

Product datasheet for **RG222755**

TRP 7 (TRPC7) (NM_020389) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | TRP 7 (TRPC7) (NM_020389) 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:

>RG222755 representing NM_020389
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTGAGGAACAGCACCTTCAAAAACATGCAGCGCCGGCACACAACGCTGAGGGAGAAGGGCCGTCGCC
 AGGCCATCCGGGGTCCCGCTACATGTTCAACGAGAAGGGCACCACTGCTGACGCCGAGGAGGAGCGCTT
 CCTGGACTCGGCTGAGTATGGCAACATCCCGTGGTCCGAAAAATGCTGGAGGAGTCCAAGACCCTTAAC
 TTCAACTGTGTGGACTACATGGGGCAGAACGCTCTGCAGCTGGCCGTGGGCAACGAGCACCTAGAGGTCA
 CGGAGCTGCTGCTGAAGAAGGAGAACCTGGCACGGGTGGGGACGCGCTGCTGCTGGCCATCAGCAAGGG
 CTATGTGCGCATCGTGGAGGCCATCCTCAACCACCCGGCCTTCGCGCAGGGCCAGCGCTGACGCTCAGC
 CCGCTGGAACAGGAGCTGCGCGACGACGACTTCTATGCCTACGACGAGGACGGCACGCGCTTCTCCACG
 ACATCACGCCCATCATCCTGGCGGCGCACTGCCAGGAGTATGAGATCGTGCACATCCTGCTGCTCAAGGG
 CGCCCGCATCGAGCGGCCACGACTACTTCTGCAAGTGAATGAGTGCACCGAGAAACAGCGGAAAGAC
 TCCTTCAGCCACTCGCGCTCGCGCATGAACGCCTACAAAGGACTGGCGAGTGTGCTACTTGTCCCTGT
 CCAGCGAAGACCCTGTCCTCACCGCCCTGGAGCTCAGCAACGAGTTAGCCAGACTAGCCAACATTGAGAC
 TGAATTTAAGAACGATTACAGGAAGTTATCTATGCAATGCAAGGATTTTGTAGTGGGCGTGTGGACCTG
 TGCCGAGACACAGAAGAGGTGGAAGCAATTTAAACGGTGATGTGAACTTCCAAGTCTGGTCCGACCACC
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 CTGTGCAGCAATTGCTTACCATGTGGTATGAAAATCTCTCAGGCTTACGTCAACAGTCTATCGCTGTG
 AAATCCTGGCTGCTTTGGAGTCTCCATAGCCCTCCCTTTTCTCGCCATAGCCTATTGGATTGCTCCGT
 GCAGCAAGCTAGGACGAACCCCTGAGGACCCCTTTCATGAAGTTTGTAGCTCATGCAAGTTTCTTTACAAT
 CTCTTTGGGATTATTAGTTGTGAATGCATCTGACCGATTTGAAGGTGTTAAAACCCCTGCCAAACGAAACC
 TTCACAGACTACCCAAAACAAATCTTCAGAGTGA AAAACACACAGTTCTCCTGGACAGAAATGCTCATT
 TGAAGTGGTCTTAGGAATGATTTGGTCCGAATGCAAGGAAATCTGGGAGGAGGGCCACGGGAGTACGT
 GCTGCACTTGTGGAACCTGCTAGATTTCCGGATGCTGTCCATCTTCGTGGCTCCTTCACAGCACGCTTC
 ATGGCCTTCTGAAGGCCACGGAGGCACAGCTGTACGTGGACCAGCACGTGCAGGACGACACGCTGCACA
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 GCCAACGAGAGTTTTGGGCCCTGCAGATCTCGCTAGGGAGAAGTGTGAAAGATATCTTCAAGTTTATGG
 TCAATTTTCATCATGGTATTTGTGGCCTTCATGATTGGGATGTTAACCTGTACTTACTACCGAGGTGC
 CAAATACAACCCAGCGTTTACAACGGTTGAAGAAAGTTTTAAAACCTTTGTTTTGGTCCATATTCCGGCTTA
 TCTGAAGTAACTCAGTGGTGTGAAATACGACCACAAATTCATCGAGAACATTGGCTACGTTCTCTACG
 GCGTTTAAACGTCAACATGGTGGTGTGTTGCTCAACATGCTAATAGCCATGATAAAACACTCCTATCA
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 GAAGGAAGAACTTACCTGCTCCTTTTAACTAGTCCAAAGTCTAAATCATTATTTATTATCTCATAATGA
 GAATCAAGATGTCCCTCATAAACTCTGCAAACTAAGGCCAAAAGCTGTGAAAATGACCTTGAATGGG
 CATGTGAATTCAAAATCAAGAAGACTCGCTACCAGGCTGGCATGAGGAATTCTGAAAATCTGACAGCA
 AATAACACTTTGAGCAAGCCACCAGATACCAGAAAATCATGAAACGGCTCATAAAAAGATACGTCCTGA
 AAGCCCAGGTGGACAGAGAAAATGACGAAGTCAATGAAGGCGAGCTGAAGGAAATCAAGCAAGATATCTC
 CAGCCTGCGCTATGAGCTTCTGAGGAAAAATCTCAAGCTACTGGTGTGAGCTGGCAGACCTGATTCAACA
 CTCAGCGAGAAGTTTGGAAAGAACTTAAACAAAGACCACCTGAGGGTGAACAAGGGCAAAGACATT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG222755 representing NM_020389
Red=Cloning site Green=Tags(s)

MLRNSTFKNMQRHHTLREKGRRAIRGPAYMFNEKGTSLTPEEERFLDSAEGNIPVVRKMLEESKTLN
FNCVDYMGQNALQLAVGNEHLEVTELLKKENLARVGDALLLAISKGYRIVEAILNHPAFAQQRLTSL
PLEQELRDDDFYAYDEDGTRFSDITPIILAAHCQEYEVHILLKGGARIERPHDYFCKCNECTEKQRKD
SFSHSRMRMAYKGLASAAVLSLSEDPVLTALEL SNELARLANIETEFKNDYRKL SMQCKDFVVGVLDL
CRDTEEEVAILNGDVNFQWSDHHRPSLSRIKLAIKYEVKKFVAHPNCQQLLTMWYENLSGLRQQSIIV
KFLAVFGVSIPLFLAIAYWIAPCSKLGRTLRSFPMKFVAHAVSFITIFLGLLVVNASDRFEGVKTLPNET
FTDYPKQIFRVKTTQFSWTEMLIMKWVLMGIWSECKEIWEEGPREYVHLWNLDFGMLSIFVASFTARF
MAFLKATEAQLYVDQHVQDDTLHNVSLLPPEVAYFTYARDKWWPSPDQII SEGLYAIIVVLSFSRIAYILP
ANESFGPLQISLGRVTKDIFKFMVIFIMVFVAFMIGMFNLYSYRGAKYNPAFTTVEESFKTLFWSIFGL
SEVISVVLKYDHKFIENIGYVLYGVYVNTMVVLLNMLIAMINNSYQEI EEDADVEWKFARAKLWLSYFD
EGRTLPAFPNLVPSPKSFYYLIMRIKMLIKLCKSKAKSCENDLEMGLNSKFKKTRYQAGMRNSENLT
NNTLSKPTRYQKIMKRLIKRYVLAQVDRENDEVNEGELKEIKQDISSLRYELLEESQATGELADLIQQ
LSEKFGKNLNKDHLRVNKGKDI

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_020389

ORF Size: 2586 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_020389.3](#)

RefSeq Size: 2589 bp

RefSeq ORF: 2589 bp

Locus ID: 57113

UniProt ID: [Q9HCX4](#)

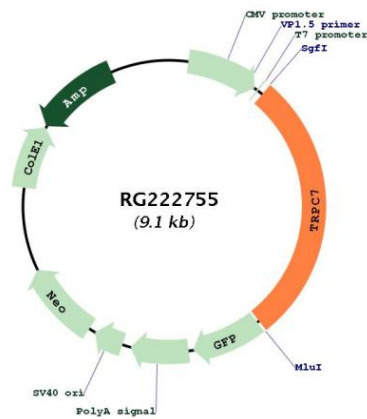
Cytogenetics: 5q31.1

Domains: ANK, ion_trans

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 RG222755