

Product datasheet for **RG234259**

Thyroid Hormone Receptor alpha (THRA) (NM_001190919) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Thyroid Hormone Receptor alpha (THRA) (NM_001190919) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	THRA
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:

>RG234259 representing NM_001190919
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGAACAGAAGCCAAGCAAGGTGGAGTGTGGGTGAGCCAGAGGAGAACAGTCCAGGTACCAGATG
 GAAAGCGAAAAAGAAAGAACGGCCAATGTTCCCTGAAAACAGCATGTCAGGGTATATCCCTAGTTACCT
 GGACAAAGACGAGCAGTGTGTCGTGTGGGGACAAGGCAACTGTTATCACTACCCTGTATCACTTGT
 GAGGGCTGCAAGGGCTTCTTTCGCCGACAATCCAGAAGAACCTCCATCCCACCTATTCTGCAAAATAG
 ACAGCTGTGTGTCATTGACAAGATCACCCGCAATCAGTGCCAGCTGTGCCGCTTCAAGAAGTGCATCGC
 CGTGGGCATGGCCATGGACTTGGTTCTAGATGACTCGAAGCGGGTGGCCAAGCGTAAGCTGATTGAGCAG
 AACCGGGAGCGGGCGGAAGGAGGAGATGATCCGATCACTGCAGCAGCGACCAGAGCCCACTCCTGAAG
 AGTGGGATCTGATCCACATTGCCACAGAGGCCCATCGCAGACCAATGCCAGGGCAGCCATTGAAACA
 GAGGCGGAAATTCCTGCCGATGACATTGGCCAGTCACCCATTGTCTCCATGCCGGACGGAGACAAGGTG
 GACCTGGAAGCCTTCAGCGAGTTTACCAAGATCATCACCCGGCCATCACCCGTGTGGTGGACTTTGCCA
 AAAAAGTCCCATGTTCTCCGAGCTGCCTTGCAGAACAGATCATCCTCCTGAAGGGGTGCTGCATGGA
 GATCATGTCCCTGCGGGCGGCTGTCCGCTACGACCCTGAGAGCGACACCCTGACGCTGAGTGGGGAGATG
 GCTGTCAAGCGGGAGCAGCTCAAGAATGGCGGCCCTGGGCGTAGTCTCCGACGCCATCTTTGAACTGGGCA
 AGTCACTCTCGCCTTTAACCTGGATGACACGGAAGTGGCTCTGCTGCAGGCTGTGCTGTAATGTCAAC
 AGACCGCTCGGCCTGCTGTGTGGACAAGATCGAGAAGAGTCAAGGAGGCGTACCTGCTGGCGTTCCGAG
 CACTACGTCAACCACCGCAAACACAACATTCCGCACTTCTGGCCAAGCTGCTGATGAAGGAGAGAGAAG
 TGCAGAGTTCGATTCTGTACAAGGGGGCAGCGGCAGAAGGCCGGCCGGGGGCTACTGGCGCTCCACCC
 GGAAGGACAGCAGCTTCTCGGAATGCATGTTGTTCAAGGTCCGACGGTCCGGCAGCTTGAGCAGCAGCTT
 GGTGAAGCGGAAGTCTCCAAGGCGGTTCTTTCAGCACCAGAGCCGAAGAGCCCGCAGCAGCGTCTCC
 TGGAGCTGCTCCACCGAAGCGGAATTCTCCATGCCCGAGCGGTCTGTGGGGAAGACGACAGCAGTGAAGC
 GGACTCCCGAGCTCCTCTGAGGAGAACCGGAGGTCTGCGAGGACCTGGCAGGCAATGCAGCCTCTCCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234259 representing NM_001190919
 Red=Cloning site Green=Tags(s)

MEQKPSKVECGSDPEENSARSPDGKRKRKNGQCSLKTSMGYIPSYLDKDEQCVVCGDKATGYHYRCITC
 EGCKGFRRTIQKNLHPTYSCKYDSCCVIDKITRNQCQLCRFKKCIAVGMAMDVLDDSKRVAKRKLIEQ
 NRERRRKEEMIRSLQQRPEPTPEEWDLIHIATEAHRSTNAQGSHWKQRRKFLPDDIGQSPIVSMPDGDV
 DLEAFSEFTKIIITPAITRVVDFAKKLPFSELPCEQIILLKGCMEIMSLRAAVRYDPESDTLTLSGEM
 AVKREQLKNGGLGVVSDAIFELGKLSAFNLDDTEVALLQAVLLMSTDRSGLLCVDKIEKSQEAYLLAFE
 HYVNRKHNIPHFWPKLLMKEREVQSSILYKAAAEGRPGGSLGVHPEGQQLGMHVVQGPVQRQLEQQL
 GEAGSLQGPVLQHQSPKSPQRLLELLHRSGILHARAVCGEDDSSEADSPSSSEEEPEVCEDLAGNAASP

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

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_001190919.1](#), [NP_001177848.1](#)

RefSeq Size: 2547 bp

RefSeq ORF: 1473 bp

Locus ID: 7067

UniProt ID: [P10827](#)

Cytogenetics: 17q21.1

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]