

Product datasheet for **RR216716**

Htra3 (NM_001271027) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Htra3 (NM_001271027) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Htra3
Synonyms:	RGD1308120
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR216716 representing NM_001271027
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGGCGCGCCCTACTCCCTGCCAGCTGGCCACGCTGGCCACGCTAGCTGTGTGGTCTCTGGCC
 GGGAGCCCCCGGCGCGCTTGTCTGCGCGCTGCGACGTGTGCGCGTGTCCGAGCCCTCGCTGCCCTGG
 GGGCTATGTGCCAGACCTCTGCAACTGCTGCTTGGTGTGCGCGCCAGCGAGGGTGAAGCCCTGCGGCCG
 CCCCTGGACTCGCCATGCGGGGACAGTCTGGAGTGCCTACGCGCGTGTGCCGCTGCCGTTGGACCCACA
 CGGTGTGTGGCACAGACGGGCACACATATGCCGACGTGTGCGCGTGCAGGCCGCCAGCCGTCGTGCGTT
 GCAGATCTCCGGGACTCCAGTGCGCCAGCTGCAGAAGGGTGCCTGCCCTCTGGTCTCCATCAGCTGACC
 AGTCCGCGGTACAAGTTCACCTTCATCGCCGATGTGGTGGAGAAGATCGCGCCAGCCGTTGCCATATAG
 AGCTCTTTCTGAGGCACCCTCTGTTGGCCGAAATGTGCCACTGTCCAGTGGCTCGGGCTTCATCATGTC
 AGAAGCCGGCTTGATCGTCACCAACGCCACGTGGTCTCCAGCTCCAACACCGCCTCAGGTGGCAGCAG
 CTGAAGGTGCAACTGCAGAATGGGGATGCTTATGAGGCCACCATCCAGGACATCGACAAGAAGTCAGACA
 TCGCCACCATCTTAATCCACCCCAAAAAAGTCCCCGTTACTGCTGGGTCACTCGGCAGACCTGCG
 GCCTGGCGAGTTTGTGGTGGCCATCGGCAGTCCCTTTGCCCTGCAAAACACCGTGACAACGGGCATCGTC
 AGCACTGCCAGCGGGATGGCAAGAGCTGGGCCTCCGGGATTCGGACATGGACTATATCCAGACAGACG
 CCATCATCAATTATGGGAACTCAGGAGGCCCTGGTGAACCTGGATGGTGGAGTTCATCGGCATCAACAC
 GCTCAAGTGGCGGCTGGTATCTCTTTGCCATCCCCTCGGATCGCATCACGCGTTCCTCTGAGTTC
 CAAGACAAGCATGTGAAAGACTGGAAGAAGCGCTTCATTGGCATCCGGATGCGGACCATCACGCCAAGTT
 TGGTGGAGAACTGAAGACTGCCAACCCAGATTTCCAGCAGTGCAGTGGAAATATATGTTCAAGAGGT
 CGTTCCTCAACTCACCTTCTCAGAGAGGAGGCATCCAAGATGGCGACATCATAGTCAAAGTCAATGGACGT
 CCCCTGGTAGATTCCAGTGCAGGAGCGGCTCTGAATGAGTCTCACTCCTGCTGGAGGTGCGGC
 GGGGAATGATGACTGCTCTTCAGCATCATGCCGAGGTGGTATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR216716 representing NM_001271027
 Red=Cloning site Green=Tags(s)

MQARALLPATLATLATLAVSVLAREPPAAPPCPARCDVSRCPSPRCPPGGYVPDLNCCLVCAASEGEPGCR
 PLDSPCGDSLECVRGVRCRWTHTVCGTDGHTYADVICALQAASRRALQISGTPVRQLQKACPSGLHQLT
 SPRYKFNFIADVVEKIAPAVVHIELFLRHPLFGRNVPLSSGSGFIMSEAGLIVTNAHVSSNTASGRQQ
 LKVQLQNGDAYEATIQDIDKSDIATILIHFNKLPVLLLGHASDLRPFGEFVVAIGSPFALQNTVTTGIV
 STAQRDQKELGLRDSMDYIQTDAIINYGNSSGPLVNLDEVIGINTLKVAAGISFAIPSDRITRFLSEF
 QDKHKDWWKRFIGIRMTITPSLVEELKTANPDFPAVSSGIYVQEVVNPSPSQRGGIQDGDIIIVKNR
 PLVDSSSELQEAVLNESSLLLEVRRGNDLLFSIMPEVVM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

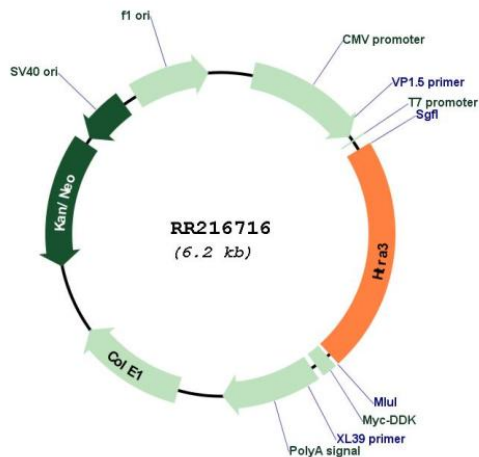
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001271027

ORF Size: 1377 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:

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_001271027.1](#), [NP_001257956.1](#)

RefSeq Size: 2440 bp

RefSeq ORF: 1380 bp

Locus ID: 360959

UniProt ID: [D3ZA76](#)

Cytogenetics: 14q21

MW: 49.3 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 (By similarity).[UniProtKB/Swiss-Prot Function]