

Product datasheet for MR226672

Htra3 (NM_001042615) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Htra3 (NM_001042615) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Htra3
Synonyms: 2210021K23Rik; 9530081K03Rik; Prsp; Tasp
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR226672 representing NM_001042615
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGCAGGCGCGCGCTGCTCCCCGCCACGCTGGCCATTCTGGCCACGCTGGCTGTGTTGGCTCTGGCCC
 GGGAGCCCCCAGCGGCTCCGTGTCTGCGCGCTGCGACGTGTGCGCTGTCCGAGCCCTCGCTGCCCTGG
 GGGCTATGTGCCTGACCTCTGCAACTGCTGCCTGGTGTGCGCTGCCAGCGAGGGCGAGCCCTGGGCGCG
 CCCCTGGACTCTCCGTGCGGGGACAGTCTGGAGTGCCTGCGCGGCGTGTGCCGCTGCCGTTGGACCCACA
 CTGTGTGTGGCACAGACGGGCATACTTATGCCGACGTGTGCGCGCTGCAGGCCCGCAGCCGTCGTGCGTT
 GCAGGTCTCCGGGACTCCAGTGCGCCAGCTGCAGAAGGGTGCCTGTCCCTCTGGTCTCCACCAGCTGACC
 AGTCCGCGGTACAAGTTCAACTTCATCGCCGATGTGGTGGAGAAGATTGCGCCAGCTGTGGTCCACATAG
 AGCTCTTTCTGAGACACCCCTGTTTGGCCGGAATGTGCCGCTGTCCAGTGGCTCGGGCTTCATCATGTC
 AGAAGCCGGTTTATCGTCACCAACGCCACGTTGGTCTCCAGCTCCAGCACTGCCTCCGGCCGGCAGCAG
 CTGAAGGTGCAGCTGCAGAATGGGGATGCCTATGAGGCCACCATCCAGGACATCGACAAGAAGTCGGACA
 TTGCCACGATTGTAATCCACCCCAAGAAAAGCTCCCTGTGTTGCTGCTGGTCACTCAGCAGACCTGCG
 GCCTGGCGAGTTCGTGGTGGCCATCGGCAGCCCCCTTGGCCCTGCAGAACCCGTGACAACGGGCATTGTC
 AGCACTGCCAGCGGGATGGCAAGGAGCTGGTCTCCGGGACTCAGACATGGATATATCCAGACCGGATG
 CCATCATCAATTACGGGAACCTCAGGAGGCCCTGGTGAACCTGGATGGCGAGGTATCGGCATCAACAC
 GCTCAAGTTGACAGCTGGCATCTCCTTTGCCATCCCCTCAGATCGCATCACACGTTCTCTCTGAGTTC
 CAAAACAAGCATGTGAAAGCCCTCTCACCAGCACTGCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR226672 representing NM_001042615
 Red=Cloning site Green=Tags(s)

MQARALLPATLAILATLAVLALAREPPAAPPCPARCDVSRCPSPRCPPGGYVPDLCNCCLVCAASEGEPGGR
 PLDSPCGDSLECVRGVCRWHTVCGTDGHTYADVCLQAASRRALQVSGTPVRQLQKGACPSGLHQLT
 SPRYKFNFIADVVEKIAPAVVHIELFLRHPLFGRNVPLSSGSGFIMSEAGLIVTNAHVSSSTASGRQQ
 LKVQLQNGDAYEATIQDIDKKSADIATIVIHPKKKLPVLLLGHSAADLRPGEFVVAIGSPFALQNTVTTGIV
 STAQRDQKELGLRDSMDYIQTDAIINYGNSSGGPLVNL DGEVIGINTLKVAAIGISFAIPSDRITRFLSEF
 QNKHKV KALSPALH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9008_c08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001042615

ORF Size: 1089 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_001042615.2](#), [NP_001036080.1](#)

RefSeq Size: 2211 bp

RefSeq ORF: 1092 bp

Locus ID: 78558

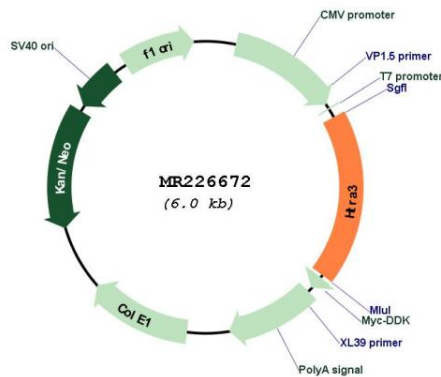
UniProt ID: [Q9D236](#)

Cytogenetics: 5 B3

MW: 39 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 (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 MR226672