

Product datasheet for **RC230486**

ITIH1 (NM_001166434) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ITIH1 (NM_001166434) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ITIH1
Synonyms:	H1P; IATIH; IGHEP1; ITI-HC1; ITIH; SHAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC230486 representing NM_001166434
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCAATTCACCATCCACCTCACCGTCAATCCCCAGAGCAAGGTCACGTTTCAGCTGACTTATGAGG
 AAGTGCTGAAGAGAAACCATATGCAGTATGAAATTGTCATCAAAGTCAAGCCCAAGCAGCTGGTGCATCA
 TTTTGAGATTGATGTGGACATCTTCGAGCCCCAGGGGATCAGCAAGCTGGATGCCAGGCCCTCTTTCCTG
 CCGAAGGAACTGGCAGCCCAAATATCAAGAAGTCCTTCTCAGGAAAAAGGGTCATGTGCTGTTCCGTC
 CCACCGTGAGCCAGCAGCAGTCTGCCCCACATGCTCTACATCCTTACTGAACGGGCACTTCAAGGTGAC
 CTACGATGTCAGTCGAGACAAGATCTGCGACCTCCTGGTGGCCAATAACCACTTTGCCACTTCTTTGCC
 CCCCCAAAACCTGACAAACATGAACAAGAACGTGGTTTTTGTGATTGACATCAGTGGCTCCATGAGAGGCC
 AGAAAGTGAAGCAGACCAAGGAGGCACTCTTAAAATTCTGGGGACATGCAGCCAGGGGACTACTTTGA
 CCTGGTCTTTTTGGGACTCGAGTACAATCGTGAAGGGCTCGTGGTGAAGCATCTGAGGCCAACCTA
 CAAGCAGCTCAAGACTTTGTGCGGGGCTTTCCCTGGATGAGGCCACAAACCTGAATGGAGGTTTGTCTC
 GGGGAATTGAGATCTTGAACCAAGTTCAGGAAAGCCTCCCAGAATCAGCAACCATGCCTCAATACTCAT
 CATGTTGACAGATGGCGATCCCACAGAGGGGTGACGGACCGTCCCAAATCCTCAAGAACGTCCGCAAC
 GCCATCCGGGGCAGGTTCCCGCTCTACAACCTGGGTTTCGGCCACAATGTGGACTTTAACTTTCTGGAGG
 TCATGTCCATGGAGAACAACGGACGGGCCAGAGAATCTACGAGGACCATGATGCCACCCAGCAGCTGCA
 GGGTTTCTACAGCCAGGTAGCCAAACCCCTGCTGGTGGATGTGGATTTGCAGTACCCCAAGGATGCTGTC
 TTGGCCCTGACCCAGAACCACCAATAACAGTACTACGAAGGCTCAGAGATTGTGGTGGCCGGGCGCATTG
 CTGACAAACAACAGAGCAGCTTCAAGGCTGATGTGCAGGCCCATGGGGAGGGACAAGAATTCAGTATAAC
 CTGCCTAGTGGATGAGGAGGAGATGAAGAACTGCTCCGAGAGCGTGGCCACATGCTGGAGAACCAGCTC
 GAGCGCCTCTGGGCTACCTCACCATCCAGGAGCTGCTGGCCAAGCGGATGAAGGTGGACAGGGAGGAGA
 GGGCCAACCTGTATCCCAGGCCCTGCAGATGTCGCTGGACTATGGGTTTGTGACCCCACTGACCTCCAT
 GAGCATCAGGGGCATGGCGGACCAGGACGGCCTGAAGCCACCATCGACAAGCCCTCAGAGGATTCTCCG
 CCTTTGGAGATGCTGGGACCCAGAAGGACGTTTCGTGCTGTCAGCCTTGCAGCCTTCTCCTACTATTCCA
 GCTCCAATACCCAGCGGCTGCCAGACCGAGTGACCGGCTGGACACAGACCCTCACTTCATCATCCACGT
 GCCCCAGAAAGAGGACACCTGTGCTTCAACATCAATGAGGAGCCTGGTGTATCCTGAGCCTGGTACAG
 GACCCCAACACAGGCTTCTCAGTGAATGGACAGCTCATTGGCAACAAGGCCAGGAGCCCTGGGCAGCATG
 ACGGCACGTACTTCGGGGCGCTGGGAATCGCAAACCTGCCACGGACTTTCAGTTGGAAGTGACTCCTCA
 GAACATTACGCTGAACCCCGGCTTTGGTGGCCTGTGTTTTCTGGAGGGACCAAGCTGTGCTGCGGCAG
 GACGGGGTGGTGGTGACCATCAACAAGAAGAGGAACCTGGTGGTGTCTGTGGACGACGGTGGCACCTTTG
 AGGTTGTTTTGCACCGAGTGTGGAAGGGGAGCTCGGTCCACCAGGACTTCTGGGCTTCTATGTGCTGGA
 CAGTCACTCGGATGTCAGCCCGGACGCACGGGCTGCTGGGGCAATTTTCCACCCCATCGGTTTTGAAGTG
 TCTGACATCCACCCAGGCTCTGACCCACAAAGCCAGATGCCACGATGGTGGTGAAGAACCCGGCTCA
 CGGTACCAGGGGTTTGCAAAAAGACTACAGCAAGGACCCGTGGCATGGGGCCGAGGTGCTCTGCTGGTT
 CATTCAACAACATGGGGCTGGACTCATCGATGGTGCCTACACTGATTATATCGTCCCCGACATCTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC230486 representing NM_001166434
 Red=Cloning site Green=Tags(s)

```
MEQFTIHLTVNPQSKVTFQLTYEEVLKRNHMQYEIVIKVKPKQLVHHFEIDVDIFEPQGISKLDAQASFL
PKELAAQTIKKSFSGKKGHVLFRPTVSQQQSCPTCSTLLNGHFVKTYDVS RDKICDLLVANNHFAHFFA
PQNL TNMKNVVFVIDISGSMRGQKVKQTK EALLKILGDMQPGDYFDL VLFGRVQSWKGS LVQASEANL
QAAQDFVRGFSLDEATNLNGLLRGIEILNQVQESLPELSNHASILIMLTDGDPTEGVTDRSQILKNVRN
AIRGRFPLYNLGFGHNVDNFLEVMSENNGRAQRIYEDHDATQQLG FYSQVAKPLLVDVDLQYPQDAV
LALTQNHKQYYEGSEIVVAGRIADNKQSSF KADVQAHGEGQEF SITCLVDEEEMKLLRERGHMLENHV
ERLWAYLTIQELLAKRMKVDREERANLSSQALQMSLDYGFV TPLT SMSIRGMADQDGLKPTIDKPS EDS
PLEMLGPRRTFVLSALQPSPTHSSNTQRLPDRVTGVDTPHFIIHVPQKEDTLCFNINEEPGVILSLVQ
DPNTGFSVNGQLIGNKARSPGQHDGTYFGR LGIANPATDFQLEVTPQNITLNPFGGPFVSWRDQAVLRQ
DGVVVVTINKKRNLVSVDDGGTFEVLHRVWKGSSVHQDFLGFYVLD SHRMSARTHGLLGQFFHPIGFEV
SDIHPGSDPTKPDATMVVRNRRLTVTRGLQKDYSKDPWHGAEVSCWF IHNNGAGLIDGAYTDYIVPDI
```

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8102_c05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001166434

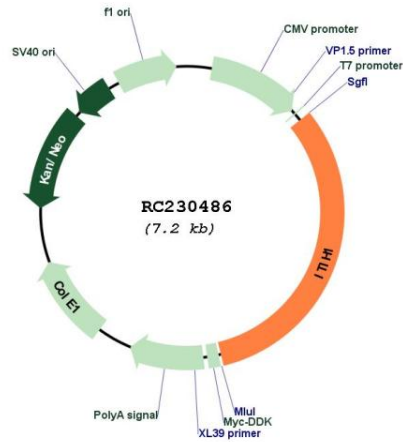
ORF Size: 2307 bp

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](#)

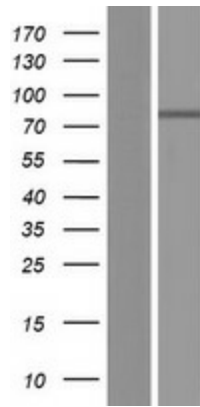
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	NM_001166434.3
RefSeq Size:	2762 bp
RefSeq ORF:	2310 bp
Locus ID:	3697
UniProt ID:	P19827
Cytogenetics:	3p21.1
Protein Families:	Transmembrane
MW:	86.2 kDa
Gene Summary:	<p>This gene encodes a member of the inter-alpha-trypsin inhibitor family of proteins. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the heavy chain of the inter-alpha-trypsin inhibitor complex, which is secreted by hepatocytes into the blood. The heavy chain also interacts with hyaluronan, and this interaction may play a role in ovulation and fertilization, and has been implicated in multiple inflammatory diseases. This gene is present in a gene cluster on chromosome 3. [provided by RefSeq, Nov 2015]</p>

Product images:



Circular map for RC230486



Western blot validation of overexpression lysate (Cat# [LY433486]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC230486 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).