

Product datasheet for **RC209174**

HTRA4 (NM_153692) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HTRA4 (NM_153692) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HTRA4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC209174 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGATTAGACCTCAGCTGCGGACCGGGGCTGGGACGATGCCTCCTGCCGGGGCTGCTGCTGCTCCTGG
 TGCCCGTCTCTGGGCCGGGGCTGAAAAGCTACATACCCAGCCCTCCTGCCCCGGGTCTGCCAGCCCAC
 GCGCTGCCCGCGCTGCCACCTGCGCGCTGGGGACCACGCCGGTGTTCGACCTGTGCCGCTGTTGCCGC
 GTCTGCCCGCGGCCGAGCGTGAAGTCTGCGGGGGCGCAGGGCCAACCGTGCGCCCCGGGGCTGCAGT
 GCCTCCAGCCGCTGCGCCCCGGGTTCCCCAGCACCTGCGGTTGCCCGACGCTGGGAGGGGCCGTGTGCGG
 CAGCGACAGGCGCACCTACCCAGCATGTGCGCGCTCCGGGCCGAAAACCGCGCCGCGCGCCGCTGGGC
 AAGGTCCCGGCCGTGCCTGTGCAGTGGGGAACTGCGGGGATACAGGGACCAGAAGCGCAGGCCCGCTCA
 GGAGGAATTAACTTCATCGCCCGGTGGTGGAGAAGTGGCGCCATCGGTGGTTCACGTGCAGCTGTG
 GGGCAGGTTACTTCACGCGACGAGGCTTGTTCCTGTGTACAGTGGCTCTGGGTTCATAGTGTCTGAGGAC
 GGGCTCATTATTACCAATGCCCATGTTGTGAGGAACCAGCAGTGGATTGAGGTGGTGTCTCCAGAATGGGG
 CCCGTTATGAAGCTGTTGTCAAGGATATTGACCTAAATTGGATCTTGCGGTGATTAAGATTGAATCAAA
 TGCTGAACTTCTGTACTGATGCTGGGAAGATCATCTGACCTTCGGGCTGGAGAGTTTGTGGTGGCTTTG
 GGCAGCCCATTTCTCTGCAGAACACAGCTACTGCAGGAATTGTCAGCACCAAACAGCGAGGGGGCAAAAG
 AACTGGGGATGAAGGATTCAGATATGGACTACGTCCAGATTGATGCCACAATTAATAATGGGAATTCTGG
 TGGTCTCTGGTGAAGTGGATGGTGTGATGATTGGCGTCAATTCATTGAGGGTGACTGATGGAATCTCC
 TTTGCAATTCCTCAGATCGAGTTAGGCAGTCTTGGCAGAATACCATGAGCACCAGATGAAGGAAAGG
 CGTTTTCAAATAAGAAATATCTGGGCTGCAAAATGCTGTCCCTCACTGTGCCCTTAGTGAAGAATTGAA
 AATGCATTATCCAGATTTCCCTGATGTGAGTCTGGGGTTTATGTATGTAAGTGTGTTGAAGGAACAGT
 GCTCAAAGCTCTGGATTGAGAGATCACGATGTAATTGTCAACATAAATGGGAAACCTATTACTACTACAA
 CTGATGTTGTTAAAGCTCTTGACAGTATTCCCTTTCCATGGCTGTTCTTCGGGGAAAAGATAATTTGCT
 CCTGACAGTCATACCTGAAACAATCAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC209174 protein sequence
 Red=Cloning site Green=Tags(s)

MIRPQLRTAGLGRCLLPGLLLLLVPVLWAGAEKLTQPSPAVCQPTRCPALPTCALGTTTPVFDLCRCCR
 VCPAAEREVCGGAQGPCAPGLQCLQPLRPGFPSTCGCPTLGGAVCGSDRRTYPSMCALRAENRAARRLG
 KVPAPVQWGNCGDTGTRSAGPLRRNYNFAAVVEKVAPSVVHVQLWGRLLHGSRLVPVYSGSGFIVSED
 GLIITNAHVVRNQWIEVVLQNGARYEAVVKDIDLKLDLAVIKIESNAELPVLMLGRSSDLRAGEFVVAL
 GSPFSLQNTATAGIVSTKQGGKELGMKDSMDYVQIDATINYGNSGGPLVNLGDVIGVNSLRVTDGIS
 FAIPSDRVRFQFLAEYHEHQMKGKAFSNKKYLGQLSLTVPLSEELKMHYPDFPDVSSGVYVCKVFEGTA
 AQSSGLRDHDVIVNINGKPITTTTDVVKALDSDSLSMAVLRGKDNLLLTVIPETIN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6269_e03.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_153692

ORF Size: 1428 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_153692.4](#)
RefSeq Size: 2130 bp

RefSeq ORF: 1431 bp

Locus ID: 203100

UniProt ID: [P83105](#)

Cytogenetics: 8p11.22

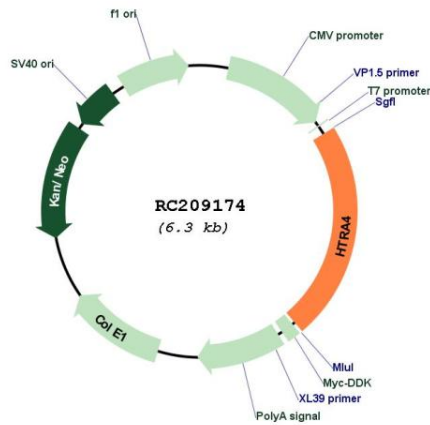
Domains: Tryp_SPc, PDZ, kazal

Protein Families: Druggable Genome, Protease, Transmembrane

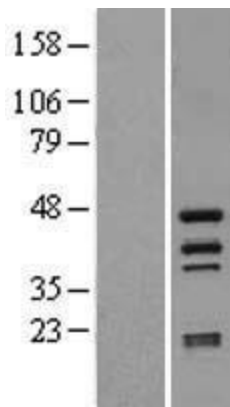
MW: 51 kDa

Gene Summary: This gene encodes a member of the HtrA family of proteases. The encoded protein contains a putative signal peptide, an insulin growth factor binding domain, a Kazal protease inhibitor domain, a conserved trypsin domain and a PDZ domain. Based on studies on other related family members, this enzyme may function as a secreted oligomeric chaperone protease to degrade misfolded secretory proteins. Other human HtrA proteins have been implicated in arthritis, tumor suppression, unfolded stress response, apoptosis, and aging. [provided by RefSeq, Oct 2008]

Product images:



Circular map for RC209174



Western blot validation of overexpression lysate (Cat# [LY406933]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209174 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).