

Product datasheet for SC124051

TRPM6 (NM_017662) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: TRPM6 (NM_017662) Human Untagged Clone
Tag: Tag Free
Symbol: TRPM6
Synonyms: CHAK2; HMGX; HOMG; HOMG1; HSH
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_017662 edited
 CTCAGACAGGGCTTTGGGAGCAGGGCCTGCAAATCAAAGATGAAAGAACAACCTGTCTTG
 GAGCGCTTGCACTCCAGAAAATCCTGGATTAAGGAGTATTTGACAAGAGAGAATGTAGC
 ACAATCATACCCAGCTCAAAAAATCCTCACAGATGTAAGTCCAGTATGCCAAGTCTGCCAG
 AATTTAATCAGGTGTTACTGTGGCCGACTGATTGGAGACCATGCTGGGATAGATTATTC
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 ACGAAAAGCCCAACAGATACTTTTGGCAGGATTAATTTCCAAGATGGAGAGCACACCCAT
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 GAGACAACAGGAGCGTGGATAATAACTGAAGGCATCAATACAGGAGTGTCCAAGCATGTT
 GGGGATGCCTTGAAATCCCATTCCTCTCATTCTTGAGAAAAATCTGGACAGTTGGAATC
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TCAAGGAAGAAGTCAAAGAACAAAATGTATCAGATGACCCTGAGTCTACTGGCTTCTT
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TTCTTCTGGCAGCATGGAGAGGAGGCCACGGTTAAAGCCGTGATTGCGTGTATCCTCTAC
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 CTCAAGTCCACACGAAGATGCTTGGATGAGTCAGCTGGGAATATTGTTCTTGTGTACCT
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 TTGGGGGGGATACATTTATTTTCTCACTATGTATGCAGACTGGACCCCTACTAC
 TATTTGTACCTACCCACAGATTGTATTTATGTCTATATATATGTTTCAAAAAAGTTAT
 GTGATTTCAAAAAAAAAAAAAAAAAAAAA

**5' Read Nucleotide
 Sequence:**

>OriGene 5' read for NM_017662 unedited
 NNGGGTTTTTACCCGCCGTTGTGCGAAATGGGCGGTTAGGCGTGTACGGTGGGCGGTC
 TATATAAGCAGAGCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGG
 CGGCCCGGAATTCGGCACCACTCAGACAGGGCTTTGGGAGCAGGCCTGCAAATCAAAG
 ATGAAAGAACAACCTGTCTTGGAGCGCTTGCAGTCCCAGAAATCCTGGATTAAAGGAGTA
 TTTGACAAGAGAGAATGTAGCACAATCATACCCAGCTCAAAAAATCCTCACAGATGTACT
 CCAGTATGCCAAGTCTGCCAGAATTTAATCAGGTGTTACTGTGGCCGACTGATTGGAGAC
 CATGCTGGGATAGATTATCCTGGACCATCTCAGCTGCCAAGGGTAAAGAAAGTGAACAA
 TGGTCTGTTGAAAAGCACACAACGAAAAGCCCAACAGATACTTTTGGCACGATTAATTTT
 CAAGATGGAGAGCACACCCATCATGCCAAGTATATTAGAATTTCTATGATACAAAACCTG
 GATCATCTGTTACATTTAATGTTGAAAGAGTGGAAAATGGAACCTGCCAAGCTTGTGATC
 TCAGTCCATGGGGCATCCAGAATTTACTATGCCTCTAAATTTAAAGAGATTTTCAGC
 CAAGGTTTGGTTAAAGCTGCAGAGACAACAGGAGCGTGGATAATAACTGAAGGCATCAAT
 ACAGGAGTGTCCAAGCATGTTGGGGATGCCTTGAATCCCATTCTCTATTCTTGGAGA
 AAAATCTGGACAGTTGGAATCCCTCCTTGGGGTGTATTGAGAACCAGAGAGACCTTATT
 GNGAAAGATGTGGTGTGCTGTACCAGACTCTGGATACCCNCTCAGCAGCTCACAC

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_017662 unedited AAGGCACTNAGGAGGGGTACAGGGATGCCACCCGGGATCTGTTTCAGGAAACAGCTATGA CCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTGGGTTTTTTGAAATCACATAACTTT TTATGAACATATATAGACATAAATACAATCTGTGGGTGAGGTGACAAATAGTAGTAGG GGGTCCAGTCTGCATACATAGTGAGAAAATAAAATAAATGTATCCCCCAACCCCATCC TTAATGTGCAGGATTCTGCTCCAAAGTTCCAAGTGACCAGCTAAAGCAATGAGGTACAC AAGAACAATATTTCCAGCTGACTCATCCAAGCATCTTCGTGTGGAACCTTGAGGATGGAGC TGCAAAGTGCCCTGGACAGAGGTGAGTGTCTAGGAGAACCATTGATCATATACCAATGA GGCCTTTGAACAGAAGGAGATGTGAGGCTCAGAAGGCGTGTCCCAAGGAGACGCTGATGT AATCAACATCACGTTGATCAATCTATGTTATCACAGAGTTTCTGGCAGGCAGGGCAAAG CACTGGGATCTTCTGCTCCTCCCTTTTATAGTTGCATATCATCTTCTGGGGAATTTCT ACCCGCTCCCTGCTGGAGGCTCCTCAGCTGAATCTATTTTTATCTCAAGTCCAAGGTG AATTTATNCTTNCAGGGAATAGTCATTTCTTTTAATTCCGGATTAACCTCCGGCACAC GAATACAATGAGTTTGCAAAGATTTCTATT
Restriction Sites:	NotI-NotI
ACCN:	NM_017662
Insert Size:	7000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_017662.3 , NP_060132.3
RefSeq Size:	8429 bp
RefSeq ORF:	6069 bp
Locus ID:	140803
UniProt ID:	Q9BX84
Cytogenetics:	9q21.13
Protein Families:	Druggable Genome, Ion Channels: Transient receptor potential, Protein Kinase, Transmembrane

Gene Summary:

This gene is predominantly expressed in the kidney and colon, and encodes a protein containing an ion channel domain and a protein kinase domain. It is crucial for magnesium homeostasis, and plays an essential role in epithelial magnesium transport and in the active magnesium absorption in the gut and kidney. Mutations in this gene are associated with hypomagnesemia with secondary hypocalcemia. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Apr 2010]
Transcript Variant: This variant (a) encodes the longest isoform (a).