

Product datasheet for **RG207810**

HTRA3 (NM_053044) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HTRA3 (NM_053044) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RG207810 representing NM_053044
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCAGGCGCAGCGCTGCTCCTGGCCGCTTGGCCGCTGGCGCTGGCCCGGAGCCCCCTGCGGCGC
 CGTGTCCCGCGCCTGCGACGTGTCGCGGTGCCAGCCCCGCTGCCCGGCGGTACGTGCCGACCT
 CTGCAACTGCTGCCTGGTGTGCGCCGCCAGCGAGGGCGAGCCCTGTGGCGCCCTCTGGACTCGCCTTG
 GGCGAGAGCCTGGAGTGCCTGCGCGCCTATGCCGCTGCCGCTGGTGCACGCCGTGTGTGGCACCAGC
 GGCACACCTATGCCAACGTGTGCGCGCTGCAGGCGGCCAGCCCGCGCGCTGCAGCTCTCCGGGACGCC
 CGTGCGCCAGCTGCAGAAGGGCGCCTGCCGTTGGGTCTCCACCAGCTGAGCAGCCCGCGCTACAAGTTC
 AACTTCATTGCTGACGTGGTGGAGAAGATCGCACCAGCCGTGGTCCACATAGAGCTCTTCTGAGACACC
 CGCTGTTTGGCCCAACGTGCCCTGTCCAGCGGTTCTGGCTTCATCATGTCAGAGGCCGCGCTGATCAT
 CACCAATGCCAGTGGTGTCCAGCAACAGTGTGCCCGGGCAGGCAGCAGCTCAAGGTGCAGCTACAG
 AATGGGGACTCCTATGAGGCCACCATCAAAGACATCGACAAGAAGTCGGACATTGCCACCATCAAGATCC
 ATCCCAAGAAAAAGCTCCCTGTGTTGTTGCTGGGTCACTCGGCCGACCTGCGGCCTGGGGAGTTGTGGT
 GGCCATCGGCAGTCCCTTCGCCCTACAGAACACAGTGACAACGGGCATCGTCAGCACTGCCAGCGGGAG
 GGCAGGGAGCTGGGCCTCCGGGACTCCGACATGGACTACATCCAGACGGATGCCATCATCAACTACGGGA
 ACTCCGGGGGACCACTGGTGAACCTGGATGGCGAGGTCATTGGCATCAACACGCTCAAGGTACGGCTGG
 CATCTCCTTTGCCATCCCTCAGACCGCATCACACGTTCTCACAGAGTTCCAAGACAAGCAGATCAAA
 GACTGGAAGAAGCGCTTCATCGGCATACGGATGCGGACGATCACACCAAGCCTGGTGGATGAGCTGAAG
 CCAGCAACCCGGACTTCCAGAGGTCAGCAGTGGAAATTTATGTGCAAGAGGTTGCGCCGAATTCACCTTC
 TCAGAGAGGCGGCATCCAAGATGGTGACATCATCGTCAAGGTCAACGGGCGTCTCTAGTGGACTCGAGT
 GAGCTGCAGGAGCGCTGCTGACCGAGTCTCTCTCTACTGGAGGTGCGCGGGGGAACGACGACCTCC
 TCTTCAGCATCGCACCTGAGGTGGTCATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG207810 representing NM_053044
 Red=Cloning site Green=Tags(s)

MQARALLLAALALAREPPAAPCPARCDVSRCPSPRCGGYVPDLNCCLVCAASEGEPGGPLDSPC
 GESLECVRGLCRCRWSHAVCGTDGHTYANVCALQAASRRALQLSGTPVRQLQKGACPLGLHQLSSPRYKF
 NFIADVVEKIAPAVVHIELFLRHPLFGRNVPLSSGSGFIMSEAGLIITNAHVSSNSAAPGRQQLKVQLQ
 NGDSYEATIKDIDKKSIDIATIKIHPKKLPVLLLGHSADLRPGEFVVAIGSPFALQNTVTTGIVSTAQRE
 GRELGLRDSMDYIQTDIINYGNSSGGLVNLGDEVIGINTLKVTAGISFAIPSDRITRFLTEFQDKQIK
 DWKKRFIGIRMRTITPSLVDELKASNPDPFPEVSSGIYVQEVAPNSPSQRGGIQDGDIIIVKNGRPLVDSS
 ELQEAVLTESPLLLEVRNGNDLLFSIAPEVVM

TRTRPLE - GFP Tag - V

Chromatograms:

https://cdn.origene.com/chromatograms/ja2275_e05.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_053044

ORF Size: 1359 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

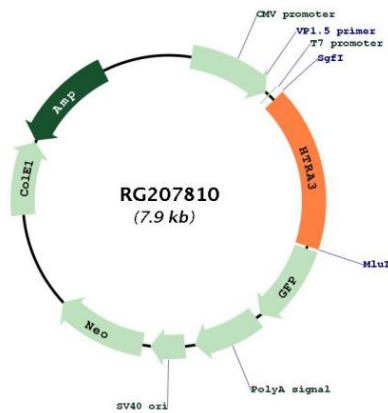
Reconstitution Method:

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_053044.5](#)

RefSeq Size: 2585 bp
RefSeq ORF: 1362 bp
Locus ID: 94031
UniProt ID: [P83110](#)
Cytogenetics: 4p16.1
Domains: IB, Tryp_SPc, PDZ, kazal
Protein Families: Druggable Genome, Protease, Secreted Protein
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 RG207810