACTGTGTTACTTGATAGCTCCCAAATCTCAATTCGGCAGAATCATTCACACACCGTTC
ATGAAGTTTATTATTCATGGAGCTTCATATTTCACATTCTTGCTGTTACTCAATCTCTACTCACTTGTCT
ACAATGAGGACAAGAAAAATACAATGGGGCCAGCCCTTGAGAGAATAGACTACCTTCTCATACTGTGGAT
TATTGGGATGATTTGGTCAGACATTAAGAGGCTGTGGTATGAAGGGTTGGAAGACTTCTTAGAAGAATCT
CGTAACCAGCTCAGCTTTGTTATGAATTCCCTTTACTTGGCAACTTTTGCCCTCAAAGTGGTGGCTCACA
ACAAGTTTCATGATTTTGCCGACCGGAAGGACTGGGATGCGTTCCACCCCACACTGGTAGCAGAAGGGCT
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CCACTGCAGATTTCAATGGGACAGATGTTACAAGATTTTGGGAAATTTCTAGGAATGTTCCTTCTTGTTC
TGTTTTCCTTCACGATTGGACTGACACAGCTCTATGACAAAGGGTACACTTCCAAAGAGCAGAAGGACTG
CGTAGGCATCTTCTGTGAACAGCAAAGCAACGACACCTTCCACTCGTTCATTGGCACCTGCTTTGCTCTG
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GGTAGCGATGCTTCATAAGAGCTTCCAGCTGATAGCAAATCATGAGGATAAAGAATGGAAGTTTGCTCGA
GCGAAGCTATGGCTCAGCTACTTTGATGACAAATGCACACTGCCCCCACCTTTCAACATCATTCCTTCTC
CGAAGACTATCTGCTATATGATCAGCAGCCTCAGCAAGTGGGTGTGCTCGCACACCTCCAAAGGCAAGGT
CAGACGGCAGAACAGCTTGAAGGAGTGGAGAAACTTAAAACAAAAGAGAGATGAGAACTACCAGAAGGTG
ATGTGCTGCCTAGTGCATCGATACCTGACCTCCATGCGACAGAAGATGCAGAGCACAGACCAAGCCACCG
TGGAGAATCTCAATGAACTGCGCCAAGATCTGTCAAAATTCCGAAATGAAATAAGGGATTTGCTTGGCTT
TCGGACTTCTAAATATGCTATGTTTTATCCCAAAAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

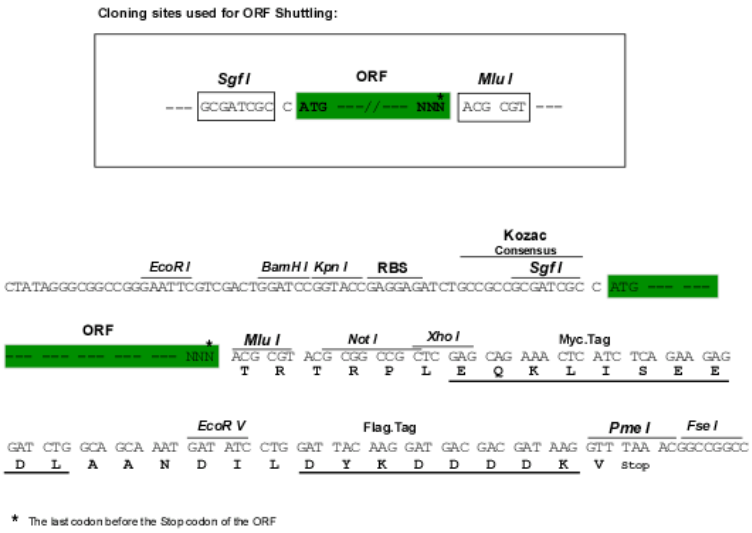
>RR209640 representing NM_053558
Red=Cloning site Green=Tags(s)

MMAALYPSTDLSGVSSSSLPSSPSSSSPNEVMALKDVREVKEENTLNEKLFLLACDKGDYYMVKKILEEN
SSGDLNINCVDVLGRNAVTITIENESLDILQLLLDYGCQKLMERIQNPEYSTTMDVAPVILAAHRNNYEI
LTMLLKQDVALPKPHAVGCECTLCSAKNKKDSLRHSRFRLDIYRCLASPALIMLTEEDPILRAFELSADL
KELSLVEVEFWNDYEELARQCKMFAKDLLAQARNSRELEVILNHTSSDEPLDKRGLLEERMNLSRLKLAI
KYNQKEFVSQSNCQQFLNTVWFGQMSGYRRKPTCKKIMTVLTVGIFWPVLSLCYLIAPKSQFGRIIHTPF
MKFIIHGASYFTFLLLLNLYSLVYNEDKKNTMGPALERIDYLLILWIIGMIWSDIKRLWYEGLEDFLEES
RNQLSFVMNSLYLATFALKVVAHNKFHDFADRKDWDAFHPTLVAEGLFAFANVLSYLRLFFMYTTSSILG
PLQISMGQMLQDFGKFLGMFLLVLFSFTIGLTQLYDKGYTSKEQKDCVGIFCEQQSNDTFHSFIGTCFAL
FWYIFSLAHVAIFVTRFSYGEELQSFVGAVIVGTYNVVVVIVLTKLLVAMLHKSFQLIANHEDKEWKFAR
AKLWLSYFDDKCTLPPPFNIIPSPKTICYMISSLSKWVCSHTSKGKVRRQNSLKEWRNLKQKRDENYQKV
MCCLVHRYLTSMRQKMQSTDQATVENLNELRQDLSKFRNEIRDLLGFRTSKYAMFYPKN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_053558

ORF Size: 2277 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_053558.1, NP_446010.1

RefSeq Size: 4015 bp

RefSeq ORF: 2280 bp

Locus ID: 89821

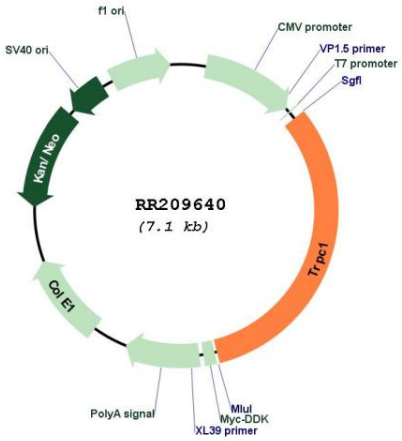
UniProt ID: Q9QX01

Cytogenetics: 8q31

MW: 87.6 kDa

Gene Summary: mouse homolog is a capacitative calcium entry channel [RGD, Feb 2006]

Product images:



Circular map for RR209640