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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:

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>OriGene ORF sequence for NM_007332 edited
ATGAAGCGCAGCCTGAGGAAGATGTGGCGCCCTGGAGAAAAGAAGGAGCCCCAGGGCGTT
GTCTATGAGGATGTGCCGGACGACACGGAGGATTTCAAGGAATCGCTTAAGGTGGTTTTT
GAAGGAAGTGCATATGGATTACAAAACTTTAATAAGCAAAAGAAATTAAAAAGATGTGAC
GATATGGACACCTTCTTCTTGCATTATGCTGCAGCAGAAGGCCAAATTGAGCTAATGGAG
AAGATCACCAGAGATTCCTCTTTGGAAGTGCTGCATGAAATGGATGATTATGGAAATACC
CCTCTGCATTGTGCTGTAGAAAAAAACCAAATTGAAAGCGTTAAGTTTCTTCTCAGCAGA
GGAGCAAACCCAAACCTCCGAAACTTCAACATGATGGCTCCTCTCCACATAGCTGTGCAG
GGCATGAATAATGAGGTGATGAAGGTCTTGCTTGAGCATAGAACTATTGATGTTAATTTG
GAAGGAGAAAATGGAAACACAGCTGTGATCATTGCGTGCACCACAAATAATAGCGAAGCA
TTGCAGATTTTGCTTAACAAAGGAGCTAAGCCATGTAAATCAAATAAATGGGGATGTTTC
CCTATTCACCAAGCTGCATTTTCAGGTTCCAAAGAATGCATGGAAATAATACTAAGGTTT
GGTGAAGAGCATGGGTACAGTAGACAGTTGCACATTAACTTTATGAATAATGGGAAAGCC
ACCCCTCTCCACCTGGCTGTGCAAAATGGTGACTTGGAAATGATCAAAATGTGCCTGGAC
AATGGTGCACAAATAGACCCAGTGGAGAAGGGAAGGTGCACAGCCATTCATTTTGCTGCC
ACCCAGGGAGCCACTGAGATTGTTAAACTGATGATATCGTCCTATTCTGGTAGCGTGGAT
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CACCATGAGCTAGCAGACTATTTAATTTCAGTGGGAGCAGATATTAATAAGATCGATTCT
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CTACTCTCTAAAGGTGCCCAAGTAGACATAAAAGATAATTTTGGACGTAATTTTCTGCAT
TTAACTGTACAGCAACCTTATGGATTAAAAAATCTGCGACCTGAATTTATGCAGATGCAA
CAGATCAAAGAGCTGGTAATGGATGAAGACAACGATGGGTGTACTCCTCTACATTATGCA
TGTAGACAGGGGGGCCCTGGTTCTGTAAATAACCTACTTGGCTTTAATGTGTCCATTCAT
TCCAAAAGCAAAGATAAGAAATCACCTCTGCATTTTGCAGCCAGTTATGGGCGTATCAAT
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CATGGAATGACTCCTCTCCATCTGGCAGCAAAGAATGGACATGATAAAGTAGTTCAGCTT
CTTCTGAAAAAAGGTGCATTGTTTCTCAGTGACCACAATGGCTGGACAGCTTTGCATCAT
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GCGTCCATGGGCGGGTACACTCAGACCATGAAGGTCATTCTTGATACTAATTTGAAGTGC
ACAGATCGCTTGGATGAAGACGGGAACACTGCACTTCACTTTGCTGCAAGGGAAGGCCAT
GCCAAAGCCGTTGCGCTTCTTCTGAGCCACAATGCTGACATAGTCCTGAACAAGCAGCAG
GCCTCCTTTTTGCACCTTGCACTTCACAATAAGAGGAAGGAGGTTGTTCTTACGATCATC
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CAGCATGAGCTCATTAAACTGATCATTCAGAAGATGGAGATCATCTCTGAGACAGAGGAT
GATGATAGCCATTGTTCTTTTCAAGACAGGTTTAAGAAAGAGCAGATGGAACAAAGGAAT
AGCAGATGGAATACTGTGTTGAGAGCAGTCAAGGCAAAAACACACCATCTTGAGCCTTAG

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_007332 unedited
NNNGGGGGGTTCGACAATATTTGTNAATACGNATTCACTATAGGGCCGGCCGCGNAATTC
GCACGAGGAAGGTGCCCGCGCGCGTGGTGAGCAGCTGCACCAGGTGGCGTCCGGGGTGGG
GTCAATGAAGCGCAGCCTGAGGAAGATGTGGCGCCCTGGAGAAAAGAAGGAGCCCCAGGG
CGTTGTCTATGAGGATGTGCCGGACGACACGGAGGATTTCAAGGAATCGCTTAAGGTGGT
TTTTGAAGGAAGTGCATATGGATTACAAAACTTTAATAAGCAAAAGAAATTAAAAAGATG
TGACGATATGGACACCTTCTTCTTGCATTATGCTGCAGCAGAAGGCCAAATTGAGCTAAT
GGAGAAGATCACCAGAGATTCCTCTTTGGAAGTGCTGCATGAAATGGATGATTATGGAAA
TACCCCTCTGCATTGTGCTGTAGAAAAAAACCAAATTGAAAGCGTTAAGTTTCTTCTCAG
CAGAGGAGCAAACCCAAACCTCCGAAACTTCAACATGATGGCTCCTCTCCACATAGCTGT
GCAGGGCATGATATAATGAGGTGATGAAGGTCTTGCTTGAGCATAGAACTATTGATGTTA
ATTTGGAAGGAGAAAATGGAAACACAGCTGTGATCATTGCGTGCACCACANATAATAGCG
AAGCATTGCAGATTTTGCTTAACANAGGAGCTAAGCCATGTAAATCAAATAAATGGGGAT
TGTTTCCCTATTCACCAAGCTGCATTTTCAGGTTCAAAGAATGCATGGAAATAATACTAA
GGTTTGGTGAAGAGCATGGGTTCAGTATACAGTTGCACATTAACTTTATGAATAATGGGA
AAGCCACCCCTTTCCACTGGCAGTGCCAAATGTGGACTTGGA

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3' Read Nucleotide Sequence:

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>Forward primer walk for NM_007332 unedited
GAAACATGCATCATTGAAGAGGATAGCTATGCAGGTGGAACTTCATACCAGCTTAGAGAA
GAAGCTGCCACTTTGGTTTCTACGCAAAGTGGATCAGAAATCCACCATCGTGTATCCCAA
CAAACCCAGATCTGGTGGGATGTTATTCCATATATTCTGTTTTTTATTTTGCACTGGGGA
AATAAGACAAGAAATACCAAATGCTGATAAATCTTTAGAAATGGAAATATTAAAGCAGAA
ATACCGGCTGAAGGATCTTACTTTTCTCCTGGAAAAACAGCATGAGCTCATTAAACTGAT
CATTCAGAAGATGGAGATCATCTCTGAGACAGAGGATGATGATAGCCATTGTTCTTTTCA
AGACAGGTTTAAGAAAGAGCAGATGGAACAAAGGAATAGCAGATGGAATACTGTGTTGAG
AGCAGTCAAGGCAAAAACACACCATCTTGAGCCTTAGCTCCTCAGACCTTCAGTGAGGCT
TCTAATGGGGGGTGCATGACTTGCTGGTTCTAACTTTCAATTTAAAAAGAGTGAGGAAGA
AGCAGAATGATTCATTTTGCTGCGTGTGAAATCATGGTTCCTGCATGCTGTATAAAAGTA
AACCATCTTTTATCCTCTATTCATATTTTCTACCAATCACTATGTATTGGGGATATCTTT
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:
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_007332.1, NP_015628.1

RefSeq Size: 5190 bp

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RefSeq ORF:	5190 bp
Locus ID:	8989
UniProt ID:	O75762
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]

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