

## Product datasheet for **SC103392**

### ITIH5 (NM\_032817) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ITIH5 (NM_032817) Human Untagged Clone
Tag:	Tag Free
Symbol:	ITIH5
Synonyms:	ITI-HC5; PP14776
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_032817, the custom clone sequence may differ by one or more nucleotides

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ATGCGGAACATGATTCTGGGCCTCCCCATCTACTGTCATTAACCAAAATGAAACATTTGCCAACATAA
TTTTAAACCTACTGTAGTACAACAAGCCAGGATTGCCAGAATGGAATTTGGGAGACTTTATCATTAG
ATATGACGTCAATAGAGAACAGAGCATTGGGGACATCCAGGTTCTAAATGGCTATTTTGTGCACTACTTT
GCTCCTAAAGACCTTCTCCTTTACCCAAGAATGTGGTATTCGTGCTTGACAGCAGTGCTTCTATGGTGG
GAACCAAACCTCCGGCAGACCAAGGATGCCCTCTTCACAATTCTCCATGACCTCCGACCCAGGACCGTTT
CAGTATCATTGGATTTTCCAACCGGATCAAAGTATGGAAGGACCATTGATATCAGTCACTCCAGACAGC
ATCAGGGATGGGAAAGTGTACATTCACCATATGTCACCCACTGGAGGCACAGACATCAACGGGGCCCTGC
AGAGGGCCATCAGGCTCCTCAACAAGTACGTGGCCACAGTGGCATTGGAGACCGGAGCGTGTCCCTCAT
CGTCTTCTGACGGATGGGAAGCCACGGTCGGGGAGACGCACACCCTCAAGATCCTCAACAACACCCGA
GAGGCCCGCCGAGGCAAGTCTGCATCTTACCATTGGCATCGGCAACGACGTGGACTTCAGGCTGCTGG
AGAACTGTCGCTGGAGAAGTGTGGCCTCACACGGCGCTGCACGAGGAGGAGGACGAGGCTCGCAGCT
CATCGGGTTCTACGATGAAATCAGGACCCCGCTCCTCTGACATCCGCATCGATTATCCCCCAGCTCA
GTGGTGCAGGCCACCAAGACCCTGTTCCCAACTACTTCAACGGCTCGGAGATCATCATTGCGGGGAAGC
TGGTGGACAGGAAGCTGGATCACCTGCAGTGGAGGTCACCGCCAGCAACAGTAAGAAATTCATCATCCT
GAAGACAGATGTGCCTGTGCGGCCTCAGAAGGCAGGAAAGATGTACAGGAAGCCCGAGGCTGGAGGC
GATGGAGAGGGGGACCAACCACATCGAGCGTCTCTGGAGTACCTCACCACAAAGGAGCTGCTGAGCT
CCTGGCTGCAAAGTGACGATGAACCGGAGAAGGAGCGGCTGCGGCAGCGGGCCAGGCCCTGGCTGTGAG
CTACCGCTTCTCACTCCCTTACCTCCATGAAGCTGAGGGGGCCGGTCCCACGCATGGATGGCCTGGAG
GAGGCCACGGCATGTGCGTGCATGGGACCCGAACCGTGGTGCAGAGCGTGCAGGAGCTGGCACGC
AGCCAGGACCTTTGCTCAAGAAGCCATACCAGCCAAGAATTAATACTCTAAAACATCAGTGGATGGTGA
TCCCCACTTTGTTGTGGATTTCCCCCTGAGCAGACTCACCGTGTGCTTCAACATTGATGGGCAGCCCGG
GACATCCTCAGGCTGGTCTCTGATCACAGGACTCTGGTGTACAGTGAACGGAGAGTAAATGGGGCAC
CCGCCCTCCAAATGGCCACAAGAAACAGCGCACTTACTTGCGCACTATCACCATCCTCATCAACAAGCC
AGAGAGATCTTATCTCGAGATCACACCGAGCAGAGTCACTTGGATGGTGGGGACAGACTGGTGTCTCCC
TGCAACCAGAGTGTGGTGGTGGGAGCTGGGGCTGGAGGTGTCCGTGTCTGCCAACGCCAATGTCACCG
TCACCATCCAGGGCTCCATAGCCTTTGTCATCCTCATCCACCTTACAAAAAGCCGGCGCCCTTCCAGCG
ACACCACCTGGGTTTCTACATTGCCAACAGCGAGGGCCTTCCAGCAACTGCCACGGACTGCTGGGTGAG
TTCTTGAATCAGGATGCCAGACTCACAGAAGACCTGCAGGGCCAGCCAGAACCCTCACTACCCTCTGC
TCCTTCAGGTGGGAGAGGGGCTGAGGCCGCTTAAACAGTGAAAGGCCACCAAGTCCCAGTGGTCTGGAA
GCAAAGGAAGATTTACAACGGGGAAGAGCAGATAGACTGCTGGTTTCCAGGAACAATGCCGCCAAACTG
ATTGACGGGGAGTACAAGGATTACCTGGCATCCATCCATTTGACACAGGGATGACACTTGGCCGGGGAA
TGTCAGGGAGCTCTGA
```

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_032817 unedited  
 TTTGTAATACGACTCACTATAGGGGCGGCCGGAATTCGCACGAGGCATAGTTCCCAGAC  
 CTTTTTCTTGTGGTCATCCAGGAGGTGATCAATTACATGTGCACAGTGCTAGGACGGG  
 AGGCAGAGCCGGCTCAGAGCAGGTCCACCAGCCCACCTATAGCAGGAAGCGTGTCCGGTGC  
 TTAGGAAATCTAGGACTTCCAGCTTCCCTCATGTAGATAGAAAAAAGTCAGGAAACCA  
 GCTCGTGGACAGGGGCTTTGGTTCCAAAACCTGGACAAAACCTGATGCCTTAAGGAAAAGG  
 TTAAGATGAGAGGGGGCTTCCAGAGTCAATGAACGTACCCTTCAGCCGACGGATACCGG  
 GAGCGCTTGGGCAAAACAGCAGAGAAAAGAAAGACTGTGGTCGGGGAAGTGGAAATGCTTCG  
 ATGCAGGCCAGAGTTCAAGGCTCTGGGGCTGGCCTCACAAGAGGCTTCTTCCACGGGGCT  
 TGACACCAGAGCAGCCCCCGGTGAAATGAGAAGGCATGCTTAGCACTGGGAGGAAAAGC  
 TGAGTTAAGAAAATCTTTATCATGTTTGCCTTCCCTGGGGAACATTACGGCAGTAAAA  
 TGACATCCACGTGTTCTGTCCGACGCAGCGGCTTCGGGAACAAGTTAGCGCTGGGGAC  
 TATCTGGGCTCGTCTCTCTGCTTCGTGAACCCACCACACCAGGGGCTGTCTGTGTG  
 CTATTTATTTGCCTTCCGTCTTCCAACCTCAGCTGCCTGTATTTCATGCCAGAGTGCAAA  
 GGCTGCCAGCCAGTGCTGCTGACAGATGCTTTCAGACTGTANAGCTCANAGAAGGGAGCC  
 GCAGCTANNAGTAGCCAGGGAGCTGGGCCAGCTCCCCGGGGCCTC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_032817 unedited  
 ACCGCGGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTAGATTCTTCAAGTTTT  
 ATTCTCAACAGCTCCAATTCCATTTTCCCTTAGAAAAAACAGACCAATATGTTGTTG  
 TTTTTATGCATCGTTCTTATAAATTTTTGTCTAAGTAAAATGTCTTGAATGTGAA  
 CTGTCTGTACCCCACTAATTATTTAAACTAAAATAAATATTTAAAGCTACATTTATAA  
 GTATTTGCTTAGCTGTGTTATTTGTTATTTATTTAGCTGGATCATGTCTACAGTTCCA  
 AGAGTCTTTAAATTTAATAACAGCATTGTTTGTGTACATTCTGGGAAGCTTAAAGAAC  
 AGAAAAAGAAATTAACGTTTTGAATGATTTGGTGTCTAGTCAGCTTGGGCTGCCTTAACA  
 AGAATACCACAGACTTGAGTAGCTTAAACAAAACACATTTATTTCTCACAGTTCTGGAGG  
 CTGGGAGGTCCAAGATCAAGGTGCCAGCAGACATGGTGTCTGGTGGAGGGCCGTCTTCTG  
 GCTTGCAGGTGGCCATCTTCTCATCGTATCCCCAGGTGGTGGAGAGGAAAAACACCATCT  
 CTCCCATGTCTTTTTTTGTTTTGTTTTGTTTTTTTTTGGACGGAGTTGGCTCTGTA  
 CTGCTTGGAAATGCAATTGGCGTGATCCTGGGCTCACTACAAGNNTCCGACTGCCTGGNT  
 TCAAAGCGATTCTCTGCCTCAGCCTCCCAAGTAGCTGGAACACTACAGGCACGCACCACCA  
 CGCCAGCTAATTTTGTATTTAGTAGAGACGAAGTTACCATGNTNGNCAGNATGGTC  
 TNCATCTNCTGCCTATGATCCACCTTCTTCGGCTNCCAATGTTGGATTACAGGTGTG  
 AAGCACTGCACCTGGNCCATGTTNTCTTATAGGGNCCTTATCCCATTNCTGAGGGCT  
 CTGCCNNTCAGACCCATAACTNNCAAGGTNCCANTNCAAGACCATCCATTACAGGATTNA  
 GCTTCACATATGATA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_032817

**Insert Size:**

3520 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_032817.1](#), [NP\\_116206.1](#)

**RefSeq Size:** 6100 bp

**RefSeq ORF:** 366 bp

**Locus ID:** 80760

**Cytogenetics:** 10p14

**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]  
Transcript Variant: This variant (2) lacks several 5' exons and has an alternate 5' exon, compared to variant 1. The encoded isoform (2) has an alternate and shorter N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.