

Product datasheet for MC223667

Trpa1 (NM_177781) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trpa1 (NM_177781) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Trpa1
Synonyms:	Anktm1; TRPA1b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC223667 representing NM_177781 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGCGCGCTTGAGGAGGATTCTGCTCCCGGAGGAAAGGAAGGAGGTCCAGGGCGTTGTCTATCGCG
CGGTCGGGGAAGACATGGACTGCTCCAAGGAATCCTTTAAGGTGGACATTGAAGGAGATATGTGTAGATT
AGAAGACTTCATCAAGAACCGAAGAAAATAAGCAAATATGAGGATGAAAATCTCTGTCTCTGCATCAC
GCAGCAGCAGAAGGTCAAGTTGAACTGATGGAAGTATCATCAATGGTTCTTCGTGTGAAGTGTGAATA
TAATGGATGGTTATGAAATACCCCACTGCATTGTGCTGCAGAAAAAATCAAGTTGAAAGTGTAAAGTT
TCTTCTCAGCCAAGGAGCAAATCCAACCTCCGAAATAGAAACATGATGTCACCCCTTCACATAGCTGTG
CATGGCATGTACAACGAAGTATCAAGGTGTTGACTGAGCACAAGGCCACTAACATCAATTTAGAAGGAG
AGAATGGGAACACGGCTTTGATGTCCACGTGTGCCAAAGACAACAGTGAAGCTTTGCAAATTTGTGTA
AAAAGGAGCTAAGCTGTGTAATCAAAATAAGTGGGGAGACTACCTGTGCACCAGGCAGCATTTCAGGT
GCCAAAAATGCATGGAATTAATCTTAGCATATGGTGAAGAAGCGCTACAGCAGGGAGACTCACATTA
ATTTTGTGAATCACAAGAAAGCCAGCCCTCTCCACCTAGCAGTTCAAAGCGGAGACTTGGACATGATTA
GATGTGCCTGGACAACGGTGCACACATCGACATGATGGAGAATGCCAAATGCATGGCCCTCCATTTTGT
GCAACCCAGGGAGCCACTGACATCGTTAAGCTCATGATCTCATCTATACCGGAAGTAGTATTTGTGA
ATGCAGTTGATGGCAATCAGGAGACCTGCTTCACAGAGCCTCGTTATTTGATCACCATGACCTGGCAGA
ATACCTAATATCAGTGGGAGCAGACATCAACAGCACTGATTCTGAAGGACGCTCTCCACTTATTTAGCA
ACAGCTTCTGCATCCTGGAACTTGTGAATTTGCTCCTCTGTAAGGTGCCAAAGTAGACATAAAAGATC
ATCTTGGACGTAACCTTTTGCATTTGACTGTGCAGCAGCCTTATGGACTAAGAAATTTGCGGCCTGAGTT
TATGCAGATGCAACACATCAAAGAGCTGGTATGGATGAAGACAATGACGGATGCACACCTCTCCATTAT
GCCTGTAGGCAGGGGTTCTGTCTCTGTAATAACCTCCTTGGCTTCAATGTGTCCATTATAGCAAAA
GTAAGATAAGAAGTCGCCCTGCATTTGAGCCAGTTATGGGCGCATCAATACATGTCAGAGACTTCT
GCAAGACATAAGTGATACGAGGCTTTGATGAAGGGGATCTCCATGGGATGACCCCTCTCCACCTGGCA



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GCAAAAAATGGGCATGATAAAGTCGTTCAACTCCTTCTGAAGAAAGGGCCTTATTTCTCAGTGACCACA
 ATGGCTGGACTGCTTTGCATCACGCCTCCATGGGTGGGTACACTCAGACCATGAAGGTCATTCTTGATAC
 TAACCTGAAATGCACAGACCGACTAGATGAAGAAGGGAACACAGCACTCCACTTTGCAGCACGGGAAGGC
 CATGCCAAGGCTGTTGCAATGCTTTTGAGCTACAATGCTGACATCCTCCTGAACAAGAAGCAAGCTTCT
 TTCTGCATATTGCCCTGCACAATAAGCGCAAGGAAGTGGTTCTCACACCATCAGAAATAAAGATGGGA
 TGAGTGTCTTCAAGTTTTCACTCATAATTCTCCAAGCAATCGATGTCCAATCATGGAGATGGTAGAATAC
 CTCCCCGAGTGCATGAAAGTTCTTTAGATTTCTGCATGATACCTCCACAGAAGACAAGTCTGTCAAG
 ACTACCATATTGAGTATAATTTCAAGTATCTCCAATGCCATTATCCATGACCAAAAAAGTAGCACCTAC
 CCAGGATGGGTATATGAGCCTCTTACAATCCTCAATGTCATGGTCCAACATAAACCAGCATAGAACTCCTC
 AACCCCTGTGTAGGGAGTACTTACTCATGAAATGGTGTGCCTATGGATTGAGGCCATATGATGA
 ACCTAGGATCTTATTGCTTGGTCTCATACCCATGACCCTTCTTGTGTCAAAATACAGCCTGGAATGGC
 CTTCAATTCTACTGGAATAATCAATGGAAGTACTGACTCATGAGGAAAGAATAGACACTCTGAATTCA
 TTTCCAATAAAAAATGTATGATTCTAGTTTTTTATCAAGTATATTTGGATATTGCAAAGAAGTGATCC
 AAATTTTCCAACAGAAAAGGAATTACTTCTGGATTACAACAATGCTCTGGAATGGGTTATCTATAACA
 TAGTATCATCTTGTGTTGCCCTTGTCTCAACATCCCAGCGTATATGCAGTGGCAATGTGGAGCAATA
 GCGATATTCTTCTACTGGATGAACTTCTACTGTATCTTCAAAGTTTGAGAACTGTGGAATTTTCATTG
 TTATGTTGGAGGTGATTTTTAAACATTGCTGAGATCGACCGGAGTGTATCTTCTCCTACTGGCTTT
 TGGCCTCAGCTTTTATGTTCTCCTGAATTTCCAAGATGCCTTCAGCACCCATTGCTTTCCTTAATCCAG
 ACATTCAGTATGATGCTAGGAGACATCAATTATCGAGATGCCTTCTAGAACCATTTGTTAGAAATGAGT
 TGGCATACCCAGTCTGACCTTTGGGCAGCTTATTGCCTTCACAATGTTTGTCCCAATTGTTCTCATGAA
 CTTACTGATTGGCTTGGCGGTTGGGGACATTGCTGAGGTCCAGAAGCATGCGTCATTGAAGAGGATTGCT
 ATGCAGGTGGAACCTCATACCAACTAGAAAAAAGCTGCCACTCTGGTACTTACGCAAAGTGGATCAGA
 GGTCCACCATCGTGTATCCAAATAGACCCAGGCAGGATGCTACGGTTTTTTTACTTTCTTTAA
 TATGCAAGAAACACGACAAGAAGTACCAACATTGACACATGCTTGGAAATGGAATATTGAAACAGAAA
 TATCGGCTGAAGGACCTCACTTCCCTTGGAAAAGCAGCATGAGCTCATCAAACATCATCCAGAAGA
 TGGAGATCATCTCAGAGACAGAAGATGAAGATAACCATTGCTCTTCCAAGACAGGTTCAAGAAGGAGAG
 GCTGGAACAGATGCACAGCAAGTGGAAATTTGTCTTAAACGCAGTTAAGACTAAAACACATTGTTCTATT
 AGCCACCCGGACTTTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_177781

Insert Size: 3378 bp

OTI Disclaimer: 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.

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](#)

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:	<u>NM_177781.4</u> , <u>NP_808449.1</u>
RefSeq Size:	4263 bp
RefSeq ORF:	3378 bp
Locus ID:	277328
UniProt ID:	<u>Q8BLA8</u>
Cytogenetics:	1 A3
Gene Summary:	<p>Receptor-activated non-selective cation channel involved in detection of pain and possibly also in cold perception and inner ear function. Has a central role in the pain response to endogenous inflammatory mediators and to a diverse array of volatile irritants, such as mustard oil, cinnamaldehyde, garlic and acrolein, an irritant from tears gas and vehicle exhaust fumes. Acts also as an ionotropic cannabinoid receptor by being activated by delta(9)-tetrahydrocannabinol (THC), the psychoactive component of marijuana. Is also activated by menthol (in vitro) (By similarity). May be a component for the mechanosensitive transduction channel of hair cells in inner ear, thereby participating in the perception of sounds. Probably operated by a phosphatidylinositol second messenger system.</p> <p>[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>