

Product datasheet for **RG200735**

Thyroid Hormone Receptor alpha (THRA) (NM_003250) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Thyroid Hormone Receptor alpha (THRA) (NM_003250) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Thyroid Hormone Receptor alpha
Synonyms:	AR7; c-ERBA-1; CHNG6; EAR7; ERB-T-1; ERBA; ERBA1; NR1A1; THRA1; THRA2; TRAlpha
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG200735 representing NM_003250
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAACAGAAGCCAAGCAAGGTGGAGTGTGGGTGAGCCAGAGGAGAAGCAAGTCCAGGTCCAGGATCACCAGATG
 GAAAGCGAAAAAGAAAGAACGGCCAATGTTCCCTGAAAACAGCATGTCAGGGTATATCCCTAGTTACCT
 GGACAAAGACGAGCAGTGTGTCGTGTGGGGACAAGGCAACTGTTATCACTACCCTGTATCACTTGT
 GAGGGCTGCAAGGGCTTCTTTCGCCGACAATCCAGAAGAACCTCCATCCCACCTATTCTGCAAAATATG
 ACAGCTGCTGTGTCATTGACAAGATCACCCGCAATCAGTGCCAGCTGTGCCGCTTCAAGAAGTGCATCGC
 CGTGGGCATGGCCATGGACTTGGTTCTAGATGACTCGAAGCGGGTGGCCAAGCGTAAGCTGATTGAGCAG
 AACCGGGAGCGGGCGGAAGGAGGAGATGATCCGATCACTGCAGCAGCGACCAGAGCCCACTCCTGAAG
 AGTGGGATCTGATCCACATTGCCACAGAGGCCATCGCAGCACCATGCCAGGGCAGCCATTGAAACA
 GAGGGCGAAATTCCTGCCGATGACATTGGCCAGTCACCCATTGTCTCCATGCCGGACGGAGACAAGGTG
 GACCTGGAAGCCTTCAGCGAGTTTACCAAGATCATCACCCGGCCATCACCCGTGTGGTGGACTTTGCCA
 AAAAAGTCCCATGTTCTCCGAGCTGCCTTGCAGAACAGATCATCCTCCTGAAGGGGTGCTGCATGGA
 GATCATGTCCCTGCGGGCGGCTGTCCGCTACGACCCTGAGAGCGACACCCTGACGCTGAGTGGGGAGATG
 GCTGTCAAGCGGGAGCAGCTCAAGAATGGCGGCCTGGGCGTAGTCTCCGACGCCATCTTTGAACTGGGCA
 AGTCACTCTCGCCTTTAACCTGGATGACACGGAAGTGGCTCTGCTGCAGGCTGTGCTGTAATGTCAAC
 AGACCGCTCGGCCTGCTGTGTGGACAAGATCGAGAAGAGTCAAGAGGCGTACCTGCTGGCGTTCCGAG
 CACTACGTCAACCACCGCAAACACAACATTCCGCACTTCTGGCCAAGCTGCTGATGAAGGAGAGAGAAG
 TGCAGAGTTCGATTCTGTACAAGGGGGCAGCGGCAGAAGGCCGGCCGGGGGCTACTGGCGCTCCACCC
 GGAAGGACAGCAGCTTCTCGGAATGCATGTTGTTCAAGGTCCGACGGTCCGGCAGCTTGAGCAGCAGCTT
 GGTGAAGCGGAAGTCTCCAAGGCGGTTCTTTCAGCACCAGAGCCGAAGAGCCCGCAGCAGCGTCTCC
 TGGAGCTGCTCCACCGAAGCGGAATTCTCCATGCCCGAGCGGTCTGTGGGGAAGACGACAGCAGTGAAGC
 GGACTCCCGAGCTCTCTGAGGAGAACCGGAGGTCTGCGAGGACCTGGCAGGCAATGCAGCCTCTCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG200735 representing NM_003250
 Red=Cloning site Green=Tags(s)

MEQKPSKVECGSDPEENSARSPDGKRRKRKNGQCSLKTSMGYIPSYLDKDEQCVVCGDKATGYHYRCITC
 EGCKGFRRTIQKNLHPTYSCKYDSCCVIDKITRNQCQLCRFKKCIAVGMAMDVLDDSKRVAKRKLI EQ
 NRERRRKEEMIRSLQQRPEPTPEEWDLIHIATEAHRSTNAQGSHWKQRRKFLPDDIGQSPIVSMPDGDV
 DLEAFSEFTKIIITPAITRVVDFAKKLPMPFSELPCEQIILLKGCMEIMSLRAAVRYDPESDTLTLSGEM
 AVKREQLKNGGLGVVSDAIFELGKLSAFNLDDTEVALLQAVLLMSTDRSGLLCVDKIEKSQEAYLLAFE
 HYVNRKHNIPIHFWPKLLMKEREVQSSILYKAAAEGRPGGSLGVHPEGQQLGMHVQGPQVRQLEQQL
 GEAGSLQGPVLQHSPKSPQQRLELLHRSGILHARAVCGEDDSSEADSPSSSEEEPEVCEDLAGNAASP

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_003250

ORF Size: 1470 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_003250.6](#)

RefSeq Size: 2474 bp

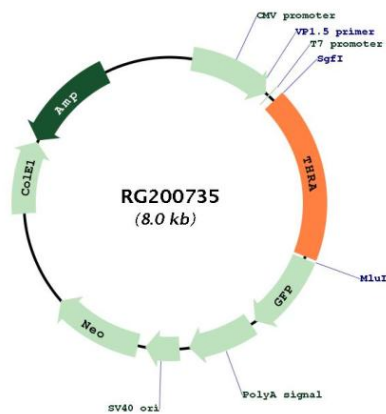
RefSeq ORF: 1473 bp

Locus ID: 7067

UniProt ID: [P10827](#)

Cytogenetics: 17q21.1
Domains: HOLI, zf-C4
Protein Families: Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
Protein Pathways: Neuroactive ligand-receptor interaction
Gene Summary: The protein encoded by this gene is a nuclear hormone receptor for triiodothyronine. It is one of the several receptors for thyroid hormone, and has been shown to mediate the biological activities of thyroid hormone. Knockout studies in mice suggest that the different receptors, while having certain extent of redundancy, may mediate different functions of thyroid hormone. Alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG200735