

Product datasheet for **RR200270**

Thra (NM_031134) Rat Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>RR200270 representing NM_031134
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAACAGAAGCCAAGCAAGGTGGAGTGTGGGTGAGCCAGAGGAGAAGCAAGTCCAGGTACCCAGATG
 GAAAGCGAAAAAGGAAGAACGGCCAATGTCCCCTGAAAAGCAGCATGTCAGGGTATATCCCTAGTTACCT
 GGACAAAGACGAGCAGTGTGTCGTGTGGGGACAAGGCCACCGTTTACTACTACCCTGTATCACTTGT
 GAGGGCTGCAAGGGCTTCTTTGCGCGTACAATCCAGAAGAACCTCCATCCACCTATTCTGCAAAATATG
 ACAGCTGCTGCGTCATCGACAAGATCACCCGGAATCAGTGCCAGTTGTGCCGCTTCAAGAAGTGCATCGC
 TGTGGGCATGGCCATGGACCTGGTTCTAGACGATTCAAAGCGGGTGGCCAAACGCAAGCTGATTGAGCAG
 AACCGGGAGAGGAGCGAAAGGAGGAGATGATCCGCTCGTGCAGCAACGACCAGAGCCACTCCTGAAG
 AGTGGGATCTGATCCACGTTGCTACAGAGGCCATCGCAGACCAATGCCAGGGCAGCCATTGAAACA
 GAGGCGAAAATTCTGCCGGATGACATTGGCCAGTCACCTATTGTCTCCATGCCGGACGGAGACAAGGTA
 GACCTAGAGGCCCTCAGCGAGTTTACCAAGATCATCACCCGGCCATCACCCGCGTGGTGGACTTTGCCA
 AAAAAGTCCCATGTTCTCCGAGCTGCCTGTGAAGACCAGATCATCCTCCTGAAGGGCTGCTGCATGGA
 GATCATGTCCCTGCGGGCAGCTGTCCGCTATGACCCTGAGAGCGACACCCTGACCCTGAGTGGGGAGATG
 GCGGTTAAGCGGGAGCAGCTCAAGAAATGGTGGCTTGGGTGTAGTCTCCGACGCCATCTTTGAACTGGGCA
 AGTCACTCTGCTTTAACCTGGATGATACGGAAGTGGCTCTGCTGCAGGCTGTGCTGTTAATGTCAAC
 AGACCGCTCTGGCCTGCTGTGTGGACAAGATCGAGAAGAGTCAAGAGGCTACCTGCTGGCGTTTGGAG
 CACTACGTCAACCACCGCAAACAACATTCCGCACTTCTGGCCAAGCTGCTGATGAAGGAGAGAGAAG
 TGCAGAGTTCGATTCTGTACAAGGGGGCAGCGCAGAAGCGCGGGCGGGGCTACTGGCGCTCCACCC
 GGAAGGACAGCAGCTTCTCGGAATGCATGTTGTTCAAGGTCCGACAGTCCGGCAGCTTGAGCAGCAGTTT
 GGTGAAGCGGAAGTCTCCGAGGCGGTTCTTCAAGCAGAGCCGAAGAGCCCGCAGCAGCTCTCC
 TGGAGCTGCTCCACGAAGCGGAATTCTCCATTCCCGAGCGGTCTGTGGGGAAGACGACAGCAGTGAAGC
 AAGCTCCCTGAGCTCTCTCTCTGACGAGGACCGGAGGTCTGCGAGGACCTGGCAGGCAAGGCAGCC
 TCTCCC

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR200270 representing NM_031134
 Red=Cloning site Green=Tags(s)

MEQKPSKVECGSDPEENSARSPDGKRKRKNGQCPLKSSMSGYIPSYLDKDEQCVVCGDKATGYHYRCITC
 EGCKGFFRRTIQKNLHPTYSCKYDSCCVIDKITRNQCQLCRFKKCIAVGMAMDLVLDDSKRVAKRKLEIQ
 NRERRRKEEMIRSLQQRPEPTPEEWDLIHVATEAHRSTNAQGSQHWKQRRKFLPDDIGQSPIVSMPDGDV
 DLEAFSEFTKIIITPAITRVVDFAKKLPFSELPCEQIILLKGCMEIMSLRAAVRYDPESDTLTLSEGM
 AVKREQLKNGGLGVVSDAIFELGKSLSAFNLDDETEVALLQAVLLMSTDRSGLLCVDKIEKSQEAYLLAFE
 HYVNRKHNIPHFVPLKLMKEREVQSSILYKAAAEGRPGSLGVHPEGQQLGMHVQGPQVRQLEQQF
 GEAGSLRGPVLQHQPSPQQRLELLHRSGILHSRAVCGEDDSSEASSLSSSSDEDETEVCEDLAKKAA
 SP

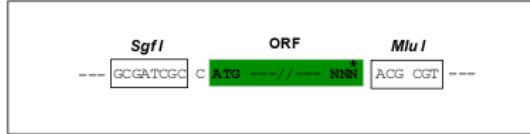
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

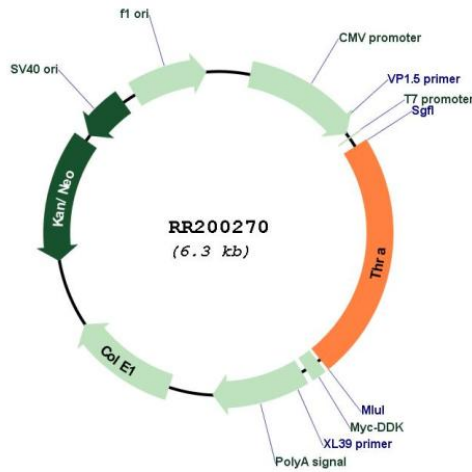
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_031134

ORF Size: 1476 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:	<ol style="list-style-type: none">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
MW:	55 kDa
Gene Summary:	binds the promoter of the Na ⁺ /H ⁺ exchanger NHE1 and mediates thyroid hormone induced transcriptional activation [RGD, Feb 2006]