

Product datasheet for **SC124028**

TRPA1 (NM_007332) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: TRPA1 (NM_007332) Human Untagged Clone
Tag: Tag Free
Symbol: TRPA1
Synonyms: ANKTM1; FEPS; FEPS1
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_007332 edited
 ATGAAGCGCAGCCTGAGGAAGATGTGGCGCCCTGGAGAAAAGAAGGACCCAGGGCGTT
 GTCTATGAGGATGTGCCGACGACACGGAGGATTTCAAGGAATCGCTTAAGGTGGTTTTT
 GAAGGAAGTGCATATGGATTACAAAACCTTAATAAGCAAAAAGAAATTTAAAAGATGTGAC
 GATATGGACACCTTCTTCTGCATTATGCTGCAGCAGAAGGCCAAATTGAGCTAATGGAG
 AAGATCACCAGAGATTCTCTTTGGAAGTGTGCATGAAATGGATGATTATGAAAATACC
 CCTCTGCATTGTGCTGTAGAAAAAACCAATTGAAAGCGTTAAGTTTCTCTCAGCAGA
 GGAGCAAACCCAAACCTCCGAAACTTCAACATGATGGCTCCTCTCCACATAGCTGTGCAG
 GGCATGAATAATGAGGTGATGAAGGTCTTGCTTGAGCATAGAACTATTGATGTTAATTTG
 GAAGGAGAAAAATGAAACACAGCTGTGATCATTGCGTGCACCACAATAATAGCGAAGCA
 TTGCAGATTTTGTCTAACAAAGGAGCTAAGCCATGTAATCAAATAAATGGGGATGTTTC
 CCTATTACCAAGCTGCATTTTCAGGTTCCAAAGAATGCATGGAATAATACTAAGGTTT
 GGTGAAGAGCATGGGTACAGTAGACAGTTGCACATTAACTTTATGAATAATGGGAAAGCC
 ACCCCTCTCCACCTGGCTGTGCAAAATGGTGACTTGGAATGATCAAAATGTGCCTGGAC
 AATGGTGACAAAATAGACCCAGTGGAGAAGGGAAGGTGCACAGCCATTCTTTTGTGCTCC
 ACCCAGGGAGCCACTGAGATTGTTAAACTGATGATATCGTCCTATTCTGGTAGCGTGGAT
 ATTGTTAACACAACCGATGGATGCATGAGACCATGCTTCACAGAGCTTCATTGTTTGAT
 CACCATGAGCTAGCAGACTATTTAATTTTCAGTGGGAGCAGATATTAATAAGATCGATTCT
 GAAGGACGCTCTCCACTTATATTAGCAACTGCTTCTGCATCTTGGAAATTTGTAATTTG
 CTACTCTCTAAAAGTGCCCAAGTAGACATAAAAGATAATTTTGGACGTAATTTTCTGCAT
 TTAAGTGTACAGCAACCTTATGGATTAATAAATCTGCGACCTGAATTTATGCAGATGCAA
 CAGATCAAAGAGCTGGTAATGGATGAAGACAACGATGGGTGTAAGTCTCTACATTATGCA
 TGTAGACAGGGGGCCCTGGTTCTGTAATAACCTACTTGGCTTTAATGTGTCCATTTCAT
 TCCAAAAGCAAAGATAAGAAATCACCTCTGCATTTTGCAGCCAGTTATGGGCGTATCAAT
 ACCTGTACAGAGGCTCCTACAAGACATAAGTGATACGAGGCTTCTGAATGAAGGTGACCTT
 CATGGAATGACTCCTCTCCATCTGGCAGCAAAGAATGGACATGATAAAGTAGTTCAGCTT
 CTCTGAAAAAAGGTGCATTGTTTCTCAGTGACCACAATGGCTGGACAGCTTTGCATCAT



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GCGTCCATGGGCGGTACACTCAGACCATGAAGGTCATTCTTGATACTAATTTGAAGTGC
 ACAGATCGCTTGGATGAAGACGGGAACACTGCACTTCACTTTGCTGCAAGGAAGGCCAT
 GCCAAAGCCGTTGCGCTTCTTCTGAGCCACAATGCTGACATAGTCCTGAACAAGCAGCAG
 GCCTCCTTTTTGCACCTTGCACCTCACAATAAGAGGAAGGAGGTTGTTCTTACGATCATC
 AGGAGCAAAGATGGGATGAATGTCTTAAGATTTTCAGTCATAATTCTCCAGGCAATAAA
 TGTCCAATTACAGAAATGATAGAATACCTCCCTGAATGCATGAAGTACTTTTAGATTTTC
 TGCATGTTGCATTCCACAGAAGACAAGTCTGCCGAGACTATTATATCGAGTATAATTTTC
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 ATACTAGATACCACGAATTCATATCTAATAAAAACTTGTATGATTTTAGTGTTTTATCA
 AGTATATTTGGTATTGCAAAGAAGCGGGCAAATTTTCCAACAGAAAAGGAATTTTTT
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 TTCTATTGGATGAATTTCTTATTGTATCTTCAAAGATTTGAAAATTTGGAAATTTTTATT
 GTTATGTTGGAGGTAATTTTGAACCTTTGTTGAGGTCTACAGTTGTATTATCTTCTT
 CTTCTGGCTTTTGGACTCAGCTTTTACATCCTCCTGAATTTACAGGATCCCTTCAGCTCT
 CCATTGCTTTCTATAATCCAGACCTTCCAGCATGATGCTAGGAGATATCAATTATCGAGAG
 TCCTTCTAGAACCATATCTGAGAAATGAATTGGCACATCCAGTTCTGTCTTTGCACAA
 CTTGTTTCTTCAACAATTTTGTCCCAATTGTCCTCATGAATTTACTTATTGGTTTGGCA
 GTTGGCGACATTGCTGAGGTCCAGAAACATGCATCATTGAAGAGGATAGCTATGCAGGTG
 GAACCTTACACCAGCTTAGAGAAGAAGCTGCCACTTTGGTTTCTACGCAAAGTGGATCAG
 AAATCCACCATCGTGTATCCCAACAAACCCAGATCTGGTGGGATGTTATTCCATATATTC
 TGTTTTTTATTTTGCACCTGGGAAATAAGACAAGAAATACCAAATGCTGATAAATCTTTA
 GAAATGGAAATATTAAGCAGAAATACCGGCTGAAGGATCTTACTTTTCTCTGGAAAAA
 CAGCATGAGCTCATTAACTGATCATTCCAGAAGATGGAGATCATCTGTGAGACAGAGGAT
 GATGATAGCCATTGTTCTTTTCAAGACAGGTTTAAAGAAAGCAGATGGAACAAAGGAAT
 AGCAGATGGAATACTGTGTTGAGAGCAGTCAAGGCAAAAAACACCATCTTGAGCCTTAG

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_007332 unedited
 NNNGGGGGTTTCGACAATATTTGTNAATACGNATTCACTATAGGGCCGGCCGCGNAATTC
 GCACGAGGAAGGTGCCCGCGCGTGGTGGAGCAGCTGCACCAGGTGGCGTCCGGGGTGGG
 GTCAATGAAGCGCAGCCTGAGGAAGATGTGGCGCCCTGGAGAAAAGAAGGAGCCCCAGGG
 CGTTGTCTATGAGGATGTGCCGGACGACACGGAGGATTTCAAGGAATCGTTAAGGTGGT
 TTTTGAAGGAAGTGCATATGGATTACAAAATTTAATAAGCAAAGAAATTAAGGATG
 TGACGATATGGACACCTTCTTCTTGCATTATGCTGCAGCAGAAGGCCAAATTTAGCTAAT
 GGAGAAGATCACCAGAGATTCCTCTTTGGAAGTGTGCATGAAATGGATGATTATGGAAA
 TACCCCTCTGCATTGTGCTGTAGAAAAAACCAATTGAAAGCGTTAAGTTTCTTCTCAG
 CAGAGGAGCAAACCCAAACCTCCGAAACTTCAACATGATGGCTCCTCTCCACATAGCTGT
 GCAGGGCATGATATAATGAGGTGATGAAGTCTTGCTTGGAGCATAGAATTTGATGTTA
 ATTTGGAAGGAGAAAAATGGAAACACAGCTGTGATCATTGCGTGCACCACANATAATAGCG
 AAGCATTGCAGATTTTGTAAACANAGGAGCTAAGCCATGTAATCAAATAAATGGGGAT
 TGTTTCCCTATTCACCAAGCTGCATTTTCAGGTTCAAAGAATGCATGGAATAATACTAA
 GGTGTTGGTGAAGAGCATGGGTTTCAAGTATACAGTTGCACATTAACCTTTATGAATAATGGGA
 AAGCCACCCTTTCCACTGGCAGTGCCAAATGTGGACTTGGGA

3' Read Nucleotide Sequence:	>Forward primer walk for NM_007332 unedited GAAACATGCATCATTGAAGAGGATAGCTATGCAGGTGGAACCTTCATACCAGCTTAGAGAA GAAGCTGCCACTTTGGTTTCTACGCAAAGTGGATCAGAAATCCACCATCGTGTATCCCAA CAAACCCAGATCTGGTGGGATGTTATCCATATATTCTGTTTTTATTTTGCAGCTGGGGA AATAAGACAAGAAATACCAATGCTGATAAATCTTTAGAAATGGAATATTAAGCAGAA ATACCGGCTGAAGGATCTTACTTTTCTCCTGGAAAAACAGCATGAGCTCATTAACTGAT CATTTCAGAAGATGGAGATCATCTCTGAGACAGAGGATGATGATAGCCATTGTTCTTTCA AGACAGGTTTAAGAAAGAGCAGATGGAACAAAGGAATAGCAGATGGAATACTGTGTGAG AGCAGTCAAGGCAAAAACACACCATCTTGAGCCTTAGCTCCTCAGACCTTCAGTGAGGCT TCTAATGGGGGGTGCATGACTTGCTGGTTCTAACTTTCAATTTAAAAAGAGTGAGGAAGA AGCAGAATGATTCATTTTCTGCGTGTGAAATCATGGTTCCTGCATGCTGTATAAAAGTA AACCATCTTTTCTCTATTTCATTTTCTACCAATCACTATGTATTGGGGATATCTTT GCAGATATGTTCAAATTGGACTGGACTTTGATGAGATATAATCTCATTATTTGAATGGGT AGAAAATGAATTTTGCTAGACACN
Restriction Sites:	NotI-NotI
ACCN:	NM_007332
Insert Size:	4000 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
OTI Annotation:	The ORF of this clone has been fully sequenced and found to contain 1 SNPs compared with NM_007332.
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq:	<u>NM_007332.1, NP_015628.1</u>
RefSeq Size:	5190 bp
RefSeq ORF:	5190 bp
Locus ID:	8989
UniProt ID:	<u>O75762</u>
Cytogenetics:	8q21.11
Protein Families:	Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane
Gene Summary:	The structure of the protein encoded by this gene is highly related to both the protein ankyrin and transmembrane proteins. The specific function of this protein has not yet been determined; however, studies indicate the function may involve a role in signal transduction and growth control. [provided by RefSeq, Jul 2008]