

Product datasheet for **RG211243**

TRH Receptor (TRHR) (NM_003301) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRH Receptor (TRHR) (NM_003301) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TRH Receptor
Synonyms:	CHNG7; TRH-R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211243 representing NM_003301 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAAAACGAGACAGTCAGTGAACGAACCAACACAGCTTCAGCCACGAGCAGTGGTGGCCTTAGAAT
ACCAGGTGGTCACCATCTTACTTGTACTCATTATTTGTGGCTGGGCATTGTAGGCAACATCATGGTAGT
CCTGGTTGTCATGAGAACCAAGCACATGAGGACCCCCACAACCTGCTACCTGGTGAGCCTGGCAGTAGCT
GATCTCATGGTCTTGGTGGCCGAGGCCTCCCCAACATAACAGACAGTATCTACGGTTCCTGGGTCTATG
GCTATGTTGGATGCCTCTGCATTACTTACCTCCAGTATTTGGGAATTAATGCATCCTCTTGTCAATAAC
AGCCTTTACCATTGAGAGGTACATAGCAATCTGTCAACCCATCAAAGCCAGTTTCTCTGCACATTTTCC
AGAGCCAAAAAGATTATCATCTTTGCTGGGCTTTCACATCTCTTACTGTATGCTCTGGTCTTCTTGGC
TGGATCTCAATATTAGCACCTACAAAGATGCTATTGTGATATCCTGTGGCTACAAGATCTCCAGGAATTA
CTACTCACCTATTTACCTAATGGACTTTGGTGTCTTTTATGTTGTGCCAATGATCCTGGCTACCGTCCCT
TATGGATTCATAGCTAGAATCCTTTTCTTAAATCCCATTCCTTCAGATCCTAAAGAAAATCTAAGACAT
GGAAAAATGATTAACCCATCAGAACACAAATCTGAATGTAATACCTCTAATAGATGTTTCAACAGCAC
AGTATCTTCAAGGAAGCAGGTCACCAAGATGCTGGCAGTGGTTGTAATTTGTTGGCCCTTTTATGGATG
CCCTACAGGACTCTAGTGGTTGCAACTATTTCTCCAGTCTTTCCAAGAAAATTTGGTCTTTTGGCTCT
TTTGCAGAAATTTGCATTTATCTCAACAGTGCCATCAACCCGGTGATTTACAATCTCATGTCCAGAAATT
CCGTGCAGCCTTCAGAAAAGCTCTGCAACTGCAAGCAGAAGCCAACAGAGAAAACCTGCTAACTACAGTGTG
GCCCTAAATTACAGCGTCATCAAGGAGTCAGACATTTTCAAGCAGAGCTTGATGATATCACTGTCACTG
ACACTTACCTGTCTGCCACAAAAGTGTCTTTTATGACACCTGCTGGCTTCTGAGGTATCCTTTAGCCA
AAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG211243 representing NM_003301
 Red=Cloning site Green=Tags(s)

MENETVSELNQTQLQPRAVVALEYQVVTILLVLIICGLGIVGNIMVVLVVMRTKHMRTPTNCYLVS LAVA
 DLMVLVAAGLPNITDSIYGSWVYGVVGLCITYLQYLGINASSCSITAF TIERYIAICHPIKAQFLCTFS
 RAKKIIIFVWAF TSLYCLWFFLLDLNISTYKDAIVISCGYKISRNYSP IYLMDFGVFYVVP MILATVL
 YGFIARILFLNP IPSDPKENSKTWKNDSTHQNTNLNVNTSNRCFNSTVSSRKQVTKMLAVVVILFALLWM
 PYRTL VVNSFLSPPFQENWFLFCR IC IYLNSA INPVIYNLMSQKFRAAFRKL CNCKQKPT EKPANYSV
 ALNYSVIKESDHFSTELDDITVTD TYLSATKVSFDDTCLASEVFSQS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003301

ORF Size: 1194 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_003301.7](#)

RefSeq Size: 1348 bp

RefSeq ORF: 1197 bp

Locus ID: 7201

UniProt ID: [P34981](#)

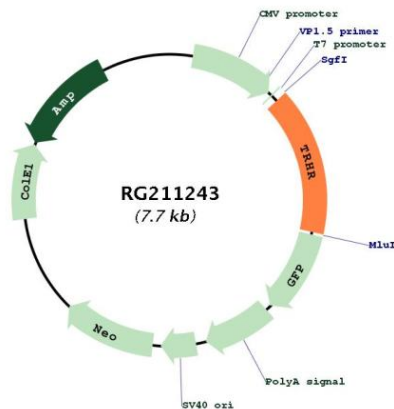
Cytogenetics: 8q23.1

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Calcium signaling pathway, Neuroactive ligand-receptor interaction

Gene Summary: This gene encodes a G protein-coupled receptor for thyrotropin-releasing hormone (TRH). Upon binding to TRH, this receptor activates the inositol phospholipid-calcium-protein kinase C transduction pathway. Mutations in this gene have been associated with generalized thyrotropin-releasing hormone resistance. [provided by RefSeq, Sep 2011]

Product images:



Circular map for RG211243