

Product datasheet for RC222206

HTRA2 (NM_145074) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HTRA2 (NM_145074) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HTRA2
Synonyms:	MGCA8; OMI; PARK13; PRSS25
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC222206 representing NM_145074 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGCGCCGAGGGCGGGGGGGTGCAGGCTGGAGCCTTCGGGCATGGCGGGCTTTGGGGGCATTC
GCTGGGGGAGGAGACCCCGTTTGACCCCTGACCTCCGGGCCCTGCTGACGTCAGGAATTCTGACCCCG
GGCCCGAGTGACTTATGGGACCCCGAGTCTCTGGGCCCGTTGTCTGTTGGGTCACTGAACCCGAGCA
TGCTGACGCTCTGGACCCCGGGTCCCGGGCACAACCTGACTGCGGTGACCCAGATAACCAGACCCGGG
AGGCCTCAGAGAACTCTGGAACCCGTTCCGCGCGTGGCTGGCGGTGGCGCTGGGGGGCAGT
GCTGTTGTTGTTGTGGGGCGGGGTGGGGTCCCTCCGGCCGTCCTCGCCCGCTCCCTAGCCCGCCGCC
GCTTCTCCCCGGAGTCAGTACAACCTCATCGCAGATGTGGTGGAGAAGACAGCACCTGCCGTGGTCTATA
TCGAGATCCTGGACCCGACCCCTTCTTGGGCCGAGGTCCCTATCTCGAACCGCTCAGGATTCGTGGT
GGCTGCCGATGGGCTCATTGTCACCAACGCCCATGTGGTGGTGATCGGCGCAGAGTCCGTGTGAGACTG
CTAAGCGGCGACACGTATGAGGCCGTGGTCACAGCTGTGGATCCCGTGGCAGACATCGAACCGCTGAGGA
TTCAGACTAAGTTTGAAACTCTGGAGGTCCCTGGTTAACCTGGATGGGGAGGTGATTGGAGTGAACAC
CATGAAGTACAGCTGGAATCTCCTTGGCCATCCCTTCTGATCGTCTTCGAGAGTTTCTGCATCGTGGG
GAAAAGAAGAATTCTCCTCCGAATCAGTGGTCCCAGCGCGCTACATTGGGGTATGATGCTGACCC
TGAGTCCCAGGGCTGGTCTGCGGCCTGGTGTGATGTGATTTGGCCATTGGGGAGCAGATGGTACAAAATGC
TGAAGATGTTTATGAAGCTGTTCAACCAATCCAGTTGGCAGTGCAGATCCGGCGGGGACGAGAAACA
CTGACCTTATATGTGACCCCTGAGGTACAGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC222206 representing NM_145074
Red=Cloning site Green=Tags(s)

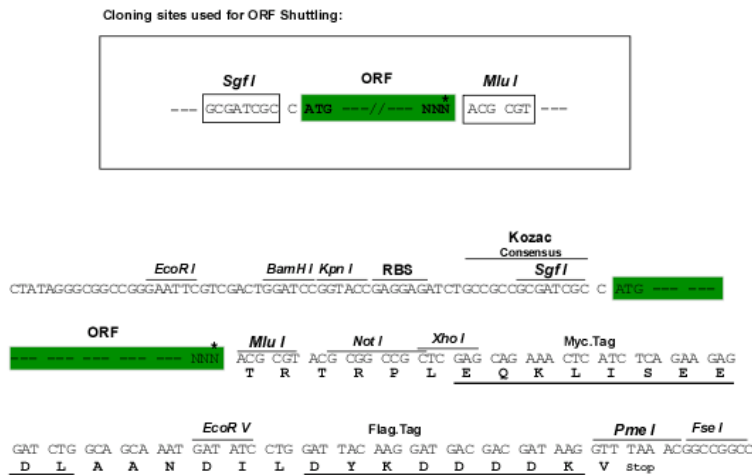
MAAPRAGRAGWSLRAWRALGGIRWGRPRRLTPDLRALLTSGTSDPRARVTYGTPSLWARLSVGVTEPRA
 CLTSGTPGPRAQLTAVTPDTRTREASENSGTRSRAWLAVALGAGGAVLLLLWGGGRGPPAVLAAVPSPPP
 ASPRSQYNFIADVVEKTAPAVVYIEILDRHPFLGREVPI SNGSGFVVAADGLIVTNAHVVADRRRVRVRL
 LSGDTYEAVVTAVDPVADIATLRIQT KFGNSGGPLVNL DGEVIGVNTMKV TAGISFAIPSDRLREFLHRG
 EKKNSSSGISGSQRRYIGVMMLT LSPRAGLRPGDVILAIGE QMVQNAEDVYEAVRTQSQLAVQIRRGRET
 LTLVYVTEVTE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8054_g03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_145074

ORF Size: 1083 bp

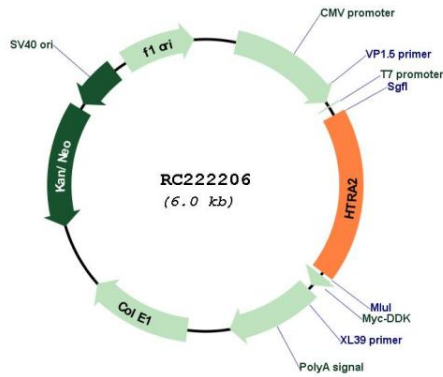
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

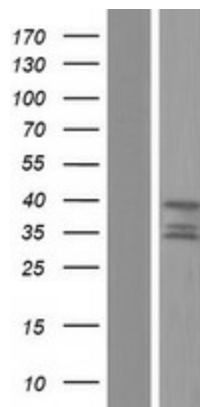
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<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, NP_659540.1</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:	38.3 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]

Product images:



Circular map for RC222206



Western blot validation of overexpression lysate (Cat# [LY408049]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222206 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).