

## Product datasheet for **RG219290**

### TRPA1 (NM\_007332) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TRPA1 (NM_007332) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TRPA1
Synonyms:	ANKTM1; FEPS; FEPS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219290 representing NM_007332 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGCGCAGCCTGAGGAAGATGTGGCGCCCTGGAGAAAAGAAGGAGCCCCAGGGCGTTGTCTATGAGG  
ATGTGCCGACGACACGGAGGATTTCAAGGAATCGCTTAAGGTGGTTTTGAAGGAAGTGCATATGGATT  
ACAAAACTTTAATAAGCAAAAAGAAATAAAAAGATGTGACGATATGGACACCTTCTTCTGCATTATGCT  
GCAGCAGAAGGCCAAATTGAGCTAATGGAGAAGATCACCAGAGATTCCTCTTTGGAAGTGTGCATGAAA  
TGGATGATTATGGAATACCCCTCTGCATTGTGCTGTAGAAAAAACCAATTGAAAGCGTTAAGTTTCT  
TCTCAGCAGAGGAGCAAACCCAAACCTCCGAAACTTCAACATGATGGCTCCTCTCCACATAGCTGTGCAG  
GGCATGAATAATGAGGTGATGAAGTCTTGCTTGAGCATAGAAGTATTGATGTTAATTTGGAAGGAGAAA  
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GTGCTGGACAATGGTGCACAAAATAGACCCAGTGGAGAAGGAAGGTGCACAGCCATTCAATTTGCTGCC  
ACCCAGGAGCCACTGAGATTGTTAAACTGATGATATCGTCCTATTCTGGTAGCGTGGATATTGTTAACA  
CAACCGATGGATGTCATGAGACCATGCTTACAGAGCTTCATTGTTTATCACCATGAGCTAGCAGACTA  
TTTAATTTCAAGTGGGAGCAGATATTAATAAGATCGATTCTGAAGGACGCTCTCCACTTATATTAGCAACT  
GCTTCTGCATCTTGAATATTGTAATTTGCTACTCTCTAAAGGTGCCAAGTAGACATAAAAGATAATT  
TTGGACGTAATTTTCTGCATTTAACTGTACAGCAACCTTATGGATTAATAAACTGCGACCTGAATTTAT  
GCAGATGCAACAGATCAAAGAGCTGGTAAATGGATGAAGACAACGATGGGTGACTCCTCTACATTATGCA  
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AGACATAAGTATACGAGGCTTCTGAATGAAGGTGACCTTCATGGAATGACTCCTCTCCATCTGGCAGCA



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AAGAATGGACATGATAAAGTAGTTCAGCTTCTTCTGAAAAAGGTGCATTGTTTCTCAGTGACCACAATG  
 GCTGGACAGCTTTGCATCATGCGTCCATGGGCGGGTACACTCAGACCATGAAGGTCATTCTTGATACTAA  
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 AACAGAAAAGGAATATTTTATGGATATAAGCAATGTTCTTGAATGGATTATCTACACGACGGGCATCAT  
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 TCATCTCTGAGACAGAGGATGATGATAGCCATTGTTCTTTTCAAGACAGGTTAAGAAAGAGCAGATGGA  
 ACAAAGGAATAGCAGATGGAATACTGTGTTGAGAGCAGTCAAGGCAAAAAACACCATCTTGAGCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG219290 representing NM\_007332  
 Red=Cloning site Green=Tags(s)

MKRSLRKMWRPGEKKEPQGVVYEDVPDDTDFKESLKVFEFSAYGLQNFNKQKLLKRCDDMDTFFLHYA  
 AAEGQIELMEKISTRSSLEVLHEMDDYGNTPHCAVEKNQIESVKFLLSRGANPNLRNFMNMAPLHIAVQ  
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 KECMEIILRFGEHGYRQLHINFMNNGKATPLHLAVQNGDLEMIMCLDNGAQIDPVEKGRCTAIHFAA  
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 CRQGGPGSVNLLGFNVSIHSSKSKDKSPLHFAASYGRINTCQRLLQDISDTRLLNEGDLHGMPHLHAA  
 KNGHDKVVQLLLKKGALFLSDHNGWTALHHASMGYQTMTKVIILDTNLKCTDRLDEDGNTALHFAAREGH  
 AKAVALLSHNADIVLNKQASFLHLALHNKRKEVVLTIIRSKRWDECLIFSHNSPGNKCPISTEMIEYL  
 PECMKVLLDFCMLHSTEDKSCRDYIEYNFKYLQCPLEFTKKPTQDVIYEPLTALNAMVQNNRIELLNH  
 PVCKEYLLMKWLAYGFRAHMMNLGSYCLGLIPMTILVNIKPGMAFNSTGIINETS DHSEILDTTNSYLI  
 KTCMILVFLSSIFGYCKEAGQIFQQRNYFMDISNVLEWIIYTTGIIIFVLPLFVEIPAHLQWQCGAIAVY  
 FYWMNFLLYLQRFENCIFIVMLEVILKTLRSTVVFIFLLLAFLGFSFYILLNLQDPFSSPLLIIQTF  
 MMLGDINYSFLEPYLRNELAHPVLSFAQLVSFTIFVPIVLMNLLIGLAVGDIAEVQKHASLKRIAMQV  
 ELHTSLEKKLPLWFLRKVDQKSTIVYPNKRPSGGMLFHIFCFCTGEIRQEIPNADKSLEMIKQKYR  
 LKDLTFLLEKQHELKLIQKMEIISSETEDDSDHCSFQDRFKKEQMEQRNSRWNTVLRVAKATHHLEP

TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_007332

**ORF Size:** 3357 bp

**OTI Disclaimer:** 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:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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

**RefSeq ORF:** 3360 bp

**Locus ID:** 8989

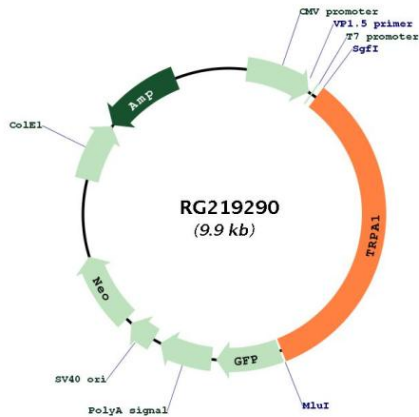
**UniProt ID:** [O75762](#)

**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]

**Product images:**



Circular map for RG219290