

## Product datasheet for **SC321324**

### Thyroid Hormone Receptor alpha (THRA) (NM\_003250) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Thyroid Hormone Receptor alpha (THRA) (NM_003250) 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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_003250.4  
 CTCGCACTCACACCCGGGCGCAGGAGGCGGGCGGCCCGGGCCCCACCGGCCCCCATGGA  
 CGCCCCAGCACGGGGCGCTGAGACCCCGCGTCGCTGCCAGCCCGGTCCGGCGCGCCA  
 CGCCGAGGGATCTCTGGACAGGACAAGACTCCGAAGCTACTCCCCAGCACACAGCCCGG  
 GACCCACAACCAGCTTGCCCCAGCCCTCCACCTGCCACTCCCTGGCCCCCTCCACC  
 GCCCGCCCCCTTGGGGCGCAGGGCATGGTGTGAAAGGCCAAGTGTGAGCGGGTATCA  
 TGGGTGCTGTGCCCTAGGGCTGGGTGGCAGGGGGTGGGTGGCCTGTGGGTGTGCCGGG  
 GGGCCAGTGTGCCACCCAGTCTCTTGGCGTGTGGAGGGCATCCTGGATGGAATTGAA  
 GTGAATGGAACAGAAGCCAAGCAAGGTGGAGTGTGGGTGACACCCAGAGGAGAACAGTGC  
 CAGGTCACCAGATGAAAAGCGAAAAAGAAAGAACGGCCAATGTTCCCTGAAAACCAGCAT  
 GTCAGGGTATATCCCTAGTTACCTGGACAAAGACGAGCAGTGTGTCGTGTGGGGACAA  
 GGCAACTGTTTACTACTACCGCTGTATCACTTGTGAGGGCTGCAAGGGCTTTTTCGCCG  
 CACAATCCAGAAGAACCTCCATCCACCTATTCTGCAAATATGACAGCTGCTGTGCAT  
 TGACAAGATCACCCGAATCAGTGCCAGCTGTGCCGCTTCAAGAAGTGCATCGCCGTGGG  
 CATGGCCATGGACTTGGTTCTAGATGACTCGAAGCGGGTGGCCAAGCGTAAGCTGATTGA  
 GCAGAACCGGGAGCGGGCGCGGAAGGAGGAGATGATCCGATCACTGCAGCAGCGACCAGA  
 GCCCACTCCTGAAGAGTGGGATCTGATCCACATTGCCACAGAGGCCCATCGCAGCACAA  
 TGCCCAGGGCAGCCATTGAAAACAGAGGCGGAAATTCCTGCCGATGACATTGGCCAGTC  
 ACCCATTGTCTCCATGCCGGACGGAGACAAGGTGGACCTTGAAGCCTTCAGCGAGTTTAC  
 CAAGATCATCACCCGGCCATCACCCGTGTGGTGGACTTTGCCAAAAAATGCCCATGTT  
 CTCCGAGCTGCCTTGGAAAGACCAGATCATCTCTGAAGGGTGTGCTGCATGGAGATCAT  
 GTCCCTGCGGGCGGTGTCCGCTACGACCCTGAGAGCGACACCCTGACGCTGAGTGGGA  
 GATGGCTGTCAAGCGGGAGCAGCTCAAGAATGGCGGCCCTGGGCGTAGTCTCCGACGCCAT  
 CTTTGAAGTGGGCAAGTCACTCTCTGCTTAACTGGATGACACGGAAGTGGCTGCTGCT  
 GCAGGCTGTGCTGCTAATGTCAACAGACCGCTCGGGCCTGCTGTGTGGACAAGATCGA  
 GAAGAGTCAGGAGGCGTACCTGTGGCGTTCGAGCACTACGTCAACCACCGCAAACACAA  
 CATTCCGCACTTCTGGCCCAAGCTGCTGATGAAGGAGAGAGAAGTGCAGAGTTGATTCT  
 GTACAAGGGGGCAGCGGCAGAAGGCCGGCCGGGCGGGTCACTGGGCGTCCACCCGGAAGG  
 ACAGCAGCTTCTCGGAATGCATGTTGTTACAGGGTCCGAGGTCCGGCAGCTTGAGCAGCA  
 GCTTGGTGAAGCGGAAGTCTCCAAGGGCCGTTCTTCAGCACCAGACCCGAAGAGCCC  
 GCAGCAGCGTCTCCTGGAGCTGCTCCACCGAAGCGGAATTCTCCATGCCCGAGCGGTCTG  
 TGGGGAAGACGACAGCAGTGTGAGGCGGACTCCCCGAGCTCCTCTGAGGAGGAACCGGAGGT  
 CTGCGAGGACCTGGCAGGCAATGCAGCCTCTCCCTGAAGCCCCCAGAAGGCCGATGGGG  
 AAGGAGAAGGAGTGCCATACCTTCTCCCAGGCCTTGCCCCAAGAGCAGGAGGTGCCTGA  
 AAGCTGGGAGCGTGGGCTCAGCAGGGCTGGTCACTCCCATCCCCTAAGACCACCTTCCC  
 TTCCTCAGCAGGCCAAACATGGCCAGACTCCCTTGCTTTTGTGCTGTAGTTCCCTCTGC  
 CTGGGATGCCCTTCCCCCTTCTCTGCCTGGCAACATCTACTTGTCTTTGAGGCCCA  
 ACTCAAGTGTACCTCCTCCCCAGCTCCCCAGGCAGAAATAGTTGTCTGTGCTTCTT  
 GTTTCCCAAGCTAGACTGTGTCTGAATCATGTCTGTATCCCCAGTGCCCGGTGCAGGGCC  
 TGGCATAGAGTAGTACTCCATAAAGGTGTGTTGAATTGAAAAAAAAAAAAAAAAAAAAA  
 AAAAAAAAAAAAAA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_003250  
**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_003250.4</a> , <a href="#">NP_003241.2</a>
<b>RefSeq Size:</b>	2474 bp
<b>RefSeq ORF:</b>	1473 bp
<b>Locus ID:</b>	7067
<b>UniProt ID:</b>	<a href="#">P10827</a>
<b>Cytogenetics:</b>	17q21.1
<b>Domains:</b>	HOLI, zf-C4
<b>Protein Families:</b>	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
<b>Protein Pathways:</b>	Neuroactive ligand-receptor interaction
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) represents the longest transcript and encodes the longest isoform (2). Variants 2 and 4 both encode the same isoform (2).</p>