

## Product datasheet for **SC118403**

### **HTRA1 (NM\_002775) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	HTRA1 (NM_002775) Human Untagged Clone
Tag:	Tag Free
Symbol:	HTRA1
Synonyms:	ARMD7; CADASIL2; CARASIL; HtrA; L56; ORF480; PRSS11
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**Fully Sequenced ORF:**

```

>OriGene sequence for NM_002775 edited
GAATTCGGCACGAGGCTCCGGCCCTCGCCCTGTCCGCCGCCACCGCCGCCGCCAGAG
TCGCCATGCAGATCCCGCGCGCCGCTCTTCTCCCGCTGCTGCTGCTGCTGGCGGGCGC
CCGCCTCGGCGCAGCTGTCCCGGGCCGGCCGCTCGGCGCCTTTGGCTGCCGGTTGCCAG
ACCGCTGCGAGCCGGCGCGCTGCCCGCCGACCCGGAGCACTGCGAGGGCGGCCGGGCC
GGGACCGTGC GGCTGCTGCGAGGTGTGCGGCGCGCCGAGGGCGCCCGTGC GGCTGC
AGGAGGGCCCGTGC GGCGAGGGGCTGCAGTGC GTGGTGC CCTTCGGGGTGCCAGCCTCGG
CCACGGTGC GGCGCGCGCAGGCCGGCTCTGTGTGTGCCAGCAGCGAGCCGGTGT
GCGGCAGCGACGCCAACCTACGCCAACCTGTGCCAGCTGCGCGCCGCCAGCCGGCT
CCGAGAGGCTGCACCGGCCGCCGGTTCATCGTCTGACAGCGGGAGCTGCGGCCAAGGGC
AGGAAGATCCCAACAGTTTGGCCATAAATAACTTTATCGCGGACGTGGTGGAGAAGA
TCGCCCTGCCGTGGTTCATATCGAATTGTTTCGCAAGCTTCCGTTTTCTAAACGAGAGG
TGCCGGTGGCTAGTGGTCTGGGTTTATTGTGTCGGAAGATGGACTGATCGTGACAAATG
CCCACGTGGTGACCAACAAGCACCGGGTCAAAGTTGAGCTGAAGAACGGTGCCACTTACG
AAGCCAAAATCAAGGATGTGGATGAGAAAAGCAGACATCGCACTCATCAAATTGACCACC
AGGGCAAGCTGCCTGTCTGTGCTGGCCGCTCCTCAGAGCTGCGGCCGGGAGAGTTCCG
TGGTCCGCATCGGAAGCCGTTTTCCCTTCAAAACACAGTCACCACCGGGATCGTGAGCA
CCACCCAGCGAGGCGGCAAGAGCTGGGGCTCCGCAACTCAGACATGGACTACATCCAGA
CCGACGCCATCATCAACTATGAAAAGTCCGGAGGCCCGTTAGTAAACCTGGACGGTGAAG
TGATTGGAATTAACACTTTGAAAGTGACAGCTGGAATCTCCTTTGCAATCCCATCTGATA
AGATTA AAAAGTCTCACGGAGTCCCATGACCGACAGGCCAAAGGAAAAGCCATACCA
AGAAGAAGTATATTGGTATCCGAATGATGTCACCTCACGTCCAGCAAAGCCAAAGAGCTGA
AGGACCGGCACCGGGACTTCCCAGACGTGATCTCAGGAGCGTATATAATTGAAGTAATTC
CTGATACCCAGCAGAAGCTGGTGTCTCAAGGAAAACGACGTATAATCAGCATCAATG
GACAGTCCGTGGTCTCCGCCAATGATGTGACGACGTCATTAAGGAAAAGCACCTGA
ACATGGTGGTCCGCAGGGTAATGAAGATATCATGATCACAGTGATTCCCGAAGAAATTG
ACCCATAGGCAGAGGCATGAGCTGGACTTCATGTTTTCCCTCAAAGACTCTCCCGTGGATG
ACGGATGAGGACTCTGGGCTGCTGGAATAGGACACTCAAGACTTTTGACTGCCATTTTGT
TTGTTTCAGTGGAGACTCCCTGGCCAACAGAATCCTTCTTGATAGTTTGACGGCAAACAA
ATGTAATGTTGCAGATCCGCAGGCAGAAGCTCTGCCCTTCTGTATCCTATGTATGCAGTG
TGCTTTTTCTTGCCAGCTTGGGCCATTCTTGCTTAGACAGTCAGCATTTGTCTCCTCCTT
TAACTGAGTCATCATCTTAGTCCAACTAATGCAGTCGATACAATGCGTAGATAGAAGAAG
CCCCACGGGAGCCAGGATGGGACTGGTCTGTTTTGTGCTTTTCTCCAAGTCAGCACCCAA
AGGTCAATGCACAGAGACCCCGGGTGGGTGAGCGCTGGCTTCTCAAACGGCCGAAGTTGC
CTCTTTTAGGAATCTCTTTGGAATTGGGAGCACGATGACTCTGAGTTTGAGCTATTAAG
TACTTCTTACACATTGAAAAAAAAAAAAAAAAAACTCGAC
    
```

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_002775 unedited  
 CAGATTTTGAATACGACTCACTTATAGGGCGGCCGGAATCGGCACGAGGCTCCGGCCC  
 TCGCCCTGTCCGCGCCACCGCCGCCGCGCCAGAGTCGCCATGCAGATCCCAGCGCGCCG  
 CTCTTCTCCCGTGTCTGTCTGTCTGTGGCGCGCCCGCTCGGCGCAGCTGTCCCGGG  
 CCGGCCGCTCGGCGCCTTTGGCTGCCGGTTGCCAGACCCTGCGAGCCGGCGCGCTGCC  
 CGCCGACCCGGAGCACTGCGAGGGCGGCCGGCCCGGGACCGTGC GGCTGTGCGAGG  
 TGTGCGGCGCGCCCGAGGGCGCCGCGTGC GGCTGCAGGAGGGCCCGTGC GGCGAGGGGC  
 TGCAGTGC GTGGTCCCTTCGGGGTGCCAGCCTCGGCCACGGTGC GGCGCGCGCGCAGG  
 CCGGCCTCTGTGTGCGCCAGCAGCGAGCCGGTGTGCGGCAGCGACGCCAACACCTACG  
 CCAACCTGTGCCAGTGC GCGCCGCCAGCCGCGCTCCGAGAGGCTGCACCGCCGCCGG  
 TCATCGTCTGCAGCGCGGAGCCTGCGGCCAAGGGCAGGAAGATCCCAACAGTTTGC GCC  
 ATAATAATAACTTTATCGCGGACGTGGTGGAGAAGATCGCCCTGCCGTGGTTTCATATCG  
 AATTGTTTCGCAAGCTTCCGTTTTCTAACGAGAGGTGCCGGTGGCTAGTGGGTCTGGGT  
 TTATTGTGTCGGAAGATGGACTGATCGTGACANATGCCACGTGGTGACCAACAAGCACC  
 GGGTCAAAAGTGAGCTGAAGAACGGTGCCACTTACGAAGCCAAATCAAGGATGGGGATGA  
 GAAAGCAGACATCGCACTCATAAAATTACCACCCGGGGCAGCCTGCCTGTCTCTGCTGC  
 TTGGCCGCTCCTCAGAGCTGCGCCGGGAAGAATTCGTGTGCGCATCGGAAGACCTT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_002775 unedited  
 CTTTGGACCGCGGCCGCAATCTANGATCGAGTTTTTTTTTTTTTTTTTTTTAAATGTGTA  
 GAAGTACTTTAATAGCTCAAACCTCAGAGTCATCGTCTCCAATTCAAAAAGATTCTTA  
 AAAGAGGCAACTTCGGCCGTTTGAGAAGCCAGCGCTACCCACCCGGGGTCTCTGTGCAT  
 TGACCTTTGGGTGCTGACTTGGAGAAAAGCACAAACACGACCAGTCCCATCCTGGCTCCC  
 GTGGGGCTTCTTCTATCTACGCATTGTATCGACTGCATTAGTTGGACTAAGATGATGACT  
 CAGTTAAAGGAGGAGACAAATGCTGACTGTCTAAGCAAGAATGGCCCAAGCTGGCAAGAA  
 AAAGCACACTGCATACATAGGATACAGAAGGGCAGAGCTTCTGCCTGCGGATCTGCAACA  
 TTACATTTGTTTTGCCTGCAAATATCAAGAAGGATTCTGTTGGCCAGGGAGTCTCCACT  
 GAACAAACAAAATGGCAGTCAAAAGTCTTGAGTGCCTATTCCAGCAGCCAGAGTCCCT  
 ATCCGTCAACGGAAGAGTCTTTGAGGAAAACATGAAGTCCAGCTCATGCCTCTGCCT  
 ATGGGTCAATTTCTTCGGGAATCACTGGGATCATGATATCTTTATTACCCCTGCGACCA  
 CCATGTTCAAGGGTGCTTTCCCTTTTTAATGACGTCGCTTGACATTTCATTGCCGGAAGAC  
 CACGGGACTGTTCCATTGGATGCCTGATTATGACCGTCGTTTTCCCTTGAAACCCCCAC  
 TTTTTGCTTGGGGTATCAGGAATTTACTTCAATAATTTACCGCTTCTGGAGATCCCGNT  
 CGGGGAAAGTCCCGTTGGCCCGGCCCTTTAGCTTTTTTGTCTTTGGTGGACCGGAAG  
 GGACTTCATTTGGGATACCAAAAACCTTTTTTTGGGAAAGCTTTTCCCTTGGCGCCG  
 TGCGG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_002775

**Insert Size:**

2210 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:** [NM\\_002775.3](#), [NP\\_002766.1](#)

**RefSeq Size:** 2133 bp

**RefSeq ORF:** 1443 bp

**Locus ID:** 5654

**UniProt ID:** [Q92743](#)

**Cytogenetics:** 10q26.13

**Domains:** IB, Tryp\_SpC, PDZ, kazal

**Protein Families:** Druggable Genome, Protease, Secreted Protein

**Gene Summary:** This gene encodes a member of the trypsin family of serine proteases. This protein is a secreted enzyme that is proposed to regulate the availability of insulin-like growth factors (IGFs) by cleaving IGF-binding proteins. It has also been suggested to be a regulator of cell growth. Variations in the promoter region of this gene are the cause of susceptibility to age-related macular degeneration type 7. [provided by RefSeq, Jul 2008]