

## Product datasheet for **RR216098**

### **Cthrc1 (NM\_001271300) Rat Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cthrc1 (NM\_001271300) 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:** >RR216098 representing NM\_001271300  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGACCCCCAAGGCCGCGCCCTCCCCACAGCTGCTGCTCGGCCTCTCCTTGTGCTACTGCTGCTTC  
TGCAGCTGTCCGCGCCGTCAGCGCCTCTGAGAATCCAAGTATAATGGGATGTGCCTACAAGACCAGC  
AGGAGTTCCTGGTCGCGATGGGAGCCCTGGGCCAATGGCATTCTGGCACACCGGAATCCCAGGTCGG  
GATGGATTCAAAGGAGAGAAAGGGGAGTGTCTAAGGGAAGCTTTGAGGAATCCTGGACCCAACTACA  
AGCAGTGTTCATGGAGTTCACCTAATTATGGCATAGATCTTGGGAAAATTGCGGAATGTACATTCACAAA  
GATGCGATCCAACAGCGCTCTTCGAGTTCTGTTCAAGTGGCTCGCTTCGGCTCAAATGCAGGAATGCTTGC  
TGTCAACGCTGGTATTTTACCTTAATGGAGCTGAATGTTCAAGGACCTCTCCCATTGAAGCTATCATCT  
ATCTGGACCAAGGAAGCCCTGAGTTAAATTCAACTATTAATTCATCGTACTTCTCCGTGGAAGGACT  
CTGTGAAGGGATTGGTGTGGACTGGTAGACGTGGCCATCTGGGTCGGCACCTGTTGAGATTACCCCAA  
GGAGACGCTTCTACTGGTGGAATCTGTGTCCGCATCATCATTGAAGAATAACAAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR216098 representing NM\_001271300  
Red=Cloning site Green=Tags(s)

MHPQGRAASQQLLLGLFLVLLLLLQLSAPSSASENPKYNGMCLQGPAGVPGRDGSPPGANGIPGTPGIPGR  
DGFKGEKGECLRESFEESWTPNYKQCSWSSLNYGIDLKIAECTFTKMRNSALRVLFSGSLRLKCRNAC  
CQRWYFTFNGAECGSLPIEAIYLDQGSPELNSTINIHRTSSVEGLCEGIGAGLVDVAIWWGTCSDYPK  
GDASTGWNSVSRIIIIEELPK

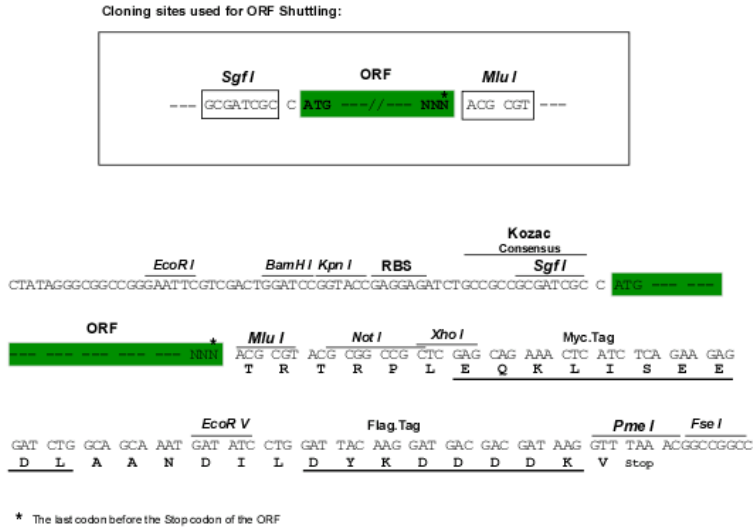
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV



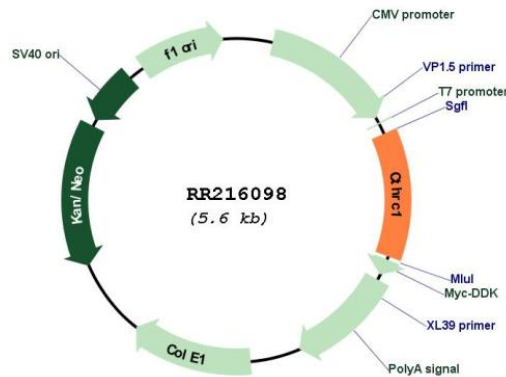
[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001271300

ORF Size: 690 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>	<u>NM_001271300.1, NP_001258229.1</u>
<b>RefSeq Size:</b>	1171 bp
<b>RefSeq ORF:</b>	693 bp
<b>Locus ID:</b>	282836
<b>Cytogenetics:</b>	7q31
<b>MW:</b>	24.6 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]