

## Specifications:

|                |                  |
|----------------|------------------|
| Gene:          | hHTRA2           |
| Accession:     | NP_037379.1      |
| Insert size:   | 1390bp           |
| Concentration: | 10µg at 0.2µg/µL |

## Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

## Preparation and Storage

|             |                                                                     |
|-------------|---------------------------------------------------------------------|
| Formulation | cDNA is provided in 10 mM Tris-Cl, pH 8.5                           |
| Shipping    | Ships at ambient temperature                                        |
| Stability   | 1 year from date of receipt when stored at -20°C to -80°C           |
| Storage     | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. |

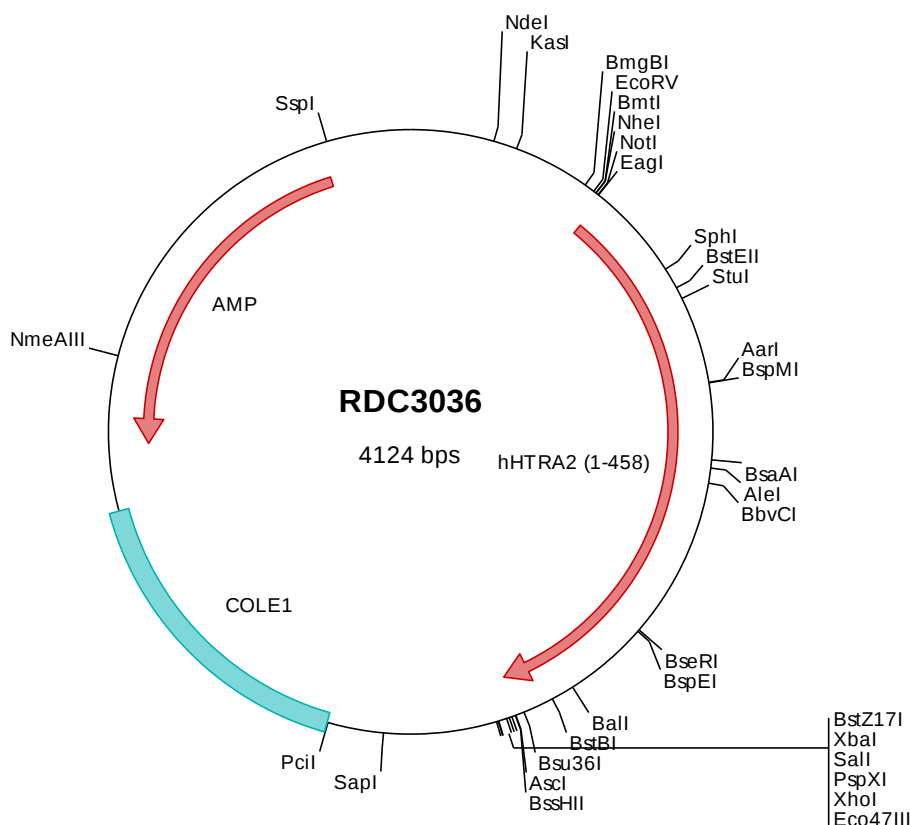
## hHTRA2/Omi cDNA Plasmid

**HTRA2 HtrA serine peptidase 2**  
[ *Homo sapiens* (human) ]

**Also known as:** OMI; MGCA8;  
PARK13; PRSS25

### Summary:

HTRA2 is a serine protease. It is localized in the endoplasmic reticulum and interacts with an alternatively spliced form of mitogen-activated protein kinase 14. It is also localized to the mitochondria with release to the cytosol following apoptotic stimulus. HTRA2 is thought to induce apoptosis by binding the apoptosis inhibitory protein baculoviral IAP repeat-containing 4. Nuclear localization of HTRA2 has also been observed. Alternatively spliced transcripts encoding different proteins have been described.



## > RDC3036 Plasmid DNA Sequence

```

1   tcgcgcgcttt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacgggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcagggcgcg tcagcgggtg ttggcgggtg tccgggctgg ctttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
301  tacgccagctt ggcgaaaggg ggaatgtctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagctt ggaaccgata tcgctagcgc ggccggcaacc atggctgcac cttagagctgg tcgaggtgca ggtcggagcc ttccggcatg
501  gogtgccttta ggaggtatct gttggggtag aagacotcgt ttgacccctg acctccgggc cctgtgcagc tcaggaaactt ctgacccccg gcccgagtg
601  acttatggga cccccagttc ctgggcccgg ttgtctgttg ggttcaactg acccccgagca tgctgaactg ctgggacccc ggttccccgg gcacaactga
701  ctgcgggtgac cccagatacc aggaaccggg aggcctcaga gaactctgga acccgttcac gagcttggct tgcagtagca cttggagctg gtggacagtg
801  actattgttta ttatggggag gtggtcgagg tctccagctg ttaactagct cagttccatg ccgcgcggcc gcttctcccc ggagtcagta caacttcatc
901  gcagatgtgg tggagaagac agcacctgcc gtggtctata tcgagatcct ggacggcgac cctttcttgg gcgcgaggtt ccttatctcg aacggtctag
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1901 tggatcatagc tgtttctgtg gtgaaattgt tatccgctca caattccaca caacatacga gccggaagca taaagtgtaa agcctggggt gcctaattag
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2201 gtaatacgtt tatccacaga atcaggggat aacgcaggaa agcaaacggc agcaaaaagg ccagcaaaag ccaggaacccg taaaaaggcc cggttctctg
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4001 tagaaaaata aacaaatagg ggttccgcgc acatttcccc gaaaagtgc acctgacgct taagaaacca ttattatcat gacattaacc tataaaaaa
4101 ggcgtatcac gaggcccttt cgtc

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## > RDC3036 Translated Insert Sequence

```

1   maapragrga gwsrlawral ggirwgrrrp ltpdlrallt sgtsdprarv tygtpslwar lsvgvtepra cltsgtpgpr aqltavtpdt rtreasensg
101  trsrawlava lgaggavlll lwgggrgppa vlaavpsppp asprsqynfi advvektapa vvyieildrh pflgrevpis ngsgfvvaad glivtnahvv
201  adrrrrrvrl lsgdtyeavv tavdpvadia tlriqtkepl ptlplgrsad vrggefvmam gspfalqnti tsgivssaqr pardlglpqt nveyiqtdaa
301  idfgnsggpl vnldgevigv ntmkvtagis faipsdrlre flhrgekkn ssgisgsqrr yigvmmllts psilaelqlr epsfpdvqhg vlihkivilgs
401  pahraglrpg dvilaieqem vqnaedyeya vrtqsqlavq irrretlrl yvtpevte

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