

Product datasheet for **RC220442**

ITIH5 (NM_001001851) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ITIH5 (NM_001001851) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ITIH5
Synonyms:	ITI-HC5; PP14776
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC220442 representing NM_001001851
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTCCTGCTGTGGGGCTGTGCCTGGGGCTGTCCCTGTGTGTGGGGTGCAGGAAGAGGCCGAGAGCT
 GGGGCCACTCTTCGGAGCAGGATGGACTCAGGGTCCCGAGGCAAGTCAGACTGTTGCAGAGGCTGAAAAC
 CAAACCTTTGATGACAGAATTCTCAGTGAAGTCTACCATCATTTCCCGTTATGCCTTCACTACGGTTTCC
 TGCAGAATGCTGAACAGAGCTTCTGAAGACCAGGACATTGAGTTCAGATGCAGATTCCAGCTGCAGCTT
 TCATCACCAACTCACTATGCTTATTGGAGACAAGGTGTATCAGGGCGAAATTACAGAGAGAGAAAAGAA
 GAGTGGTATAGGGTAAAAGAGAAAAGGAATAAAACCACAGAAGAAAATGGAGAGAAGGGGACTGAAATA
 TTCAGAGCTTCTGCAGTATTCCAGCAAGGACAAAGCCGCTTTTTCTGAGTTATGAGGAGCTTCTGC
 AGAGGCGCTGGCAAGTACGAGCACAGCATCAGCGTGCAGCCAGCAGCTGTCCGGGAGGCTGAGCGT
 GGAGCTGAATATCCTGGAGAGCGCGGGCATCGCATCCCTGGAGGTGCTGCCGCTTACAACAGCAGGCAG
 AGGGGCAGTGGGCGCGGGAAGATGATTCTGGGCCTCCCCATCTACTGTCAATAACAAAATGAAACAT
 TTGCCAACATAATTTTTAAACCTACTGTAGTACAACAAGCCAGGATTGCCAGAATGGAATTTGGGAGA
 CTTTATCATTAGATATGACGTCAATAGAGAACAGAGCATTGGGGACATCCAGGTTCTAAATGGCTATTTT
 GTGCACTACTTTGCTCCTAAAGACCTTCTCCTTTACCAAGAATGTGGTATTCGTGCTTGACAGCAGTG
 CTTCTATGGTGGGAACAAACTCCGGCAGACCAAGGATGCCCTTTCACAATTCTCCATGACCTCCGACC
 CCAGGACCGTTTCAGTATCATTGGATTTTCCAACCGGATCAAAGTATGGAAGGACCACTTGATATCAGTC
 ACTCCAGACAGCATCAGGGATGGGAAAGTGTACATTACCATATGTCACCCACTGGAGGCACAGACATCA
 ACGGGCCCTGCAGAGGGCCATCAGGCTCCTCAACAAGTACGTGGCCACAGTGGCATTGGAGACGGGAG
 CGTGTCCCTCATCGTCTTCTGACGGATGGGAAGCCACGGTCCGGGAGACGCACACCCTCAAGATCCTC
 AACAAACCCGAGAGGCCGCCGAGGCCAAGTCTGCATCTTACCATTGGCATCGCAACAGCAGTGGACT
 TCAGGCTGCTGGAGAACTGTGCTGGAGAAGTGTGGCCTCACACGGCGCGTGCACGAGGAGGAGGACGC
 AGGCTCGCAGCTCATCGGTTTACGATGAAATCAGGACCCGCTCCTCTGACATCCGCATCGATTAT
 CCCCCAGCTCAGTGGTGCAGGCCACCAAGACCCTGTTCCCAACTACTTCAACGGCTCGGAGATCATCA
 TTGCGGGAAAGCTGGTGGACAGGAAGCTGGATCACCTGCACGTGGAGGTCACCGCCAGCAACAGTAAGAA
 ATTCATCATCCTGAAGACAGATGTGCCTGTGCGGCCTCAGAAGGCAGGAAAGATGTCACAGGAAGCCCC
 AGGCTGGAGGCGATGGAGAGGGGACACCAACCACATCGAGCGTCTCTGGAGCTACCTCACCACAAGG
 AGCTGTGAGCTCCTGGCTGCAAAGTGACGATGAACCGGAGAAGGAGCGCTGCGGCAGCGGGCCAGGC
 CCTGGCTGTGAGCTACCGCTTCTCACTCCCTTCACTCCATGAAGCTGAGGGGGCCGGTCCCACGCATG
 GATGGCCTGGAGGAGGCCACGGCATGTCGGTGCATGGGACCCGAACCGGTGGTGCAGAGCGTGCAGAG
 GAGCTGGCAGCGACCCAGGACCTTTGCTCAAGAAGCCATACCAGCCAAGAATTAATCTCTAAAACATC
 AGTTCGTGGCTTCAGAAGGAAGAAGAGATTTTTCAAATGTCATGAAATTTCTTTTGGCAGCATCCTG
 GAACTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC220442 representing NM_001001851
Red=Cloning site Green=Tags(s)

```

MLLLLGLCLGLSLCVGSQEEAQSWGHSSEQDGLRVPRQVRLQLRKTPLMTEFSVKSTIISRYAFTTVS
CRMLNRASEDQDIEFQMQIPAAAFITNFMTLIGDKVYQGEITEREKKSGDRVKEKRNKTTTEENGEKGTETI
FRASAVIPSKDKAAFFLSYEELLQRRLGKYEHSISVRPQQLSGRLSVDVNILESAGIASLEVLPLHNSRQ
RGSGRGEDDSSGPPPSTVINQNETFANIIFKPTVVQQARIAQNGILGDFIIRYDVNREQSIGDIQVLNGYF
VHYFAPKDLPPLPKNVFVLDSSASVMGTCLRQTKDALFTILHDLRPQDRFSIIGFSNRKIVWKDHLISV
TPDSIRDGKVIYHHMSPTGGTDINGALQRAIRLLNKYVAHSGIGDRSVSLIVFLTDGKPTVGETHTLKIL
NNTREAARGQVCIFTIGIGNVDVFRLLLEKLSLENCGLTRRVHEEEDAGSQLIGFYDEIRTPLLSDIRIDY
PPSSVVQATKTLFPNYFNGSEIIAGKLVDRLDHLHVEVTASNSKFFIILKTDVPRPQKAGKDVTGSP
RPGGDGEGDTHIERLWSYLTTKELLSSWLQSDDEPEKERLRQRAQALAVSYRFLTPFTSMKLRGPVPRM
DGLLEEAHGMSAAMGPEPVVQSVRGAGTQPGLLKKPYQPRIKISKTSVRGFRREEQIFSVMKFFPFASIL
EL
    
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001001851

ORF Size: 2106 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_001001851.2](#)

RefSeq Size: 3105 bp

RefSeq ORF: 2109 bp

Locus ID: 80760

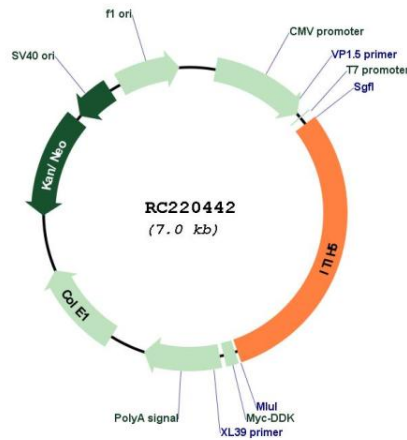
UniProt ID: [Q86UX2](#)

Cytogenetics: 10p14

MW: 78.3 kDa

Gene Summary: This gene encodes a heavy chain component of one of the inter-alpha-trypsin inhibitor (ITI) family members. ITI proteins are involved in extracellular matrix stabilization and in the prevention of tumor metastasis. They are also structurally related plasma serine protease inhibitors and are composed of a light chain and varying numbers of heavy chains. This family member is thought to function as a tumor suppressor in breast and thyroid cancers. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2011]

Product images:



Circular map for RC220442