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Product datasheet for RG230474

TRP 7 (TRPC7) (NM_001167576) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRP 7 (TRPC7) (NM_001167576) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TRP 7
Synonyms:	TRP7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>RG230474 representing NM_001167576
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTGAGGAACAGCACCTTCAAAAACATGCAGCGCCGGCACACAACGCTGAGGGAGAAGGGCCGTCGCC
AGGCCATCCGGGGTCCCGCCTACATGTTCAACGAGAAGGGCACCAGTCTGACGCCCGAGGAGGAGCGCTT
CCTGGACTCGGCTGAGTATGGCAACATCCCGGTGGTCCGGAAAATGCTGGAGGAGTCCAAGACCCTTAAC
TTCAACTGTGTGGACTACATGGGGCAGAACGCTCTGCAGCTGGCCGTGGGCAACGAGCACCTAGAGGTCA
CGGAGCTGCTGCTGAAGAAGGAGAACCTGGCACGGGTGGGGGACGCGCTGCTGCTGGCCATCAGCAAGGG
CTATGTGCGCATCGTGGAGGCCATCCTCAACCACCCGGCCTTCGCGCAGGGCCAGCGCCTGACGCTCAGC
CCGCTGGAACAGGAGCTGCGCGACGACGACTTCTATGCCTACGACGAGGACGGCACGCGCTTCTCCCACG
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TCCTTCAGCCACTCGCGCTCGCGCATGAACGCCTACAAAGGACTGGCGAGTGCTGCCTACTTGTCCCTGT
CCAGCGAAGACCCTGTCCTCACCGCCCTGGAGCTCAGCAACGAGTTAGCCAGACTAGCCAACATTGAGAC
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TCCAGCCTGCGCTATGAGCTTCTTGAGGAAAAATCTCAAGCTACTGGTGAGCTGGCAGACCTGATTCAAC
AACTCAGCGAGAAGTTTGGAAAGAACTTAAACAAAGACCACCTGAGGGTGAACAAGGGCAAAGACATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG230474 representing NM_001167576
Red=Cloning site Green=Tags(s)

MLRNSTFKNMQRRHTTLREKGRRQAIRGPAYMFNEKGTSLTPEEERFLDSAEYGNIPVVRKMLEESKTLN
FNCVDYMGQNALQLAVGNEHLEVTELLLKKENLARVGDALLLAISKGYVRIVEAILNHPAFAQGQRLTLS
PLEQELRDDDFYAYDEDGTRFSHDITPIILAAHCQEYEIVHILLLKGARIERPHDYFCKCNECTEKQRKD
SFSHSRSRMNAYKGLASAAYLSLSSEDPVLTALELSNELARLANIETEFKLGRTLRSPFMKFVAHAVSFT
IFLGLLVVNASDRFEGVKTLPNETFTDYPKQIFRVKTTQFSWTEMLIMKWVLGMIWSECKEIWEEGPREY
VLHLWNLLDFGMLSIFVASFTARFMAFLKATEAQLYVDQHVQDDTLHNVSLPPEVAYFTYARDKWWPSDP
QIISEGLYAIAVVLSFSRIAYILPANESFGPLQISLGRTVKDIFKFMVIFIMVFVAFMIGMFNLYSYYRG
AKYNPAFTTVEESFKTLFWSIFGLSEVISVVLKYDHKFIENIGYVLYGVYNVTMVVVLLNMLIAMINNSY
QEIEEDADVEWKFARAKLWLSYFDEGRTLPAPFNLVPSPKSFYYLIMRIKMCLIKLCKSKAKSCENDLEM
GMLNSKFKKTRYQAGMRNSENLTANNTLSKPTRYQKIMKRLIKRYVLKAQVDRENDEVNEGELKEIKQDI
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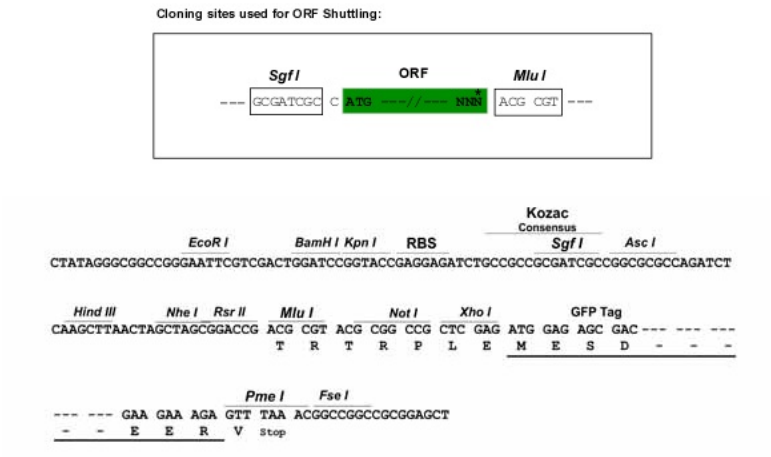
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001167576

ORF Size: 2238 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_001167576.2

RefSeq Size: 2587 bp

RefSeq ORF: 2241 bp

Locus ID: 57113

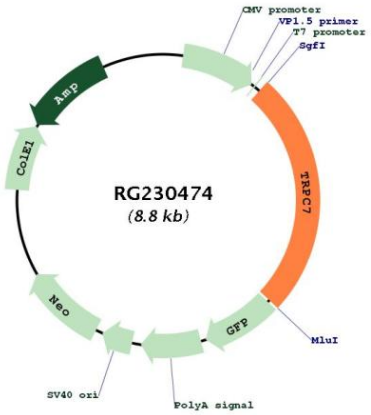
UniProt ID: Q9HCX4

Cytogenetics: 5q31.1

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

Gene Summary: Thought to form a receptor-activated non-selective calcium permeant cation channel. Probably is operated by a phosphatidylinositol second messenger system activated by receptor tyrosine kinases or G-protein coupled receptors. Activated by diacylglycerol (DAG) (By similarity). May also be activated by intracellular calcium store depletion. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG230474