

## Product datasheet for **MC229181**

### **Itih4 (NM\_001289632) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Itih4 (NM_001289632) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Itih4
Synonyms:	ITI-HC4; Itih; Itih-4; PK-120
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC229181 representing NM\_001289632  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAAGAGCCCTGCCCTGCCACATGTGGAACCTTGTGCTGTTCTTGCCTTCACTGTTGGCTGTGCTTC  
CGACCACTACTGCCGAGAAGAATGGCATCGATATCTACAGCCTCACGGTGGACTCCCGGGTCTTCCCG  
ATTTGCCATACTGTTGTCAACGACCGGGTGGTCAACAGAGCCGATGCTGTTCAAGAAGCGACCTTCCAA  
GTAGAGCTACCCAGGAAAGCCTTCATCACCAACTTTTCCATGATCATCGATGGCGTGACCTACCCAGGGG  
TTGTCAAAGAGAAGGCCGAAAGCCGAAACAATACAGTGCCGCCGTGGCAGGGGAGAGAGTGTGGCAT  
CGTCAAGACCACTGGGAGGCAGACAGAGAAGTTTGAAGTGTGAGTCAACGTGGCCCTGGTTCCAAGATT  
ACCTTCGAAGTCAATACCCAGGAAGTGTCCAAAGGCGACTGGGAATGTATGAGTACTCCTCAAAGTGA  
GGCCTCAGCAGCTGGTGAAGCACCTTCAGATGGACATCTACATCTTTGAGCCTCAGGGTATTAGCATCCT  
GGAGACAGAGAGCACCTTCATGACCCCGAGCTGGCAAATGCCCTTACCCTTACAGAACAGACCAAG  
GCTCATATCCGGTCAAGCCGACGCTCTCCAGCAACAGAAGTCTCAGAGTGAGCAGGACACGGTGTGA  
ATGGGGACTTCATCGTCCGCTATGATGTCAACCGTCTGACTCTGGGGTCCATTACAGATTGAGGAAGG  
CTACTTTGTGCACCACTTGTCCAGAGAACCCTTCTACAATGTCCAAGAATGTGATCTTTGTCAATTGAT  
AAAAGCGGATCTATGTCAGGCAAGAAAATCCAGCAGACCCGAGAAGCCCTAGTCAAGATCTTGAAAGACC  
TCAGCCCCAAGACCAAGTCAACCTCATTGAGTTCAGTGGGAAGCAAACCAATGGAAGCAGTCACTGGT  
GCAAGCGACAGAAGAGAATTTGAACAAGGCTGTAAGTATGCTCCAGGATCCGGCTCACGGAGGGACC  
AACATCAATAATGCAGTGTGTTGGCTGTGGAGCTGTGGACAGAAGCAACCAAGTACTGAGTACTGCCCT  
CGAAGAGCGTCTCCCTTATCATCTGCTCACGGACGGTGACCCCACTGTGGGAGAAACCCACCCGAT  
TATCCAGAACAACGTGCCGGAAGCCATCAATGGGCAAGTATAGCCTCTTCTGCCTGGGGTTCCGGCTTTGAT  
GTGAAGTATCCTTCTGGAAGAAGTGGCACTGGACAATGGTGGCCTGGCCAGGCGCATCTATGAGGATT  
CAGACTCTGCACTGCAGCTTCAAGATTTCTACCACGAAGTAGCCAATCCACTGCTCTCATCAGTGGCCTT  
CGAATACCCAGTGTGCTGTGGAGGAAGTCACTCGGTACAAGTCCAACACCCTTTAAGGGCTCAGAG  
ATGGTGGTGGCTGGGAAGCTCCAGGACCAGGGTCTGATGTCCTTAGCCAAAGTCACTGGGCAGATGC  
ACATGCAGAACATCACTTTCAAACGGAGGCCAGCGTAGCCCAACAAGAGAAGGAGTTAAGAGCCCCAA  
GTACATCTTTCACAAGTATGAGAGACTGTGGGCACTGCTGACTATACAGCAACAGCTGGAGCAGAGG  
ATTTCAAGGTCAGGTGCCGAATTAGAGGCCCTCGAGGCCAAGTCTGAACTTGTCACTCAAGTACAATT  
TTGTACCCCTCTCACGCACATGGTGGTACCAAACTGAAGGTCAAGAACAATCCAAGTTGCTGAGAA  
GCCTGTGGAAGTCCGGTATGGCATGCAGAGACTCCCTTAGCAGCTCAAGCCACCCCTTCAAGCCTCCT  
GTCAGAGGATCTAAACTGATGACCGTGTGAAAGGAAGCAGGTCCAGATACCCAGACTCCGTGATGCCG  
TTAGGGCATCTAGGCAATACATTCCTCCCGGATCCCGGACCTCCTGGACCTCCCGGATTTCTGCACC  
TCCTGGACCTCCTGGATTTCTGCACCCCTGGACCTCCTTGTCTTCTGGCTCTGACTTCAGCCTTCAG  
CCTTCTATGAAAGGATGCTAAGCCTGCCCTCCGTTGAAAGCACCATACCAGAGGAATCCCCAAACCCAG  
ACCACCCCAAGTTCCTACTATTACCTTCCGCTTCCGGGATCCAGTGTGGACCAGCTCTGTGTGGATAT  
CTTACATTTCTGAGAAGCCATGAAGCTGTTCTGAGACCCAGTCAAGGCTGTGGAGTGTGAGGTTGATGAT  
GAGAATACTGGGTTCTCGTGGCTCGAAGTGACCATCCAGAAGCCTCACCTGCAGGTCCATGCAACCCCTG  
AACGACTGGTGGTGCACGAGGCAGAAAAAACAATGAATACAAGTGAAGAAGACGCTGTTCTCTGTGTT  
ACCTGGCTTGAAGATGACCATGAATATGATGGGACTCCTACAGCTCAGTGGCCAGACAAAGTCAACATC  
GGCCTCCTGTCCCTGGATGACCTCAGAGAGGACTAATGCTGCTTTTGAATGACACCCAGCACTTCTCCA  
ACAACGTTAAAGGGGAGCTTGGTCAAGTTTACCAGGACATCGTCTGGGAGCCACCCGTCGAGCCAGATAA  
TACAAAACGGACAGTCAAAGTTCAGGAGTTGACTACCTGGCTACCAGAGAGCTCAAGTTGAGTTACCAA  
GAAGGGTCCCAGGAGCAGAGATTTCTGCTGGACAGTGGAGATAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

<b>ACCN:</b>	NM_001289632
<b>Insert Size:</b>	2778 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001289632.1</a></u> , <u><a href="#">NP_001276561.1</a></u>
<b>RefSeq Size:</b>	3113 bp
<b>RefSeq ORF:</b>	2778 bp
<b>Locus ID:</b>	16427
<b>UniProt ID:</b>	<u><a href="#">A6X935</a></u>
<b>Cytogenetics:</b>	14 19.09 cM
<b>Gene Summary:</b>	<p>This gene encodes a member of the inter-alpha trypsin inhibitor (IaI) family of plasma serine protease inhibitors with diverse functions as anti-apoptotic and matrix stabilizing molecules during development. This gene is predominantly expressed in the liver and the encoded protein was found to be a plasma kallikrein-sensitive glycoprotein. This gene is located in a cluster of related inter alpha trypsin inhibitor genes on chromosome 14. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Oct 2015]</p> <p>Transcript Variant: This variant (3) lacks an in-frame exon in the 3' coding region, compared to variant 1. This difference results in a shorter protein (isoform 3), compared to isoform 1.</p>