

## Product datasheet for **RN200270**

### Thra (NM\_031134) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Thra (NM_031134) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Thra
Synonyms:	c-erbA-1; ERBA1; Thra1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**Fully Sequenced ORF:** >RN200270 representing NM\_031134  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGAACAGAAGCCAAGCAAGGTGGAGTGTGGGTGAGCCAGAGGAGAACAGTGCCAGGTCAACAGATG  
GAAAGCGAAAAAGGAAGAACGGCCAATGTCCCCTGAAAAGCAGCATGTCAGGGTATATCCCTAGTTACCT  
GGACAAAGACGAGCAGTGTGTCTGTGTGGGACAAGGCCACCGTTATCACTACCCTGTATCACTTGT  
GAGGGCTGCAAGGGCTTCTTTCGCCGTACAATCCAGAAGAACCTCCATCCCACCTATTCTGCAAAATAG  
ACAGCTGCTGCGTCATCGACAAGATCACCCGGAATCAGTGCCAGTTGTGCCGTTCAAGAAGTGCATCGC  
TGTGGGCATGGCCATGGACCTGTTCTAGACGATTCAAAGCGGGTGGCCAAACGCAAGCTGATTGAGCAG  
AACCGGGAGAGGCGAAAGGAGGAGATGATCCGCTCGTGCAGCAACGACCAGAGCCACTCCTGAAG  
AGTGGGATCTGATCCACGTTGCTACAGAGGCCATCGCAGCACCATGCCAGGGCAGCCATTGAAACA  
GAGGCGAAAATTCTGCCGGATGACATTGGCCAGTCACCTATTGTCTCCATGCCGGACGGAGACAAGGTA  
GACCTAGAGGCCCTCAGCGAGTTTACCAAGATCATCACCCGGCCATCACCCGCTGGTGGACTTTGCCA  
AAAACTGCCCATGTTCTCCGAGCTGCCTGTGAAGACCAGATCATCCTCCTGAAGGGCTGCTGCATGGA  
GATCATGTCCCTGCGGGCAGCTGTCCGCTATGACCCTGAGAGCGACACCCTGACCCTGAGTGGGGAGATG  
GCGGTTAAGCGGGAGCAGCTCAAGAAATGGTGGCTTGGGTGTAGTCTCCGACGCCATCTTTGAACTGGGCA  
AGTCACTCTGCTTTAACCTGGATGATACGGAAGTGGCTCTGCTGCAGGCTGTGCTGTTAATGTCAAC  
AGACCGCTCTGGCCTGCTGTGTGGACAAGATCGAGAAGAGTCAAGAGGCTACCTGCTGGCGTTTGGAG  
CACTACGTCAACCACCGCAAACACAACATTCCGCACTTCTGGCCAAGCTGCTGATGAAGGAGAGAGAAG  
TGCAGAGTTCGATTCTGTACAAGGGGGCAGCGGCAGAAGGCCGGCCGGGGGGTCACTGGCGTCCACCC  
GGAAGGACAGCAGCTTCTCGGAATGCATGTTGTTCAAGGTCCGCAGGTCCGGCAGCTTGAGCAGCAGTTT  
GGTGAAGCGGAAGTCTCCGAGGGCCGGTCTTTCAGCACCAGAGCCGAAGAGCCCGCAGCAGCTCTCC  
TGGAGCTGCTCCACGAAGCGGAATTCTCCATTCCCGAGCGGTCTGTGGGGAAGACGACAGCAGTGAAGC  
AAGCTCCCTGAGCTCCTTCTCTGACGAGGACCGGAGGTCTGCGAGGACCTGGCAGGCAAGGCAGCC  
TCTCCCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_031134

**Insert Size:** 1479 bp

**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).

**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\\_031134.2](#), [NP\\_112396.2](#)

**RefSeq Size:** 2268 bp

**RefSeq ORF:** 1479 bp

**Locus ID:** 81812

**UniProt ID:** [P63059](#)

**Cytogenetics:** 10q31

**Gene Summary:** binds the promoter of the Na<sup>+</sup>/H<sup>+</sup> exchanger NHE1 and mediates thyroid hormone induced transcriptional activation [RGD, Feb 2006]  
Transcript Variant: This variant (TRalpha2) contains an alternate 3' terminal exon compared to variant TRalpha1. The resulting protein (c-erbAalpha2, also known as TRalpha 2) has a distinct C-terminus compared to isoform TRalpha1, and fails to bind thyroid hormones or to trans-activate thyroid hormone responsive genes.