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Product datasheet for RC222362

HTRA1 (NM_002775) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	HTRA1
Synonyms:	ARMD7; CADASIL2; CARASIL; HtrA; L56; ORF480; PRSS11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC222362 representing NM_002775
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGATCCCGCGCGCCGCTCTTCTCCCGCTGCTGCTGCTGCTGGCGGCGCCCGCCTCGGCGCAGC
TGTCCCGGGCCGGCCGCTCGGCGCCTTTGGCTGCCGGTTGCCCAGACCGCTGCGAGCCGGCGCGCTGCCC
GCCGCAGCCGGAGCACTGCGAGGGCGGCCGGGCCCGGGACGCGTGCGGCTGCTGCGAGGTGTGCGGCGCG
CCCGAGGGCGCCGCGTGCGGCCTGCAGGAGGGCCCGTGCGGCGAGGGGCTGCAGTGCGTGGTGCCCTTCG
GGGTGCCAGCCTCGGCCACGGTGCGGCGGCGCGCGCAGGCCGGCCTCTGTGTGTGCGCCAGCAGCGAGCC
GGTGTGCGGCAGCGACGCCAACACCTACGCCAACCTGTGCCAGCTGCGCGCCGCCAGCCGCCGCTCCGAG
AGGCTGCACCGGCCGCCGGTCATCGTCCTGCAGCGCGGAGCCTGCGGCCAAGGGCAGGAAGATCCCAACA
GTTTGCGCCATAAATATAACTTTATCGCGGACGTGGTGGAGAAGATCGCCCCTGCCGTGGTTCATATCGA
ATTGTTTCGCAAGCTTCCGTTTTCTAAACGAGAGGTGCCGGTGGCTAGTGGGTCTGGGTTTATTGTGTCG
GAAGATGGACTGATCGTGACAAATGCCCACGTGGTGACCAACAAGCACCGGGTCAAAGTTGAGCTGAAGA
ACGGTGCCACTTACGAAGCCAAAATCAAGGATGTGGATGAGAAAGCAGACATCGCACTCATCAAAATTGA
CCACCAGGGCAAGCTGCCTGTCCTGCTGCTTGGCCGCTCCTCAGAGCTGCGGCCGGGAGAGTTCGTGGTC
GCCATCGGAAGCCCGTTTTCCCTTCAAAACACAGTCACCACCGGGATCGTGAGCACCACCCAGCGAGGCG
GCAAAGAGCTGGGGCTCCGCAACTCAGACATGGACTACATCCAGACCGACGCCATCATCAACTATGGAAA
CTCGGGAGGCCCGTTAGTAAACCTGGACGGTGAAGTGATTGGAATTAACACTTTGAAAGTGACAGCTGGA
ATCTCCTTTGCAATCCCATCTGATAAGATTAAAAAGTTCCTCACGGAGTCCCATGACCGACAGGCCAAAG
GAAAAGCCATCACCAAGAAGAAGTATATTGGTATCCGAATGATGTCACTCACGTCCAGCAAAGCCAAAGA
GCTGAAGGACCGGCACCGGGACTTCCCAGACGTGATCTCAGGAGCGTATATAATTGAAGTAATTCCTGAT
ACCCCAGCAGAAGCTGGTGGTCTCAAGGAAAACGACGTCATAATCAGCATCAATGGACAGTCCGTGGTCT
CCGCCAATGATGTCAGCGACGTCATTAAAAGGGAAAGCACCCTGAACATGGTGGTCCGCAGGGGTAATGA
AGATATCATGATCACAGTGATTCCCGAAGAAATTGACCCA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>Peptide sequence encoded by RC222362
Blue=ORF Red=Cloning site Green=Tag(s)

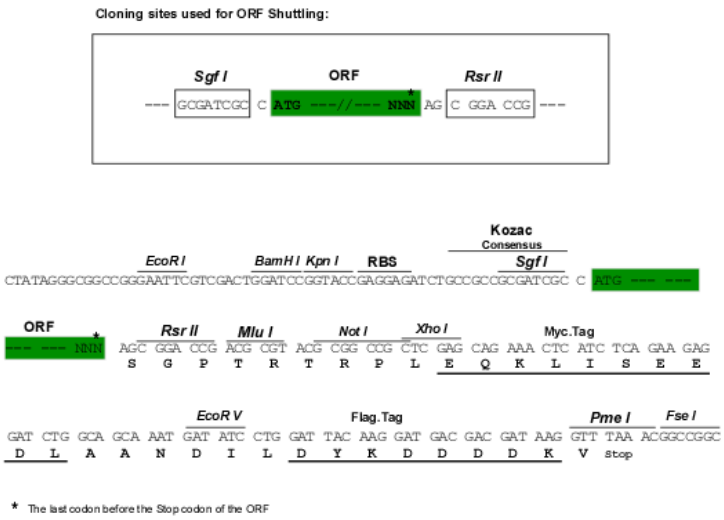
MQIPRAALLPLLLLLLAAPASAQLSRAGRSAPLAAGCPDRCEPARCPPQPEHCEGGRARDACGCCEVCG
APEGAACGLQEGPCGEGLQCVVPFGVPASATVRRRAQAGLCVCASSEPVCGSDANTYANLCQLRAASRR
SERLHRPPVIVLQRGACGQGQEDPNSLRHKYNFIADVVEKIAPAVVHIELFRKLPFSKREVPVASGSGF
IVSEDGLIVTNAHVVTNKHRVKVELKNGATYEAKIKDVDEKADIALIKIDHQGKLPVLLLGRSSELRPG
EFVVAIGSPFSLQNTVTTGIVSTTQRGGKELGLRNSDMDYIQTDAIINYGNSGGPLVNLDGEVIGINTL
KVTAGISFAIPSDKIKKFLTESHDRQAKGKAITKKKYIGIRMMSLTSSKAKELKDRHRDFPDVISGAYI
IEVIPDTPAEAGGLKENDVIISINGQSVVSANDVSDVIKRESTLNMVVRRGNEDIMITVIPEEIDP

Recombinant protein using RC222362 also available, TP322362

Chromatograms: https://cdn.origene.com/chromatograms/mk6190_d12.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_002775

ORF Size: 1440 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_002775.3, NP_002766.1

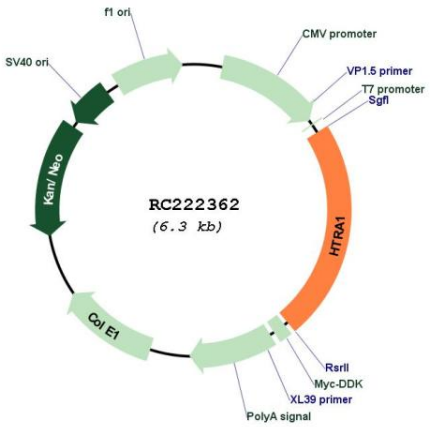
RefSeq Size: 2133 bp

RefSeq ORF: 1443 bp

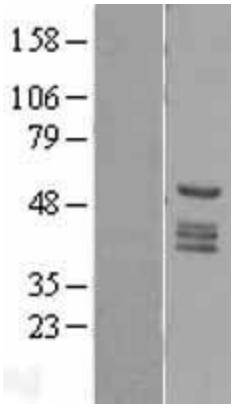
Locus ID: 5654

UniProt ID:	Q92743
Cytogenetics:	10q26.13
Domains:	IB, Tryp_SPc, PDZ, kazal
Protein Families:	Druggable Genome, Protease, Secreted Protein
MW:	51.3 kDa
Gene Summary:	This gene encodes a member of the trypsin family of serine proteases. This protein is a secreted enzyme that is proposed to regulate the availability of insulin-like growth factors (IGFs) by cleaving IGF-binding proteins. It has also been suggested to be a regulator of cell growth. Variations in the promoter region of this gene are the cause of susceptibility to age-related macular degeneration type 7. [provided by RefSeq, Jul 2008]

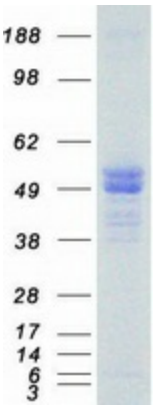
Product images:



Circular map for RC222362



Western blot validation of overexpression lysate (Cat# [LY400983]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222362 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HTRA1 protein (Cat# [TP322362]). The protein was produced from HEK293T cells transfected with HTRA1 cDNA clone (Cat# RC222362) using MegaTran 2.0 (Cat# [TT210002]).