

Product datasheet for SC306217

HTRA2 (NM_145074) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HTRA2 (NM_145074) Human Untagged Clone
Tag:	Tag Free
Symbol:	HTRA2
Synonyms:	MGCA8; OMI; PARK13; PRSS25
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC306217 representing NM_145074. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCTGCGCCGAGGGCGGGGCGGGGTGCAAGCTGGAGCCTTCGGGCATGGCGGGCTTTGGGGGGCATT
CGCTGGGGGAGGAGACCCCGTTTGACCCCTGACCTCCGGGCCCTGCTGACGTGAGGAACCTTGACCC
CGGGCCCGAGTGACTTATGGGACCCCACTCTGGGCCCGTGTCTGTTGGGGTCACTGAACCCCGA
GCATGCCTGACGTCTGGGACCCCGGTCCCGGGCACAACCTGACTGCGGTGACCCAGATACCAGGACC
CGGGAGGCTCAGAGAACTCTGGAACCCGTTCCGCGCGCTGGCTGGCGGTGGCGTGGGGCTGGGGG
GCAGTGTGTTGTTGTTGGGGCGGGGTGCGGGTCTCCGGCCGTCTCGCCCGCTCCCTAGCCCG
CCGCCCGCTTCTCCCGGAGTCAGTACAACCTTCATCGCAGATGTGGTGGAGAAGACAGCACCTGCCGTG
GTCTATATCGAGATCCTGGACCGCACCCCTTTCTGGGCCGCGAGGTCCCTATCTCGAACGGCTCAGGA
TTCGTGGTGGCTGCCGATGGGCTCATTGTACCAACGCCCATGTGGTGGCTGATCGGCGCAGAGTCCGT
GTGAGACTGCTAAGCGGCGACACGTATGAGGCCGTGGTACAGCTGTGGATCCCGTGGCAGACATCGCA
ACGCTGAGGATTCAGACTAAGTTTGAAACTCTGGAGTCCCCTGGTTAACCTGGATGGGGAGGTGATT
GGAGTGAACACCATGAAGTCCACAGCTGGAATCTCCTTGCCATCCCTTCTGATCGTCTTCGAGAGTTT
CTGCATCGTGGGAAAAGAAGAATTCCTCCTCCGAATCAGTGGTCCCAGCGGCGCTACATTGGGGTG
ATGATGCTGACCCTGAGTCCCAGGCTGGTCTGCGGCTGGTGTGATGATTTTGGCATTGGGGAGCAG
ATGGTACAAAATGCTGAAGATGTTTATGAAGCTGTTTGAACCAATCCAGTTGGCAGTGCAGATCCGG
CGGGGACGAGAAACACTGACCTTATATGTGACCCCTGAGGTCACAGAAATGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

Plasmid Map: □



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ACCN:	NM_145074
Insert Size:	1086 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none"> 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:	<u>NM_145074.2</u>
RefSeq Size:	2259 bp
RefSeq ORF:	1086 bp
Locus ID:	27429
UniProt ID:	<u>O43464</u>
Cytogenetics:	2p13.1
Domains:	PDZ
Protein Families:	Druggable Genome, Protease, Transmembrane
Protein Pathways:	Parkinson's disease
MW:	38.5 kDa

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 (2) lacks two in-frame exons in the coding region, compared to variant 1. The encoded isoform (2) is shorter than isoform 1 and has a modified PDZ domain. Isoform 2 has no detectable protease activity.