

Product datasheet for **MC201064**

Htra1 (NM_019564) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Htra1 (NM_019564) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Htra1
Synonyms:	AI429470; HTRA; L56; Prss11; RSPP11
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC013516 sequence for NM_019564
 CCGACGCGTGGGGTCCAGCCCGTGGCCGTGGAGTCGTATGCAGTCCCTGCGTACCACGCTCCTGTCTT
 TGCTACTGCTGCTAGCGGCTCCTTCCCTGGCGTTGCCGTGGGGACCGGCCGCTCGGCCCCAGCTGC
 CACCGTCTGTCCCAGCACTGCCATCCCACCCGCTGCCGCCCGCCGCCACGGACTGCGAGGGTGGCCGC
 GTCCGCGACGCGTGGCGTGTGCGAGGTGTGCCGCGCGCTCGAGGGTGCAGCGTGGCCCTGCAGGAGG
 GTCCCTGCGGCGAGGGGCTGCAATGCGTAGTGCCCTTCGGGGTGGCCGCTCGGCCACAGTACGACGGCG
 CGCACAGCCGGCTGTGCGTGTGTGCCAGCAGCGAGCCGGTGTGTGGTAGCGACGCCAAGACCTACACC
 AACCTGTGCCAGCTGCGCGCCGCGAGCCCGCTCCGAGAAGCTTCGCCAGCCCGGTCATCGTCCCTGC
 AGCGCGCGCCTGCGGCCAAGGGCAGGAAGATCCAACAGTTTTCGTCATTAAGTACAACCTTTATTGCTGA
 TGTGGTGGAGAAGATCGCCCGGCTGTGGTTACATTGAACTATATCGCAAGCTTCTTTCTCGAAGAGG
 GAGGTGCCAGTGGCCAGTGGGTCAAGTTCATCGTATCGGAGGATGGACTGATTGTGACAAATGCTCACG
 TGGTCCACAAACAAAACCGGGTCAAGGTTGAGCTGAAGAATGGAGCTACCTATGAAGCCAAAATCAAGGA
 TGTGGATGAAAAGGCGGACATTGCGCTTATCAAGATTGACCACCAGGAAAGCTGCCAGTCTGCTGCTC
 GGCCGCTCCTCAGAGCTGAGACCTGGAGAATTTGAGTTGCCATTGGAAGCCCTTTTCTCTTCAAACA
 CAGTCACTACTGGATCGTCAGCACCCAGCGAGGCGGCAAAGAGCTGGGACTTCGGAACCTCCGATAT
 GGACTACATTAGACAGACGCTATCATCAATTATGGAAATTCGGAGGCCGTTAGTAAACCTGGATGGC
 GAGGTGATTGGGATTAACACCTTGAAGGTGACGGCGGGCATCTCCTTCGCAATCCATCCGATAAGATAA
 AAAAGTTCTTGACACAGTCCCACGATCGACAGGCCAAAGGGAAAGCTGTCAACGAAGAAGTATATTGG
 GATCCGAATGATGTCGCTCACATCTAGCAAAGCCAAAGAGCTGAAGGACCGTCCAGGACTTCCCGGAT
 GTGCTCTCTGGGGCATATATCATTGAAGTATTCTGACACCCCGGAGGAGCCGAGGGTCAAGGAAA
 ATGACGTCATCATCAGCATCAACGGACAGTCTGTGGTCACTGCCAATGACGTCAGCGATGTCATCAAAA
 GGAGAACACCTGAACATGGTTGTCGCGAGGGCAATGAAGACATTGTGATTACCGTATTCTGAAGAA
 ATCGACCCCTAGGCAGAGGCAGGAGCCAGACTTTCATGTTCCCTCAAAGACTCCAGGGGATGGCGCATGA
 GAACTGAGCTGGTGACGACAGCACCCCGGACCTTTGTCCAACATTTTGTGTTTTCAGGGAACCCCTG
 CCGACAGAATCCTTCTTATAGTTTGGCGGCAAAAACAAATGTAATGTTGAGGTGACAGGCAGAAGTCC
 TGCTTCTGTATGCTATGTATGCAGCGTCTTTTCTTACAAGCTTGGGCTGTTCTGCTTACACAGTCA
 ACATTTGTCCCTTCCCTAGCCTAAGTTGTCTGACTAATGCAGTTGACGGATGCGTAGGCAAGAGGAAGG
 TCCTCGCAGCCATGGTCTTGGCGTGTACACTTTTCTCCGAGTCGGCACTCAGAGGAATTTGATGCC
 CCGAGACCACAGGTGGGTGACCTGGCTTCTGAGATGGCCAAAATGCCTCTTAGGAATCCTGGAACCCG
 GAGTACAGTGACTTTGAGTTTTCAGTATTAATAACTTCTTCATACGTAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_019564

Insert Size: 1443 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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: [BC013516](#), [AAH13516](#)

RefSeq Size: 2023 bp

RefSeq ORF: 1443 bp

Locus ID: 56213

UniProt ID: [Q9R118](#)

Cytogenetics: 7 F3

Gene Summary: Serine protease with a variety of targets, including extracellular matrix proteins such as fibronectin. HTRA1-generated fibronectin fragments further induce synovial cells to up-regulate MMP1 and MMP3 production. May also degrade proteoglycans, such as aggrecan, decorin and fibromodulin. Through cleavage of proteoglycans, may release soluble FGF-glycosaminoglycan complexes that promote the range and intensity of FGF signals in the extracellular space. Regulates the availability of insulin-like growth factors (IGFs) by cleaving IGF-binding proteins. Inhibits signaling mediated by TGF-beta family members. This activity requires the integrity of the catalytic site, but it is unclear whether it leads to the proteolytic degradation of TGF-beta proteins themselves (PubMed:18551132) or not (PubMed:14973287). By acting on TGF-beta signaling, may regulate many physiological processes, including retinal angiogenesis and neuronal survival and maturation during development. Intracellularly, degrades TSC2, leading to the activation of TSC2 downstream targets.[UniProtKB/Swiss-Prot Function]