

Product datasheet for **SC329377**

TRPM6 (NM_001177310) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRPM6 (NM_001177310) Human Untagged Clone
Tag:	Tag Free
Symbol:	TRPM6
Synonyms:	CHAK2; HMGX; HOMG; HOMG1; HSH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC329377 representing NM_001177310. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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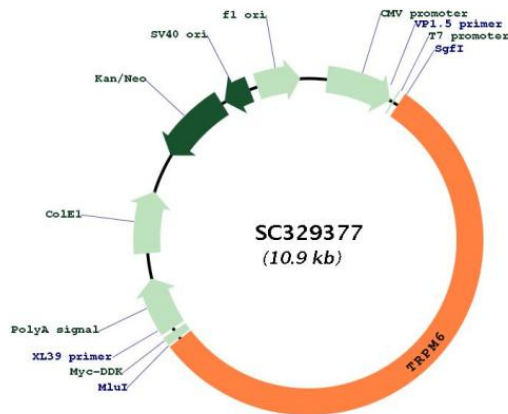
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Restriction Sites:

SgfI-MluI

Plasmid Map:



ACCN: NM_001177310

Insert Size: 6054 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001177310.1](#)

RefSeq Size: 8250 bp

RefSeq ORF: 6054 bp

Locus ID: 140803

UniProt ID: [Q9BX84](#)

Cytogenetics: 9q21.13

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

MW: 231 kDa

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 (b) contains an alternate 5' terminal exon compared to variant a. This results in a shorter isoform (b) with a distinct N-terminus compared to isoform a.