

## Product datasheet for **RC207810**

### **HTRA3 (NM\_053044) Human Tagged ORF Clone**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                      |
| Product Name:             | HTRA3 (NM_053044) Human Tagged ORF Clone |
| Tag:                      | Myc-DDK                                  |
| Symbol:                   | HTRA3                                    |
| Synonyms:                 | Prsp; Tasp                               |
| Mammalian Cell Selection: | Neomycin                                 |
| Vector:                   | pCMV6-Entry (PS100001)                   |
| E. coli Selection:        | Kanamycin (25 ug/mL)                     |



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**ORF Nucleotide Sequence:**

>RC207810 representing NM\_053044  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCAGGCGCGAGCGCTGCTCCTGGCCGCGTTGGCCGCGTGGCGCTGGCCCGGGAGCCCCCTGCGGCGC  
 CGTGTCCCGCGCGCTGCGACGTGTGCGGTTGCCAGCCCCGCTGCCCGGCGGTACGTGCCGACCT  
 CTGCAACTGCTGCCTGGTGTGCGCCGCCAGCGAGGGCGAGCCCTGTGGCGCCCTCTGGACTCGCCTTGC  
 GGCGAGAGCTGGAGTGCCTGCGCGCCTATGCCGCTGCCGCTGGTGCACGCCGTGTGTGGCACCAGCG  
 GGCACACCTATGCCAACGTGTGCGCGTGCAGGCGGCCAGCCCGCGCGCTGCAGCTCTCCGGGACGCC  
 CGTGCGCCAGCTGCAGAAGGGCGCTGCCGTTGGGTCTCCACCAGCTGAGCAGCCCGCGCTACAAGTTC  
 AACTTCATTGCTGACGTGGTGGAGAAGATCGCACAGCCGTGGTCCACATAGAGCTCTTCTGAGACACC  
 CGCTGTTTGGCCCAACGTGCCCTGTCCAGCGGTTCTGGCTTCATCATGTCAGAGGCCGCGCTGATCAT  
 CACCAATGCCAGTGGTGTCCAGCAACAGTGTGCCCGGGCAGGCAGCAGCTCAAGGTGCAGCTACAG  
 AATGGGGACTCCTATGAGGCCACCATCAAAGACATCGACAAGAAGTCGGACATTGCCACCATCAAGATCC  
 ATCCCAAGAAAAAGCTCCCTGTGTTGTTGCTGGGTCACTCGGCCGACCTGCGGCCTGGGGAGTTGTGGT  
 GGCCATCGGCAGTCCCTTCGCCCTACAGAACACAGTGACAACGGGCATCGTCAGCACTGCCAGCGGGAG  
 GGCAGGGAGCTGGGCCTCCGGGACTCCGACATGGACTACATCCAGACGGATGCCATCAACTACGGGA  
 ACTCCGGGGGACCACTGGTGAACCTGGATGGCGAGGTCATTGGCATCAACACGCTCAAGGTACGGCTGG  
 CATCTCCTTTGCCATCCCTCAGACCGCATCACACGTTCTCACAGAGTTCCAAGACAAGCAGATCAAA  
 GACTGGAAGAAGCGCTTCATCGGCATACGGATGCGGACGATCACACCAAGCCTGGTGGATGAGCTGAAGG  
 CCAGAACCCGGACTTCCAGAGGTCAGCAGTGGAAATTTATGTGCAAGAGGTTGCGCCGAATTCACCTTC  
 TCAGAGAGGCGGCATCCAAGATGGTGACATCATGTCAGGTCAACGGGGCTCCTCTAGTGGACTCGAGT  
 GAGCTGCAGGAGCCGTGCTGACCGAGTCTCCTCTCTACTGGAGGTGCGCGGGGGAACGACGACCTCC  
 TCTTCAGCATCGCACCTGAGGTGGTCATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC207810 representing NM\_053044  
 Red=Cloning site Green=Tags(s)

MQARALLLAALALAREPPAAPPCPARCDVSRCPSPRCGGYVPDLNCCLVCAASEGEPGGPLDSPC  
 GESLECVRGLCRCRWHA VCGTDGHTYANVCALQAASRRALQLSGTPVRQLQKGACPLGLHQLSSPRYKF  
 NFIADVVEKIAPAVVHIELFLRHPLFGRNVPLSSGSGFIMSEAGLIITNAHVSSNSAAPGRQQLKVQLQ  
 NGDSYEATIKDIDKKSIDIATIKIHPKKLPVLLLGHSADLRPGEFVVAIGSPFALQNTVTTGIVSTAQRE  
 GRELGLRDSMDYIQTDIINYGNSGGPLVNLGDEVIGINTLKVTAGISFAIPSDRITRFLTEFQDKQIK  
 DWKKRFIGIRMRITITPSLVDELKASNPDPFPEVSSGIYVQEVAPNSPSQRGGIQDGDIIIVKVNRPPLVDSS  
 ELQEAVL TESPLLLEVRNGNDLLFSIAPEVVM

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mg3859\\_a09.zip](https://cdn.origene.com/chromatograms/mg3859_a09.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**

**ACCN:** NM\_053044

**ORF Size:** 1359 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

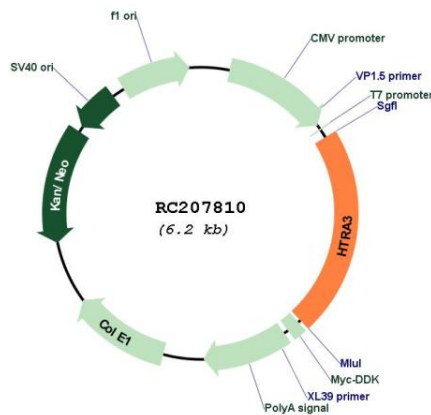
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:**
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\\_053044.5](#)  
**RefSeq Size:** 2585 bp  
**RefSeq ORF:** 1362 bp  
**Locus ID:** 94031  
**UniProt ID:** [P83110](#)  
**Cytogenetics:** 4p16.1  
**Domains:** IB, Tryp\_SPc, PDZ, kazal  
**Protein Families:** Druggable Genome, Protease, Secreted Protein  
**MW:** 48.4 kDa  
**Gene Summary:** Serine protease that cleaves beta-casein/CSN2 as well as several extracellular matrix (ECM) proteoglycans such as decorin/DCN, biglycan/BGN and fibronectin/FN1. Inhibits signaling mediated by TGF-beta family proteins possibly indirectly by degradation of these ECM proteoglycans (By similarity). May act as a tumor suppressor. Negatively regulates, in vitro, trophoblast invasion during placental development and may be involved in the development of the placenta in vivo. May also have a role in ovarian development, granulosa cell differentiation and luteinization (PubMed:21321049, PubMed:22229724).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RC207810