

## Product datasheet for **SC115347**

### HTRA2 (NM\_013247) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HTRA2 (NM_013247) Human Untagged Clone
Tag:	Tag Free
Symbol:	HTRA2
Synonyms:	MGCA8; OMI; PARK13; PRSS25
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC115347 sequence for NM\_013247 edited (data generated by NextGen Sequencing)

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ATGGCTGCGCCGAGGGCGGGGCGGGGTGCAGGCTGGAGCCTTCGGGCATGGCGGGCTTTG
GGGGGCATTTCGCTGGGGGAGGAGACCCCGTTTGACCCCTGACCTCCGGGCCCTGCTGACG
TCAGGAACTTCTGACCCCGGGCCGAGTGACTTATGGGACCCCACTCTCTGGGCCCGG
TTGTCTGTTGGGGTCACTGAACCCCGAGCATGCCTGACGTCTGGGACCCCGGGTCCCCGG
GCACAACTGACTGCGGTGACCCAGATACCAGGACCCGGGAGGCCCTCAGAGAACTCTGGA
ACCCGTTTCGCGCGCTGGCTGGCGGTGGCGCTGGGCGCTGGGGGGCAGTCTGTTGTTG
TTGTGGGGCGGGGTTCGGGTCCTCCGGCCGCTCCTCGCCGCCCTCCCTAGCCCGCGCCC
GCTTCTCCCGGAGTCACTACAACCTTCATCGCAGATGTGGTGGAGAAGACAGCACCTGCC
GTGGTCTATATCGAGATCCTGGACCGGCACCCCTTCTTGGGCCGCGAGGTCCTATCTCG
GACGGCTCAGGATTCGTGGTGGCTGCCGATGGGCTCATTGTACCAACGCCCATGTGGTG
GCTGATCGGGCAGAGTCCGTGTGAGACTGCTAAGCGGCACACGTATGAGGCCGTGGTC
ACAGCTGTGGATCCCGTGGCAGACATCGCAACGCTGAGGATTCAGACTAAGGAGCCTCTC
CCCACGCTGCCTCTGGGACGCTCAGCTGATGTCCGGCAAGGGGAGTTTGTGTTGCCATG
GGAAGTCCCTTTCGACTGCAGAACACGATCACATCCGGCATTGTTAGCTCTGCTCAGCGT
CCAGCCAGAGACCTGGGACTCCCCAAACCAATGTGGAATACATTCAAACCTGATGACGCT
ATTGATTTTGAAACTCTGGAGGTCCCCTGGTTAACCTGGATGGGGAGGTGATTGGAGTG
AACACCATGAAGTCCACAGCTGGAATCTCCTTGGCCATCCCTTCTGATCGTCTTCGAGAG
TTTCTGCATCGTGGGAAAGAAGAAATTCCTCCTCCGGAATCAGTGGGTCCCAGCGGGC
TACATTGGGGTGTGATGCTGACCCTGAGTCCCAGCATCCTTGTGAACTACAGCTTCGA
GAACCAAGCTTTCGGATGTTTCCAGCATGGTGTACTCATCCATAAAGTCATCCTGGGCTCC
CTTGACACCCGGGCTGGTCTGCGGCCTGGTGTGATGATTTTGGCCATTGGGGAGCAGATG
GTACAAAATGCTGAAGATGTTTATGAAGCTGTTTGAACCAATCCAGTTGGCAGTGCAG
ATCCGGCGGGGACGAGAAACTGACCTTATATGTGACCCTGAGGTCACAGAATGA
    
```

Clone variation with respect to NM\_013247.4

541 a=>g

**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_013247 unedited
CGCGGTATTTAGGTAACCCACGATTCACGGTNAGGGNCGGCACGCGCAATTCGGCACGAG
GGCGGGCAGGAGGCAGCCAAGGCGGAGCTGATGGCTGCGCCGAGGGCGGGGCGGGGTGC
AGGCTGGAGCCTTCGGGCATGGCGGGCTTTGGGGGGCATTTCGCTGGGGGAGGAGACCCCG
TTTGACCCCTGACCTCCGGGCCCTGCTGACGTCAAGAACTTTGTCCCCCGGGCCCGAGT
GACTTATGGGACCCCACTCTCTGGGCCCGTTGTCTGTTGGGGTCACTGAACCCCGAGC
ATGCCTGACGTCTGGGACCCCGGTCCCCGGGCACAACCTGACTGCGGTGACCCAGATAC
CAGGACCCGGGAGGCCCTCAGAGAACTCTGGAACCCGTTTCGCGCGCTGGCTGGCGGTGGC
GCTGGGGCCTGGGGGGCAGTGTGTTGTTGTTGTTGGGGCGGGGTTCGGGTCTCCGGC
CGTCTCGCCCGCTCCCTAGCCCGCGCCCGCTTCTCCCGGAGTCACTACAACCTTCAT
CGCAGATGTGGTGGAGAAGACAGCACCTGCCGTGGTCTATATCGAGATCCTGGACCGCA
CCCTTCTTGGGCCGCGAGGTCCTATCTCGGACGGCTCANGATTCTGTTGGTGGCTGCCGA
TGGGCTCATTGTACCAACGCCCATGTGGTGGCTGATCGGCGCAGAGTCCGTGTGAGACT
GCTAAGCGGCACACGTATGAGGCCGTGGTCACAGCTGTGGATCCCGTGGCAGACATCGC
AACGCTGAAGATTCAAATTAAGAGCCTCTNCCCAGCTGCCTCTGGGACGCTCAGCTGA
TGTCCCGCAAGGGGAGTTTGTGTTGCCCTGGGAAGTCTTTGCACTGCAGAACAGATCA
CATCCGGCAATGTAGCTCTGCTCACCGTCCAGCAGAGACCTGGGACTCCCCAACCAAGG
TGAATACATTCAACTGA
    
```

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_013247 unedited TTTGCGGCAATCCCGGGTTGATTTTCATTTTATAAAAAGTGTTTCTGTGCTTCTTCANAG CCCAGNAGTCAGTGTGGTGGTGGAGGGACCTGCCCCACTGGTTCATTTAACCCCTCTG TCTCGGTGCCCTCAGAACCTCAGCCAGAAAGGCAAGGAGGAAATCAGAGCAGGAGCCTCA TACTCTTGGTGATCTATTCTGTGACCTCAGGGGTACATATAAGGTCAGTGTCTTCT CGTCCCCGCCGGATCTGCACTGCCAACTGGGATTGGGTTCGAACAGCTTCATAAACATCT TCAGATTTTGTACCATCTGCTCCCAATGGCCAAAATCACATCACCAGGCCGACAGCA GCCCGGTGTGCAGGGGAGCCAGGATGACTTTATGGATGAGTACCCATGCTGAACATCG GAAAAGCTTGGTTCTCGAAGCTGTAGTTCAGCAAGGATGCTGGGACTCAGGGTCAGCATC ATCACCCCAATGTAGCGCGCTGGGACCCACTGATTCGGAGGAGGAATTCTTCTTTTCC CCACGATGCAGAACTCTCGAAGACGATCAGAATGGATGGCCAAGGAGATTCCAGCTGGG ACCTTCATGGTGTCACTCCAATCACCTCCCATCCAGGTTAACCCAGGGGACCTCCAAA GTTTCCAAAATCAATAGCTGGCTCCGTTTGAATGTATTCCACATTGGGCTGGGGGAATC CCAGTCCCTTGGCTGGACGCTGAGCAGAGCTAACAAATGCCCGAGGTAATCCGTTCCGGAA TTGCCTAGGGCTTCTTTGGAGCGAAAACCTCCCTTTGCCGGGCAATTATTTGAGCGT CCCTTAAGCCCCCGGGGGGCAGGCCTCTTAT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_013247
<b>Insert Size:</b>	1750 bp
<b>OTI Disclaimer:</b>	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).
<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>	<a href="#">NM_013247.4</a> , <a href="#">NP_037379.1</a>
<b>RefSeq Size:</b>	2550 bp
<b>RefSeq ORF:</b>	1377 bp
<b>Locus ID:</b>	27429
<b>UniProt ID:</b>	<a href="#">O43464</a>
<b>Cytogenetics:</b>	2p13.1
<b>Domains:</b>	Tryp_SPc, PDZ
<b>Protein Families:</b>	Druggable Genome, Protease, Transmembrane

**Protein Pathways:** Parkinson's disease

**Gene Summary:** This gene encodes a serine protease. The protein has been localized in the endoplasmic reticulum and interacts with an alternatively spliced form of mitogen-activated protein kinase 14. The protein has also been localized to the mitochondria with release to the cytosol following apoptotic stimulus. The protein is thought to induce apoptosis by binding the apoptosis inhibitory protein baculoviral IAP repeat-containing 4. Nuclear localization of this protein has also been observed. Alternate splicing of this gene results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Mar 2016]  
Transcript Variant: This variant (1) encodes the longer isoform (1).