

Product datasheet for **MG207308**

Htra2 (NM_019752) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Htra2 (NM_019752) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Htra2
Synonyms:	AI481710; mnd2; Omi; Prss25
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207308 representing NM_019752
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGCGCTGAAAGCGGGCGGGGTGCAAACCTGGAGCCTTCGGGCATGGCGGGCTTTGGGGGCATCT
 TCTGGAGGAAGCCTCCCCGTTAGCTCCTGACCTCCGGGCTCTGCTGACGTCAGGAACCTCCTGACTCTCA
 GATCTGGATGACTTATGGGACCCCCAGTCTCCCGCCAGGTGCCTGAGGGGTTCCCTGCATCACGGGCA
 GATCTGACGCTAGGACCCCGGATCTCTGGGCACGATTGAATGTGGGGACTTCAGGCTCCAGTGACCAGG
 AGGCCCGCAGGAGCCCTGGAAGCCGTGGCGCGAATGGCTGGCGGTGGCGGTGGGCGCAGGAGGTGCAGT
 GGTGCTGCTGTTGTGGGGTTGGGGTCCGGGCTTTCCACGGTGTGGCTGCTGTTCTGCTCCGCCACCC
 ACTTCTCCCCGGAGCCAGTACAATTTTCATCGCAGATGTGGTGGAGAAGACAGCCCCTGCTGTGGTCTATA
 TCGAGATCCTAGACCGGCACCCCTTCTCCGGCCGTGAAGTCCCCATCTCAAACGGATCAGGATTCGTAGT
 GGCTTCAGATGGGCTCATCGTTACCAACGCCACGTGGTGGCTGATCGGGCCGAGTACGAGTGAGGCTG
 CCTAGCGGGGATACTTATGAGGCCATGGTCACAGCTGTGGATCCCGTAGCAGACATTGCCACACTGAGGA
 TTCAAACCAAGGAGCCTCCTCCACACTGCCCTCGGCCGCTCTGCTGATGTCGGCAAGGGGAGTTTGT
 TGTGGCCATGGGAAGCCCTTTGCACTGCAGAACACGATCACATCTGGTATTGTCAGCTCTGCTCAGCGC
 CCAGCCAGGGACCTGGGACTCCCTCAAACAACGTGGAATACATTCAGACCGATGCAGCTATTGATTTTG
 GAAATCTGGTGGTCCCCTGGTTAACCTGGATGGGGAGGTGATTGGAGTGAACACCATGAAGGTGACAGC
 TGGAAATCCTTTGCCATCCCTTCTGATCGCCTTAGGGAGTTTCTGCATCGCGGGGAAAAGAAAAATTCC
 TGGTTTGAACCAAGTGGGTCCCAGCGCCGCTACATTGGAGTATGATGCTGACCCGACTCCCAGCATCC
 TTATTGAACTACAGTCCGTGAGCCAAGCTTCCCTGATGTTGAGCATGGTGTCTCATTCAAAGTTAT
 CCTGGGCTCCCCCGCACACAGGGCTGGTCTCGCGCCTGGTGTGATGATCTTGCCATTGGGGAGAAATTG
 GCACAAAATGCTGAAGATGTTTATGAAGCTGTTGAAACCAATCACAGCTGGCAGTGGGATCCGGCGCG
 GATCAGAGACTGATCTTATATGTGACCCCCGAGGTCACAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207308 representing NM_019752
 Red=Cloning site Green=Tags(s)

MAALKAGRGANWSLRAWRALGGIFWRKPPLLAPDLRALL TSGTPDSQIWMTYGTPLPAQVPEGFLASRA
 DLTSRTPDLWARLNVGTSGSSDQEARRSPGSRREWLAVAVGAGGAVLLLLWGWGRGLSTVLAAPPPP
 TSPRSQYFIADVVEKTAPAVVYIEILDRHPFSGREVPISNGSGFVVASDGLIVTNAHVVADRRRVRVRL
 PSGDYEAMVTAVDPVADIATLRIQTKEPPPTLPLGRSADVRQGEFVAMGSPFALQNTITSGIVSSAQR
 PARDLGLPQNNVEYIQDAAIDFGNSGGPLVNL DGEVIGVNTMKVTAGISFAIPSDRLREFLHRGEKKNS
 WFGTSGSQRRYIGVMMLTLTPSILIELQLREPSFPDVQHGVLIHKVILGSPAHRAGLRPGDVILAI GEKL
 AQNAEDVYEAVRTQSQLAVRIRRGSETLILYVTPEVTE

TRTRPLE - GFP Tag - V

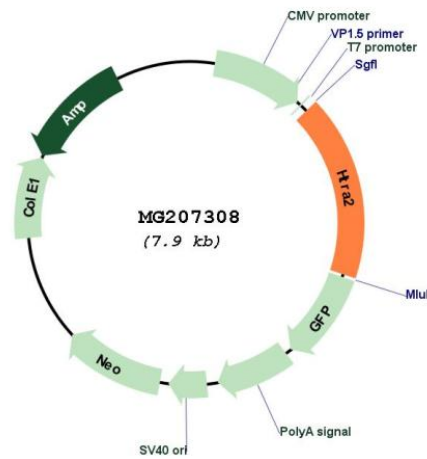
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_019752

ORF Size: 1374 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:	<ol style="list-style-type: none">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:	<u>NM_019752.2</u> , <u>NP_062726.2</u>
RefSeq Size:	1722 bp
RefSeq ORF:	1377 bp
Locus ID:	64704
UniProt ID:	<u>Q9JIY5</u>
Cytogenetics:	6 35.94 cM
Gene Summary:	Serine protease that shows proteolytic activity against a non-specific substrate beta-casein. Promotes or induces cell death either by direct binding to and inhibition of BIRC proteins (also called inhibitor of apoptosis proteins, IAPs), leading to an increase in caspase activity, or by a BIRC inhibition-independent, caspase-independent and serine protease activity-dependent mechanism. Cleaves THAP5 and promotes its degradation during apoptosis (By similarity).[UniProtKB/Swiss-Prot Function]