

Product datasheet for **MG226669**

Htra3 (NM_030127) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Htra3 (NM_030127) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Htra3
Synonyms:	2210021K23Rik; 9530081K03Rik; Prsp; Tasp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG226669 representing NM_030127
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGGCGCGCGCTGCTCCCGCCACGCTGGCCATTCTGGCCACGCTGGCTGTGTTGGCTCTGGCCC
 GGGAGCCCCAGCGGCTCCGTGTCTGCGCGCTGCGACGTGTGCGCGTGTCCGAGCCCTCGCTGCCCTGG
 GGGCTATGTGCCTGACCTCTGCAACTGCTGCCTGGTGTGCGCTGCCAGCGAGGGCGAGCCCTGCGGCCGC
 CCCCTGGACTCTCCGTGCGGGGACAGTCTGGAGTGCCTGCGCGCGTGTGCCGCTGCCGTTGGACCCACA
 CTGTGTGTGGCACAGACGGGCATACTTATGCCGACGTGTGCGCGCTGCAGGCCGCCAGCCGTCGTGCGTT
 GCAGGTCTCCGGGACTCCAGTGCGCCAGCTGCAGAAGGGTGCCTGTCCCTCTGGTCTCCACCAGCTGACC
 AGTCCGCGGTACAAGTTCAACTTCATCGCCGATGTGGTGGAGAAGATTGCGCCAGCTGTGGTCCACATAG
 AGCTCTTTCTGAGACACCCCTGTTTGGCCGGAATGTGCCGCTGTCCAGTGGCTCGGGCTTCATCATGTC
 AGAAGCCGGTTTGCATCGTACCAACGCCACGTGGTCTCCAGCTCCAGCACTGCCTCCGGCCGGCAGCAG
 CTGAAGGTGCAGCTGCAGAATGGGGATGCCTATGAGGCCACCATCCAGGACATCGACAAGAAGTCGGACA
 TTGCCACGATTGTAATCCACCCCAAGAAAAAGCTCCCTGTGTTGCTGCTGGGTCACTCAGCAGACCTGCG
 GCCTGGCGAGTTCGTGGTGGCCATCGGCAGCCCTTTGCCCTGCAGAACCCTGACAACGGGTATTGTC
 AGCACTGCCAGCGGGATGGCAAGGAGCTGGGTCTCCGGGACTCAGACATGGACTATATCCAGACCGATG
 CCATCATCAATTACGGGAACTCAGGAGGACCCCTGGTGAACCTGGATGGCGAGGTTCATCGGCATCAACAC
 GCTCAAGTTGACAGTGGCATCTCCTTTGCCATCCCCTCAGATCGCATCACACGTTCTCTCTGAGTTC
 CAAAACAAGCATGTGAAAGACTGGAAGAAGCGCTTCATTGGCATCCGGATGCGGACCATCACGCCAAGTT
 TGGTGGAGGAAGTGAAGGCCGCAACCCAGACTTCCAGCGGTGAGCAGTGGAAATATATGTTCAAGAGGT
 GGTCCCAATTACCTTCTCAGAGAGGAGGCATCCAAGATGGCGACATCATCGTCAAAGTCAATGGCCGC
 CCCCTGCGGATTCCAGCGAGCTGCAGGAGGAGTCTGAACGAGTCTTCACTCCTGCTGGAGGTGCGGC
 GAGGCAATGATGATCTCCTCTTCCAGCATCATCCCTGAGGTGGTCATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG226669 representing NM_030127
 Red=Cloning site Green=Tags(s)

MQARALLPATLAILATLAVLALAREPPAAPPCPARCDVSRCPSPRCPPGGYVPDLNCNCLVCAASEGEPGGR
 PLDSPCGDSLECVRGVRCRWHTVCGTDGHTYADVICALQAASRRALQVSGTPVRQLQKACPSGLHQLT
 SPRYKFNFIADVVEKIAPAVVHIELFLRHPLFGRNVPLSSGSFIMSEAGLIVTNAHVSSSTASGRQQ
 LKVQLQNGDAYEATIQDIDKKSIDIATIVIHPPKKLPVLLLGHSAADLRPGEFVVAIGSPFALQNTVTTGIV
 STAQRDGKELGLRSDMDYIQTDAIINYNSGGPLVNLGDEVIGINTLKVAAGISFAIPSDRITRFLSEF
 QNKHKVDWKKRFIGIRMRTITPSLVEELKAANPDFPAVSSGIYVQEVVNPSPSQRGGIQDGDIIIVKYNR
 PLADSSSELQEAVLNESSLLLEVRNRGNDLLFSIIEPVVM

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_030127

ORF Size: 1377 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_030127.2](#), [NP_084403.2](#)

RefSeq Size: 2740 bp

RefSeq ORF: 1380 bp

Locus ID: 78558

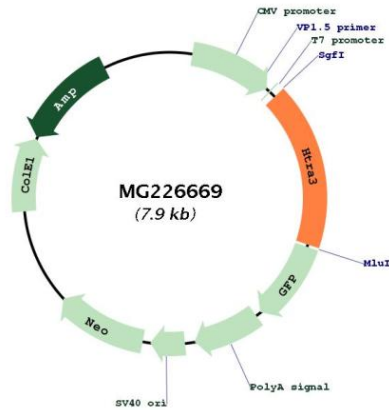
UniProt ID: [Q9D236](#)

Cytogenetics: 5 B3

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 (PubMed:15206957). 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 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG226669