

Product datasheet for **RG237693**

HTRA3 (NM_001297559) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HTRA3 (NM_001297559) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HTRA3
Synonyms:	Prsp; Tasp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237693 representing NM_001297559. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCAGGCGCGAGCGCTGCTCCTGGCCGCGTTGGCCGCGCTGGCGCTGGCCCGGGAGCCCTGCGGGC
CCGTGTCCCGCGCGCTGCGACGTGTCGCGGTGTCCAGCCCCGCTGCCCGGGCGCTACGTGCCCGAC
CTCTGCAACTGCTGCCTGGTGTGCGCCGCCAGCGAGGGCGAGCCCTGTGGCGCCCTCTGGACTCGCCT
TGCGGGGAGAGCCTGGAGTGCCTGCGCGCCATGCCGCTGCCGCTGGTGCACGCCGTGTGGCACC
GACGGGCACACCTATGCCAACGTGTGCGCGCTGCAGGCGGCCAGCCGCCGCGCTGCAGCTCTCCGGG
ACGCCCGTGCAGCTGCAGAAGGGCGCCTGCCCGTTGGGTCTCCACCAGCTGAGCAGCCCGCGCTAC
AAGTTCAACTTCATTGCTGACGTGGTGGAGAAGATCGCACCAGCCGTGGTCCACATAGAGCTCTTCTG
AGACACCCGCTGTTTGGCCGCAACGTGCCCTGTCCAGCGGTTCTGGCTTCATCATGTGAGAGGCCGGC
CTGATCATCACCAATGCCACGTGGTGTCCAGCAACAGTGTGCCCGGGCAGGCAGCAGCTCAAGGTG
CAGCTACAGAATGGGGACTCCTATGAGGCCACCATCAAAGACATCGACAAGAAGTCGGACATTGCCACC
ATCAAGATCCATCCCAAGAAAAGCTCCCTGTGTTGTTGCTGGTCACTCGGCCGACCTGCGGCCTGGG
GAGTTTGGTGGCCATCGGCAGTCCCTTCGCCCTACAGAACACAGTGACAACGGGCATCGTCAGCACT
GCCAGCGGGAGGGCAGGGAGCTGGCCCTCCGGGACTCCGACATGGACTACATCCAGACGGATGCCATC
ATCAACTACGGGAACCCGGGGACCACCTGGTGAACCTGGATGGCGAGGTATTGGCATCAACACGCTC
AAGGTCACGGCTGGCATCTCCTTTGCCATCCCCTCAGACCGCATCACACGGTTTCTCACAGAGTTCCAA
GACAAGCAGATCAAAGCCCCCTCACTGGCAGTTTCAT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237693
 Blue=ORF Red=Cloning site Green=Tag(s)

MQARALLLAALALAREPPAAPCPARCDVSRCPSPRCGGYVPDLCNCCLVCAASEGEPGGLDSP
 CGESLECVRGLCRCRWSHAVCGTDGHTYANVCALQAASRRALQLSGTPVRQLQKGACPLGLHQLSSPRY
 KFNFIADVVEKIAPAVVHIELFLRHPLFGRNVPLSSGSGFIMSEAGLIIITNAHVSSNSAAPGRQQLKV
 QLQNGDSYEATIKDIDKSDIATIKIHPKKLPVLLLGHSADLRPGEFVVAIGSPFALQNTVTTGIVST
 AQREGRELGRLSDMDYIQTDAIINYGNSSGGLVNL DGEVIGINTLKVTAGISFAIPSDRITRFLTEFQ
 DKQIKAPSLAVH
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001297559

ORF Size: 1071 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](#)

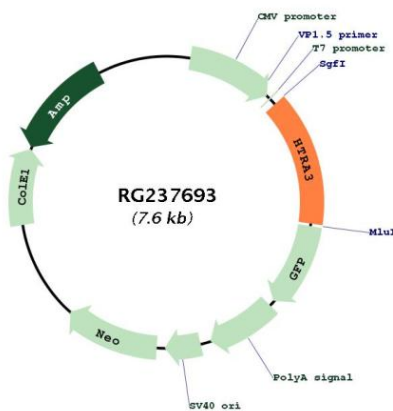
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

RefSeq: [NM_001297559.2](#)

RefSeq Size: 2102 bp

RefSeq ORF:	1074 bp
Locus ID:	94031
UniProt ID:	P83110
Cytogenetics:	4p16.1
Protein Families:	Druggable Genome, Protease, Secreted Protein
MW:	38.4 kDa
Gene Summary:	Serine protease that cleaves beta-casein/CSN2 as well as several extracellular matrix (ECM) proteoglycans such as decorin/DCN, biglycan/BGN and fibronectin/FN1. Inhibits signaling mediated by TGF-beta family proteins possibly indirectly by degradation of these ECM proteoglycans (By similarity). May act as a tumor suppressor. Negatively regulates, in vitro, trophoblast invasion during placental development and may be involved in the development of the placenta in vivo. May also have a role in ovarian development, granulosa cell differentiation and luteinization (PubMed:21321049, PubMed:22229724).[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for RG237693