

Product datasheet for **RG200183**

HTRA2 (NM_013247) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HTRA2 (NM_013247) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HTRA2
Synonyms:	MGCA8; OMI; PARK13; PRSS25
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG200183 representing NM_013247
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGCGCCGAGGGCGGGCGGGGTGCAGGCTGGAGCCTTCGGGCATGGCGGGCTTTGGGGGCATTC
 GCTGGGGGAGGAGACCCGTTTGACCCCTGACCTCCGGGCCCTGCTGACGTGAGGAACCTTGACCCCG
 GGCCCGAGTGACTTATGGGACCCCACTCTCTGGGCCCGTTGTCTGTTGGGGTCACTGAACCCCGAGCA
 TGCTGACGTCTGGGACCCCGGTCCCCGGGCACAACACTGACTGCGGTGACCCAGATACCAGGACCCGGG
 AGGCCTCAGAGAACTCTGGAACCCGTTCCGCGCGTGGCTGGCGGTGGCCTGGGCGCTGGGGGGCAGT
 GCTGTTGTTGTTGGGGCGGGGTCCGGGTCTCCGGCCGTCCTCGCCCGCTCCCTAGCCCGCCGCC
 GCTTCTCCCGGAGTCAGTACAACCTTCATCGCAGATGTGGTGGAGAAGACAGCACCTGCCGTGGTCTATA
 TCGAGATCCTGGACCCGACCCCTTCTGGGCCGCGAGGTCCTATCTCGAACGGCTCAGGATTCGTGGT
 GGCTGCCGATGGGCTCATTGTACCAACGCCCATGTGGTGGCTGATCGGCGCAGAGTCCGTGTGAGACTG
 CTAAAGCGCGACAGTATGAGGCCGTGGTACAGCTGTGGATCCCGTGGCAGACATCGCAACCGCTGAGGA
 TTCAGACTAAGGAGCCTCTCCCCACGCTGCCTCTGGGACGCTCAGCTGATGTCGGCAAGGGGAGTTTGT
 TGTGGCATGGGAAGTCCCTTTGCACTGCAGAACACGATCACATCCGGCATTGTTAGCTCTGCTCAGCGT
 CCAGCCAGAGACCTGGGACTCCCCAAACCAATGTGGAATACATCAAACCTGATGCGACTATTGATTTTG
 GAAACTCTGGAGGTCCCCTGGTTAACCTGGATGGGGAGGTGATTGGAGTGAACACCATGAAGGTCACAGC
 TGGAACTCCTTTGCCATCCCTTCTGATCGTCTTCGAGAGTTTCTGCATCGTGGGAAAAGAAGAATTCC
 TCCTCCGGAATCAGTGGTCCCAGCGGCCTACATTGGGGTATGATGCTGACCCGAGTCCCAGCATCC
 TTGCTGAACACAGCTTCGAGAACCAAGCTTTCCCGATGTTGAGCATGGTGTACTCATCCATAAAGTCAT
 CCTGGGCTCCCTGCACACCCGGGCTGGTCTGCGGCCTGGTGTGATGATTTTGGCCATTGGGGAGCAGATG
 GTACAAAATGCTGAAGATGTTTATGAAGCTGTTGAAACCAATCCAGTTGGCAGTGCAGATCCGGCGGG
 GACGAGAAACACTGACCTTATATGTGACCCCTGAGGTCACAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG200183 representing NM_013247
 Red=Cloning site Green=Tags(s)

MAAPRAGRAGWSLRAWRALGGIRWRRPRLTPDLRALLTSGTS DPRARVYGTPSLWARLSVGVTEPRA
 CLTSGTPGPRAQLTAVTPDTRTREASENSGTRSRAWLAVALGAGGAVLLLLWGGGRGPPAVLAAVPSPPP
 ASPRSQYNFIAADVVEKTAPAVVYIEILDRHPFLGREVPISNGSGFVVAADGLIVTNAHVVADRRRVRVRL
 LSGDTYEAVVTAVDPVADIATLRIQTKEPLPTLPLGRSADVRQGEFVVMGSPFALQNTITSGIVSSAQR
 PARDLGLPQTNVEYIQTDAIDFGNSGGPLVNL DGEVIGVNTMKVTAGISFAIPSDRLREFLHRGEKKNS
 SSGISGSQRRYIGVMMLT LSPSILAELQLREPSFPDVQHGVLIHKVILGSPAHRAGLRPGDVILAIGEQM
 VQNAEDVYEAVRTQSQLAVQIRRGRETLLTYVTPEVTE

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_013247

ORF Size: 1374 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:

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_013247.5](#)

RefSeq Size: 2550 bp

RefSeq ORF: 1377 bp

Locus ID: 27429

UniProt ID: [O43464](#)

Cytogenetics: 2p13.1

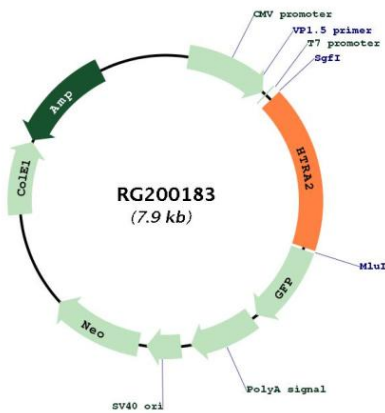
Domains: Tryp_SPc, PDZ

Protein Families: 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]

Product images:



Circular map for RG200183