

Product datasheet for **SC326275**

TRPC4 (NM_001135955) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRPC4 (NM_001135955) Human Untagged Clone
Tag:	Tag Free
Symbol:	TRPC4
Synonyms:	HTRP-4; HTRP4; TRP4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_001135955 edited
 TGCTCCAAAACACTCAGCAGCGACTAAGGGAATTCATTGGAATTTGCCGGCGTGCTCTCA
 CCCCACACGGCACCCGCGCCGTCACTCCTCGGATCCCATCACTTCAGCCCGAAGATTGCA
 ACTTTGCAGAGACGAAGAAATAGCATGGCATGAAACATGGCTCAGTTCTATTACAAAAGA
 AATGTTAATGCTCCCTATAGAGACCGCATCCCTCTAAGGATAGTAAGAGCAGAATCAGAA
 CTCTCGCCATCAGAAAAAGCCTACTTGAATGCTGTGAAAAAGGGAGATTATGCCAGTGTC
 AAGAAATCCCTAGAGGAAGCTGAAATTTATTTTAAAATCAATATTAATTGCATTGATCCT
 CTGCGAAGAAGCTCTCCTCATTGCAATTGAAAATGAGAAGCTTGAGCTCATCGAACTA
 CTCTTAAGCTTTAATGTCTATGTTGGAGATGCTCTATTACATGCTATCAGAAAAGAAAGTC
 GTCGGAGCTGTTGAGCTGTTATTGAACCACAAAAACCTAGTGGAGAAAAACAGGTGCCT
 CCTATACTCCTTGATAAGCAGTTCTCTGAATCACTCCAGACATTACACCAATCATTTTTG
 GCAGCCCATACAAATAATTATGAGATAATAAACTCTTGGTTCAGAAAGGAGTCTCAGTG
 CCTCGACCCACGAGGTCGCTGTAAGTGTGTGGAATGCGTGTCCAGTTCAGATGTGGAC
 AGCCTCCGTCCTCACGCTCCAGACTCAACATCTACAAGGCTTGCCAGTCCCTCTCTC
 ATTGCACTGTCAAGCGAAGATCCTTTTCTCACAGCCTTTAGTTAAGTTGGAACTTCAG
 GAACTGAGCAAGGTGAAAATGAATCAAGTCGGAGATGAAGAGCTGTACGGCAGTGC
 AAACAATTTGCTAAGGACCTACTGGATCAGACGAGAAGTTCAGAGAAGCTGGAAATCATT
 CTTAATTACCGAGATGACAATAGTCTCATAGAAGAAACAAAGTGGAAATGATCTTGCAAGA
 CTAAAATTGGCCATTAAGTACCGTCAAAAAGAGTTTGTGGCCAGCCCAATTGTCAACAG
 CTGCTGGCATCTCGTGGTACGATGAGTTTCCAGGCTGGAGGAGAAGACACTGGGCGAGTG
 AAGATGGTGACATGTTTCATAATAGGACTTCTTTTCTGTCTTCTGTGTGCTACCTG
 ATAGTCCCAAAAGCCCACTTGGACTGTTTCATCAGGAAGCCATTTATCAAGTTTATCTGC
 CACACAGCCTCCTATTTGACTTTTTTGTCTGCTGCTTGCCTCTCAGCACATCGAC
 AGGTGAGACTTGAACAGGCAAGGTCCACCACCAACCATCGTCGAGTGGATGATATTACCG
 TGGGCTCTGGGCTTCATATGGGGAGAAATTAACAGATGTGGGATGGCGGACTTCAGGAC
 TACATCCATGATTGGTGGAACTAATGGACTTTGTAATGAACTCCTTATATTTAGCAACA
 ATCTCCTTGAAAATTGTTGCATTTGTAAGTACAGTGCCTTAATCCACGAGAATCATGG
 GACATGTGGCATCCCACTCTGGTGGCAGAGGCTTTATTTGCTATTGCAAACATCTTCAGT
 TCTCTGCGTCTGATCTCACTGTTTACTGCAAATCTCACCTGGGACCTCTGCAAATATCT
 CTGGGAAGAATGCTCCTGGACATTTTGAAGTTTCTATTATATACTGCCTGTGTGTTGCTA
 GCATTTGCAAATGGCCTAAATCAATTGACTTCTATTATGAAGAAACGAAAGGGTTAAC
 TGCAAAGGCATAAGATGTGAAAAGCAGAATAATGCATTTTCAACGTTATTTGAGACTG
 CAGTCCCTGTTTTGGTCAATATTTGGGCTCATCAATTTATATGTGACCAATGTCAAAGCA
 CAGCATGAATTTACTGAGTTTGGTGGCCACCATGTTTGGGACATACAATGTCATCTCT
 CTGGTTGTTCTACTCAACATGTTAATAGCTATGATGAATAATTCTTACCAACTGATTGCT
 GACCATGCAGATATAGAATGGAATTTGCACGAACAAAGCTTTGGATGAGTTATTTTGAA
 GAAGGAGGTACTCTGCCTACTCCCTTCAATGTCATCCCGAGCCCCAAGTCTCTCTGGTAC
 CTGATCAAATGGATCTGGACACACTTGTGCAAGAAAAAGATGAGAAGAAAGCCAGAAAGT
 TTTGGAACAATAGGGAGGCGAGCTGCTGATAACTTGAGAAGACATCACCAATACCAAGAA
 GTTATGAGGAACCTGGTGAAGCGATACGTTGCTGCAATGATTAGAGATGCTAAAACCTGAA
 GAAGGCCTGACCGAAGAGAACTTTAAGGAACTAAAGCAAGACATTTCTAGTTTCCGCTTT
 GAAGTCTCTGGATTACTAAGAGGAAGCAAACCTTTCCACAATACAATCTGCGAATGCCTCG
 AAGGAGTCTTCAAATTCGGCAGACTCAGATGAAAAGAGTGATAGCGAAGAAGAAGTTGCT
 CGTCAACAGGCTGCAGGACCACTTGAGAGAAATTTCAACTGGAATCTCGAGGATTAGCT
 TCACGGGGTGACCTGAGCATTCCCGGTCTCAGTGAACAATGTGTGTTAGTAGACCATAGA
 GAAAGGAATACGGACACACTGGGGTTACAGGTAGGAAAGAGAGTGTGTCCATTCAAGTCA
 GAGAAGGTGGTGGAGGACACGGTTCCTATAATACCAAGGAGAAACATGCAAAAGAA
 GAGGACTCTAGTATAGACTATGATCTAAACCTCCAGACACAGTACCCACGAAGATTAC
 GTGACCACAAGATTGTGATACTTGAAGGAGGAAGCGTTTACCATACACATACGTATTTTC
 CGTAGTGTCTGGGTGGG

Restriction Sites:

Please inquire

ACCN:	NM_001135955
Insert Size:	2900 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:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_001135955.1.
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_001135955.1, NP_001129427.1</u>
RefSeq Size:	3282 bp
RefSeq ORF:	2682 bp
Locus ID:	7223
UniProt ID:	<u>Q9UBN4</u>
Cytogenetics:	13q13.3
Protein Families:	Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane

Gene Summary:

This gene encodes a member of the canonical subfamily of transient receptor potential cation channels. The encoded protein forms a non-selective calcium-permeable cation channel that is activated by Gq-coupled receptors and tyrosine kinases, and plays a role in multiple processes including endothelial permeability, vasodilation, neurotransmitter release and cell proliferation. Single nucleotide polymorphisms in this gene may be associated with generalized epilepsy with photosensitivity. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Aug 2011]

Transcript Variant: This variant (2, also known as beta) lacks an in-frame segment in the 3' coding region, compared to variant 1 (alpha). The encoded isoform (beta) is shorter, compared to isoform alpha. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.