

## Product datasheet for **RR205711**

### **Cthrc1 (NM\_172333) Rat Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cthrc1 (NM\_172333) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cthrc1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR205711 representing NM\_172333  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCCCCAAGGCCGCGCCCTCCCCACAGCTGCTGCTCGGCCTCTCCTTGTGCTACTGCTGCTTC  
TGCAGCTGTCCGCGCCGTCAGCGCCTCTGAGAATCCAAGGTGAAGCAAAAAGCGTGATCCGGCAGAG  
GGAAGTGGTAGACCTGTATAATGGGATGTGCTACAAGGACCAGCAGGAGTTCCTGGTCGGGATGGGAGC  
CCTGGGGCAATGGCATTCTGGCACACCGGGAATCCCAGGTCGGATGGATTCAAAGGAGAGAAAAGGGG  
AGTGCTTAAGGAAAGCTTTGAGGAATCTGGACCCAAACTACAAGCAGTGTTTCAAGGAGTTCACCTAA  
TTATGGCATAGATCTTGGGAAAATTGCGGAATGTACATTCACAAAGATGCGATCCAACAGCGCTCTTCGA  
GTTCTGTTCAAGTGGCTCGCTTCGGCTCAAATGCAGGAATGCTTGTGTCACAGCTGGTATTTTACCTTAA  
ATGGAGCTGAATGTTCAAGACCTCTCCATTGAAGCTATCATCTATCTGGACCAAGGAAGCCCTGAGTT  
AAATCAACTATTAATATTCATCGTACTTCTCCGTGGAAGGACTCTGTGAAGGGATTGGTGTGGACTG  
GTAGACGTGGCCATCTGGGTCGGCACCTGTTCAAGATTACCCAAAGGAGACGCTTCTACTGGGTGGAATT  
CTGTGTCCGCATCATCATTGAAGAATAACAAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR205711 representing NM\_172333  
Red=Cloning site Green=Tags(s)

MHPQGRAASPQLLLGLFLVLLLLQLSAPSSASENPKVKQKALIRQREVVDLYNGMCLQGPAGVPRDGS  
PGANGIPGTPGIPGRDGFKEKGECLRESFEESWTPNYKQCSWSSLNYGIDLGKIAECTFTKMRNSALR  
VLFSGSLRLKCRNACCQRWYFTFNGAECGSLPIEAIIYLDQGSPELNSTINIHRSSVEGLCEGIGAGL  
VDVAIIVGTCSDYPKGDASTGWNSVSRIIEELPK

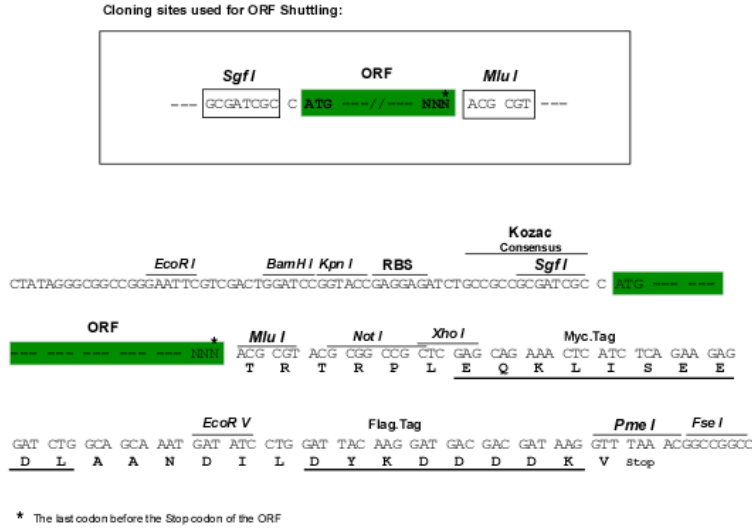
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV



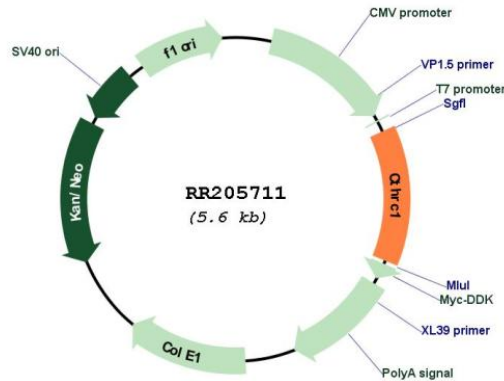
[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_172333

ORF Size: 735 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.

<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_172333.2</a> , <a href="#">NP_758836.1</a>
<b>RefSeq Size:</b>	1216 bp
<b>RefSeq ORF:</b>	738 bp
<b>Locus ID:</b>	282836
<b>UniProt ID:</b>	<a href="#">Q8CG08</a>
<b>Cytogenetics:</b>	7q31
<b>MW:</b>	26.4 kDa
<b>Gene Summary:</b>	Its overexpression in smooth muscle cell lines increases their migratory ability and inhibits collagen type I expression. May act as a negative regulator of collagen matrix deposition. [UniProtKB/Swiss-Prot Function]