

Product datasheet for **SC307938**

Thyroid Hormone Receptor alpha (THRA) (NM_199334) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Thyroid Hormone Receptor alpha (THRA) (NM_199334) Human Untagged Clone
Tag:	Tag Free
Symbol:	Thyroid Hormone Receptor alpha
Synonyms:	AR7; c-ERBA-1; CHNG6; EAR7; ERB-T-1; ERBA; ERBA1; NR1A1; THRA1; THRA2; TRAlpha
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_199334 edited
AGATCCACAAGTTTGTACAAAAAAGCAGGCTTGTAAAACGACGGCCAGTAACTATAACGG
TCCTAAGGTAGCGAGGCCTGGGTGGCGAATTCGGCACGAGGCCTGCGCTTGCCTATTG
GGGCAAAAATGTCTTAAGCAGTGGGGAACCTGCCACCCACCCTGACCCTCAGCCTGCCA
CAGCCCCCTAC
CACGGACATGGGAAGGCAATGCTATGCTGCCCGTCAGGGCACTGTCTTCCCAATCGTT
CAGGTGTTCCAACAGGGTGGAGGGCTGGAGGAGCACCCGCTGTACCTGTGCATGTGC
CTGTCCCACCGCCCCCATGGACGCCCCAGCACGGGGCGTGAGACCCCGCGTCGCT
GCCAGCCCGGTCCGGCGGCCACGCCGAGGGATCTCTGGACAGGACAAGACTCCGAAGC
TACTCCCCAGCACACAGCCGGGACCCACAAACCCAGCTTGCCCCAGCCCTCCCACCT
GCCACTCCCTGGCCCCTCCCACCGCCCCCCCCCTTGGGGCGCAGGGCATGGTGTGAAAG
GCCAAGTGCTGAGCGGGTATCATGGGTGCTGTGCCCTAGGGCCTGGGTGGCAGGGGGTG
GGTGGCCTGTGGGTGTGCCGGGGGGCCAGTGTGCCAGCCAGTCTCTTGGCGTGTGG
AGGGCATCCTGGATGGAATTGAAGTGAATGGAACAGAAGCAAGCAAGGTGGAGTGTGGG
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CAATGTTCCCTGAAAACAGCATGTGAGGGTATATCCCTAGTTACCTGGACAAAGACGAG
CAGTGTGTCGTGTGGGGACAAGGCAACTGGTTATCACTACCGTGTATCACTTGTGAG
GGCTGCAAGGGCTTCTTTCGCCGCACAATCCAGAAGAACCTCCATCCCACCTATTCCTGC
AAATATGACAGCTGCTGTGTCATTGACAAGATCACCCGCAATCAGTGCCAGCTGTGCCGC
TTCAAGAAGTGCAATCGCGTGGGCATGGCCATGGACTTGGTTCTAGATGACTCGAAGCGG
GTGGCCAAGCGTAAGCTGATTGAGCAGAACCGGGAGCGGCGGGAAGGAGGAGATGATC
CGATCACTGCAGCAGCGACCAGAGCCACTCCTGAAGAGTGGGATCTGATCCACATTGCC
ACAGAGGCCCATCGCAGACCAATGCCAGGGCAGCCATTGAAAACAGAGGCGGAAATTC
CTGCCGATGACATTGGCCAGTCACCCATTGTCTCCATGCCGGACGGAGACAAGGTGGAC
CTGGAAGCCTTCAGCGAGTTTACCAAGATCATCCCCGGCCATCACCCGTGTGGTGGAC
TTTGCCAAAAAACTGCCATGTTCTCCGAGCTGCCTTGCGAAGACCAGATCATCCTCCTG
AAGGGGTGCTGCATGGAGATCATGTCCCTGCGGGCGGCTGTCCGCTACGACCCTGAGAGC



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GACACCCTGACGCTGAGTGGGGAGATGGCTGTCAAGCGGAGCAGCTCAAGAATGGCGGC
CTGGGCGTAGTCTCCGACGCCATCTTTGAACTGGGCAAGTCACTCTGCCTTTAACCTG
GATGACACGGAAGTGGCTCTGCTGCAGGCTGTGCTGCTAATGTCAACAGACCGCTCGGGC
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TACGTCAACCACCGCAAACAACATTCGCACTTCTGGCCCAAGCTGCTGATGAAGGTG
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TGCCCCACCGAACTCTTCCCCCACTTCTCCTCGAGGTCTTTGAGGATCAGGAAGTCTAA
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GCCCTTCTTCCCCACATCAGAGAGAAAATGCCCCACACCAGAGCCCCAAGGGTAGGGC
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GCCCTCTGTGCCCTTTGGCACCCCAACCCTAGTATGTCCTCTGCTTTCTGCCACTCG
TGCCCGCTGAGTCCATCTACCTCTCATGCTGGATGCCAGCTGGCCCTCACCAGCTGC
CCTGCTGCCACACAGCTCCCTTTAAGTGCCAGCCCTAGGGGCTCTCCCCATCCACC
TCCTCCTCCACACCTTGGCACCCACCCAGGAAAAAACTAGACAGAGAGAAAAATACAAA
AAAGAGAGAGCGAGGATAGAGAGAGATGATATTAAGTTATTAAGTGGGCTGACCAGAG
GGGAGGACCCCTTTACCACCCATGCACTTTGCGAGCTGCCCTTCTTCCCTCGAG
TTTTTTTTTTTTTTTTTTGGAGTCAAATTTTCAACTGTGCATTTATTGGCCTGGGCTTA
GACATATTAAGCAACACTTACTGAGAACATAACATAACCAGACATTTCTGCCAGGTG
CTGTTAGGTAAAAA
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Restriction Sites:

Please inquire

ACCN:

NM_199334

Insert Size:

3100 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:

The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.

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_199334.2](#), [NP_955366.1](#)

RefSeq Size: 2405 bp

RefSeq ORF: 2400 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]

Transcript Variant: This variant (1) has a different 3' end exon compared to variant 2. The resulting isoform (1) is shorter and has a distinct C-terminus compared to isoform 2.

Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.