

Product datasheet for RC213443

TRPM1 (NM_002420) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRPM1 (NM_002420) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TRPM1
Synonyms:	CSNB1C; LTRPC1; MLSN1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC213443 representing NM_002420 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAAGACTCTAACAGGTGTTGCTGTGGCCAGTTCACCAACCAGCATATCCCCCTCTGCCAAGTGCAA
CACCCAGCAAAAATGAAGAGGAAAGCAAACAGGTGGAGACTCAGCCTGAGAAATGGTCTGTTGCCAAGCA
CACCCAGAGCTACCCAACAGATTCCTATGGAGTCTTGAATCCAGGGTGGCGGATTTCCAATAAAGCC
ATGTATATCCGTGTATCCTATGACACCAAGCCAGACTCACTGCTCCATCTCATGGTAAAAGATTGGCAGC
TGGAACTCCCAAGCTCTTAATATCTGTGCATGGAGGCCTCCAGAACTTTGAGATGCAGCCCAAGCTGAA
ACAAGTCTTTGGGAAAGGCCTGATCAAGGCTGCTATGACCACCGGGCCTGGATCTTACCAGGGGGTGT
AGCACAGGTGTTATCAGCCACGTAGGGGATGCCTTGAAGACCACTCCTCCAAGTCCAGAGGCCGGGTTT
GTGCTATAGGAATTGCTCCATGGGGCATCGTGGAGAATAAGGAAGACCTGGTTGGAAGGATGTAACAAG
AGTGTACCAGACCATGTCCAACCCTCTAAGTAAGCTCTCTGTGCTCAACAACCTCCACACCCACTTCATC
CTGGCTGACAATGGCACCTGGGCAAGTATGGCGCCGAGGTGAAGCTGCGAAGGCTGTGGAAAAGCACA
TCTCCCTGCAGAAGATCAACACAAGACTGGGGCAGGGCGTGCCTCCTGTTGGTCTCGTGGTGGAGGGGG
CCCTAACGTGGTGTCCATCGTCTTGAATACCTGCAAGAAGAGCCTCCCATCCCTGTGGTATTTGTGAT
GGCAGCGGACGTGCCTCGGACATCCTGTCTTTGCGCACAAGTACTGTGAAGAAGCGGAAATAATAATG
AGTCCCTCAGGGAGCAGCTTAGTACCATTACAGAAAACATTTAATTATAATAAGGCACAATCACATCA
GCTGTTTGCAATTATAATGGAGTGCATGAAGAAGAAAGAACTCGTCACTGTGTTGAGAATGGGTTCTGAG
GGCCAGCAGGACATCGAGATGGCAATTTAACTGCCCTGCTGAAAGGAACAAACGTATCTGCTCCAGATC
AGCTGAGCTTGGCACTGGCTTGAACCGCGTGGACATAGCACGAAGCCAGATCTTTGCTTTGGCCCCA
CTGGCCGCCCTGGGAAGCCTGGCACCCCGACGGACAGCAAAGCCACGGAGAAGGAGAAGAAGCCACCC
ATGGCCACCACCAAGGGAGGAAGAGGAAAAGGCAAGAAGAAAGGAAAGTAAAAGAGGAAGTGG
AGGAAGAAACTGACCCCGGAAGATAGAGCTGCTGAAGTGGTGAATGCTTTGGAGCAAGCGATGCTAGA
TGCTTTAGTCTTAGATCGTGTGACTTTGTGAAGCTCCTGATTGAAAACGGAGTGAACATGCAACACTTT



[View online >](#)

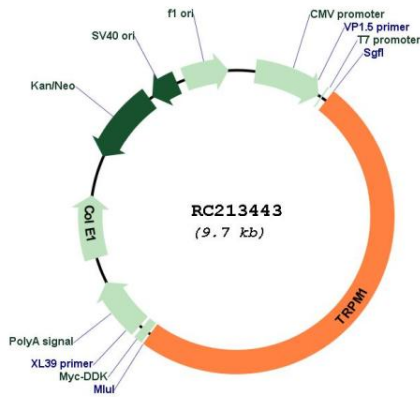
CTGACCATTCCGAGGCTGGAGGAGCTTTATAACACAAGACTGGGTCCACCAAACACACTTCATCTGCTGG
 TGAGGGATGTGAAAAAGAGCAACCTTCCGCCTGATTACCACATCAGCCTCATAGACATCGGGCTCGTGCT
 GGAGTACCTCATGGGAGGAGCCTACCGCTGCAACTACACTCGAAAAACTTTCCGACCCTTTACAACAAC
 TTGTTTGGACCAAAGAGGCCTAAAGCTCTTAAACTTCTGGGAATGGAAGATGATGAGCCTCCAGCTAAAG
 GGAAGAAAAAGAAAAAGAAAAAGGAGGAAGAGATCGACATTGATGTGGACGACCCTGCCGTGAGTCG
 GTTCCAGTATCCCTTCCACGAGCTGATGGTGTGGCAGTGCTGATGAAACGCCAGAAAAATGGCAGTGTTCC
 CTCTGGCAGCGAGGGGAAGAGAGCATGGCCAAGGCCCTGGTGGCCTGCAAGCTCTACAAGGCCATGGCCC
 ACGAGTCCCTCCGAGAGTGATCTGGTGGATGACATCTCCAGGACTTGATAAACAATCCAAAGACTTCGG
 CCAGCTTGCTTTGGAGTTATTAGACCAGTCTATAAGCATGACGAGCAGATCGCTATGAAACTCCTGACC
 TACGAGCTGAAAAACTGGAGCAACTCGACTGCCTCAAAGTGGCCGTGGCAGCCAAAACCCGGGACTTCA
 TTGCTCACACCTGCAGCCAGATGCTGCTGACCGATATGTGGATGGGAAGACTGCGGATGCGGAAGAACC
 CGGCCTGAAGTTATCATGGGATTCTTCTACCCCCACCATCTGTTTTTGAATTTCCGCACATATGAT
 GATTTCTCGTATCAAACATCCAAGGAAATGAGGATGGCAAAGAAAAAGAGGAAAAATACGGATGCAA
 ATGCAGATGCTGGCTCAAGAAAGGGGATGAGGAGAACGAGCACAAAAACAGAGAAGTATCCCATCGG
 AACAAAGATCTGTGAATTCTATAACGCGCCCATTTGTCAAGTTCTGTTTTACACAATATCATACTGGGC
 TACCTGCTGCTGTTAACTACGTATCCTGGTGGGATGGATGGCTGGCCGTCCCTCCAGGAGTGGATCG
 TCATCTCTACATCGTGAGCCTGGCGTTAGAGAAGATACGAGAGATCCTCATGTCAGAACCAGGCAAAC
 CAGCCAGAAAAATCAAAGTTTGGCTTCCAGGACTGGAACATCACAGATCTCGTGGCCATTTCCACATTC
 ATGATTGGAGCAATTTCTCGCTACAGAACCAGCCCTACATGGGCTATGGCCGGGTGATCTACTGTGTGG
 ATATCATCTTCTGGTACATCCGTGCTCTGGACATCTTGGTGTCAACAAGTATCTGGGGCCATACGTGAT
 GATGATTGAAAGATGATGATCGACATGCTGTACTTTGGTGTGATCATGCTGGTGGTGTGCTGATGAGTTT
 GGAGTAGCCCGTCAAGCCATTCTGCATCCAGAGGAGAAGCCCTTTGGAAACTGGCCGAAACATCTTCT
 ACATGCCCTACTGGATGATCTATGGAGAGTGTGGTGCAGACCAGATAGACCTCTACGCCATGGAAATTA
 TCCTCCTTGTGGTGAAGACTATATGATGAGGAGGCAAGCGGCTTCTCCTGTATCCCCGGCCGCTGG
 CTCACTCCAGCACTCATGGCGTGTATCTACTGGTCCCAACATCCTGCTGGTGAACCTGCTGATTGCTG
 TGTTCAACAATACCTTCTTTGAAGTAAAAATCAATATCCAACCAGGTGTGGAAGTCCAGCGATATCAGCT
 GATTATGACATTTATGACAGGCCAGTCTGCCCCACCGATGATCATTTTAAGCCACATCTACATCATC
 ATTATGCGTCTCAGCGCCGCTGCAGGAAAAAGAGAGAAGGGGACCAAGAGGAACGGGATCGTGGATTGA
 AGCTCTTCTTAGCGACGAGGAGCTAAAGAGGCTGCATGAGTTCGAGGAGCAGTGCCTGCAGGAGCACTT
 CCGGGAGAAGGAGGATGAGCAGCAGTCTCCAGCGACGAGCGCATCCGGGTCACTTCTGAAAGATTGAA
 AATATGTCAATGAGGTTGGAAGAAATCAATGAAAGAGAACTTTTATGAAACTTCCCTGCAGACTGTTG
 ACCTTCGACTTGCTCAGCTAGAAGAATTCTAACAGAATGGTGAATGCTCTGAAAAATCTTCCGGGAAT
 CGACAGGTCTGACCTGATCCAGGCACGGTCCCGGGCTTCTTCTGAATGTGAGGCAACGTATCTTCTCCGG
 CAAAGCAGCATCAATAGCGCTGATGGCTACAGCTTGATCGATATCATTTTAACGGAGAAGGATTATTAT
 TTGAGGATACATCTCTCCACGTCAACAGGGACAGGAGTCAAGAAAAAACCTGTTCTTCCGTATAAA
 GGAAGAGAAGGACGTGAAAACGCACCTAGTCCCAGAATGTGAGAACAGTCTTACCTTCCACTGGGCACA
 AGCACATCAGCAACCCAGATGGCAGTCACTTGCAGTAGATGACTTAAAGAACGCTGAAGAGTCAAAAT
 TAGGTCAGATATTGGGATTTCAAAGGAAGATGATGAAAGACAGACAGACTCTAAAAAGAAAGAACTAT
 TTCCCAAGTTTAAATAAACAGATGTGATACATGGACAGGACAAATCAGATGTTCAAAACACTCAGCTA
 ACAGTGGAAACGACAAAATATAGAAGGCACTATTTCTATCCCCTGGAAGAAACAAAATTACACGCTATT
 TCCCCGATGAAACGATCAATGCTTGTAACAATGAAGTCCAGAAGCTTCGTCTATTCCCGGGGAAGAAA
 GCTGGTGGTGGGTTAACCAGGATGTAGAGTACAGTTCAATCACGGACCAGCAATTGACGACGGAATGG
 CAATGCCAAGTTCAAAGATCACGCGCTCTCATAGCACAGATATTCCTTACATTGTGCGGAAGCTGCAG
 TGCAAGCTGAGCATAAAGAGCAGTTTGCAGATGCAAGATGAACACCATGTCGCTGAAGCAATTCCTCG
 AATCCCTCGTTGTCCTAACCATTACTGACAGAAATGGGATGGAAACTTACTGTCTGTGAAGCCAGAT
 CAAACTTTGGGATCCCATCTCTCAGGTCAAAAAGTTTACATGGACATCCTAGGAATGTGAAATCCATTC
 AGGGAAAGTTAGACAGATCTGGACATGCCAGTAGTGAAGCAGCTTAGTAATTGTGCTGGAATGACAGC
 AGAAGAAAAAAGGTTAAGAAAGAGAAAGCTTCCACAGAAACTGAATGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

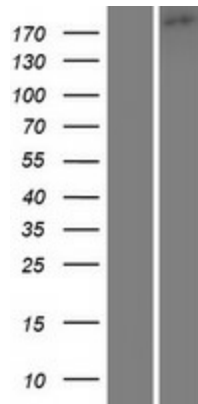
ORF Size:	4809 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional 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:	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:	<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:	NM_002420.6
RefSeq Size:	5428 bp
RefSeq ORF:	4812 bp
Locus ID:	4308
UniProt ID:	Q7Z4N2
Cytogenetics:	15q13.3
Domains:	ion_trans
Protein Families:	Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane
MW:	182 kDa

Gene Summary:

This gene encodes a member of the transient receptor potential melastatin subfamily of transient receptor potential ion channels. The encoded protein is a calcium permeable cation channel that is expressed in melanocytes and may play a role in melanin synthesis. Specific mutations in this gene are the cause autosomal recessive complete congenital stationary night blindness-1C. The expression of this protein is inversely correlated with melanoma aggressiveness and as such it is used as a prognostic marker for melanoma metastasis. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Oct 2011]

Product images:


Circular map for RC213443



Western blot validation of overexpression lysate (Cat# [LY419339]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213443 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).