

## Product datasheet for **RC234259**

### 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:	Myc-DDK
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-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234259 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAACAGAAGCCAAGCAAGGTGGAGTGTGGGTGAGCCAGAGGAGAACAGTCCAGGTACCAGATG  
 GAAAGCGAAAAAGAAAGAACGGCCAATGTTCCCTGAAAACAGCATGTCAGGGTATATCCCTAGTTACCT  
 GGACAAAGACGAGCAGTGTGTCGTGTGGGACAAGGCAACTGTTATCACTACCCTGTATCACTTGT  
 GAGGGCTGCAAGGGCTTCTTTCGCCGACAATCCAGAAGAACTCCATCCCACCTATTCTGCAAAATAG  
 ACAGCTGTGTGTCATTGACAAGATCACCCGCAATCAGTGCCAGCTGTGCCGTTCAAGAAGTGCATCGC  
 CGTGGGCATGGCCATGGACTTGGTTCTAGATGACTCGAAGCGGGTGGCCAAGCGTAAGCTGATTGAGCAG  
 AACCGGGAGCGGGCGGAAGGAGGAGATGATCCGATCACTGCAGCAGCGACCAGAGCCACTCCTGAAG  
 AGTGGGATCTGATCCACATTGCCACAGAGGCCATCGCAGACCAATGCCAGGGCAGCCATTGAAACA  
 GAGGGCGAAATTCCTGCCGATGACATTGGCCAGTCACCCATTGTCTCCATGCCGGACGGAGACAAGGTG  
 GACCTGGAAGCCTTCAGCGAGTTTACCAAGATCATCACCCGGCCATCACCCGTGTGGTGGACTTTGCCA  
 AAAAAGTCCCATGTTCTCCGAGCTGCCTTGCAGAACAGATCATCCTCCTGAAGGGGTGCTGCATGGA  
 GATCATGTCCCTGCGGGCGGCTGTCCGCTACGACCCTGAGAGCGACACCCTGACGCTGAGTGGGAGATG  
 GCTGTCAAGCGGGAGCAGCTCAAGAAATGGCGGCCCTGGGCGTAGTCTCCGACGCCATCTTTGAACTGGGCA  
 AGTCACTCTCGCCTTAACTGGATGACACGGAAGTGGCTCTGCTGCAGGCTGTGCTGTAATGTCAAC  
 AGACCGCTCGGCCTGCTGTGTGGACAAGATCGAGAAGAGTCAAGAGGCGTACCTGCTGGCGTTCCAG  
 CACTACGTCAACCACCGCAAACACAACATTCCGCACTTCTGGCCAAGCTGCTGATGAAGGAGAGAGAAG  
 TGCAGAGTTCGATTCTGTACAAGGGGGCAGCGGCAGAGCCGGCCGGGGCTACTGGGCGTCCACCC  
 GGAAGGACAGCAGCTTCTCGGAATGCATGTTGTTCAAGGTCCGCAGGTCCGGCAGCTTGAGCAGCAGCTT  
 GGTGAAGCGGAAGTCTCCAAGGGCCGGTCTTTCAGCACAGAGCCGAAGAGCCCGCAGCAGCGTCTCC  
 TGGAGCTGCTCCACCGAAGCGGAATTCTCCATGCCCGAGCGGTCTGTGGGGAAGACGACAGCAGTGAAGG  
 GGACTCCCGAGCTCTCTGAGGAGAACCGGAGGTCTGCGAGGACCTGGCAGGCAATGCAGCCTCTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234259 protein sequence  
 Red=Cloning site Green=Tags(s)

MEQKPSKVECGSDPEENSARSPDGKRKRKNGQCSLKTSMGYIPSYLDKDEQCVCGDKATGYHYRCITC  
 EGCKGFFRRTIQKNLHPTYSCKYDSCCVIDKITRNQCQLCRFKKCIAVGMAMDVLDDSKRVAKRKLIEQ  
 NRERRRKEEMIRSLQQRPEPTPEEWDLIHIAATEHRSTNAQGSHWKQRRKFLPDDIGQSPIVSMPDGDV  
 DLEAFSEFTKIIITPAITRVVDFAKKLPFSELPCEQIILLKGCMEIMSLRAAVRYDPESDTLTLGEM  
 AVKREQLKNGGLGVVSDAIFELGKSLSAFNLDTEVALLQAVLLMSTDRSGLLCVDKIEKSQEAYLLAFE  
 HYVNRKHNIPIHFWPKLLMKEREVQSSILYKAAAEGRPGSLGVHPEGQQLGMHVVQGPVQRLEQQL  
 GEAGSLQGPVLQHQSPKSPQRLLELLHRSGILHARA VCGEDDSSEADSPSSSEEEPEVCEDLAGNAASP

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6080\\_b04.zip](https://cdn.origene.com/chromatograms/mk6080_b04.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001190919

**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\\_001190919.1](#), [NP\\_001177848.1](#)

**RefSeq Size:** 2547 bp

**RefSeq ORF:** 1473 bp

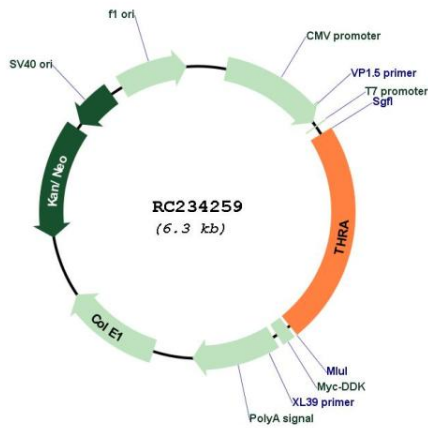
**Locus ID:** 7067

**UniProt ID:** [P10827](#)

**Cytogenetics:** 17q21.1

<b>Protein Families:</b>	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
<b>Protein Pathways:</b>	Neuroactive ligand-receptor interaction
<b>MW:</b>	54.8 kDa
<b>Gene Summary:</b>	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 RC234259