

Product datasheet for **MC220968**

Itih4 (NM_001159299) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itih4 (NM_001159299) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Itih4
Synonyms:	ITI-HC4; Itih; Itih-4; PK-120
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220968 representing NM_001159299
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGAGCCCTGCCCTGCCACATGTGGAACCTTGTGCTGTTCTTGCCTTCACTGTTGGCTGTGCTTC
 CGACCACTACTGCCGAGAAGAATGGCATCGATATCTACAGCCTCACGGTGGACTCCCGGGTCTTCCCG
 ATTTGCCATACTGTTGTCAACGACCGGGTGGTCAACAGAGCCGATGCTGTTCAAGAAGCGACCTTCCAA
 GTAGAGCTACCCAGGAAAGCCTTCATCACCAACTTTTCCATGATCATCGATGGCGTGACCTACCCAGGGG
 TTGTCAAAGAGAAGGCCGGAAGCCAGAAACAATACAGTGCCGCCGTGGCAGGGGAGAGAGTGTGGCAT
 CGTCAAGACCACTGGGAGGCAGACAGAGAAGTTTGAAGTGTGAGTCAACGTGGCCCTGGTTCCAAGATT
 ACCTTCGAACATATACCAGGAACTGCTCCAAAGGCGACTGGGAATGTATGAGCTACTCCTCAAAGTGA
 GGCCTCAGCAGCTGGTGAAGCACCTTCAGATGGACATCTACATCTTTGAGCCTCAGGGTATTAGCATCCT
 GGAGACAGAGAGCACCTTCATGACCCCGAGCTGGCAAATGCCCTTACCCTTACAGAACAAAGACCAAG
 GCTCATATCCGGTCAAGCCGACGCTCTCCAGCAACAGAAGTCTCAGAGTGAGCAGGACACGGTGTGA
 ATGGGGACTTCATCGTCCGCTATGATGTCAACCGGTCTGACTCTGGGGTCCATTACAGATTGAGGAAGG
 CTACTTTGTGCACCACTTGTCTCCAGAGAACCCTTCTACAATGTCCAAGAATGTGATCTTTGTCAATTGAT
 AAAAGCGGATCTATGTCAGGCAAGAAAATCCAGCAGACCCGAGAAGCCCTAGTCAAGATCTTGAAGACC
 TCAGCCCCAAGACCACTTCAACCTCATTGAGTTCAGTGGGAAGCAAACCAATGGAAGCAGTCACTGGT
 GCAAGCGACAGAAGAGAATTTGAACAAGGCTGTAACCTATGCTTCCAGGATCCGGCTCACGGAGGGACC
 AACATCAATAATGCAGTGTGTTGGCTGTGGAGCTGTGGACAGAAGCAACCAAGTGAAGTACTGCCCT
 CGAAGACGCTCTCCCTTATCATCTGCTCACGGACGGTGAACCCACTGTGGGAGAACAACCCACCGAT
 TATCCAGAACAACGTGCCGGAAGCCATCAATGGGCAAGTATAGCCTCTTCTGCCTGGGGTTCGGCTTTGAT
 GTGAACATCCTTCTGGAAGAAGTGGCACTGGACAATGGTGGCCTGGCCAGGCGCATCTATGAGGATT
 CAGACTCTGCACTGCAGCTTCAAGATTTCTACCACGAAGTAGCCAATCCACTGCTCTCATCAGTGGCCTT
 CGAATACCCCACTGATGCTGTGGAGGAAGTCACTCGGTACAAGTCCAACACCCTTTAAGGGCTCAGAG
 ATGGTGGTGGCTGGGAAGCTCCAGGACCAGGGTCTGATGTCCTTATAGCCAAAGTCACTGGGCAGATGC
 ACATGCAGAACATCACTTTCAAACGGAGGCCAGCGTAGCCCAACAAGAGAAGGAGTTTAAAGGCCCAA
 GTACATCTTTCACAACCTTATGGAGAGACTGTGGGCACTGCTGACTATACAGCAACAGCTGGAGCAGAGG
 ATTTCAAGCTCAGGTGCCGAATTAGAGGCCCTCGAGGCCCAAGTCTGAACCTTGTCACTCAAGTACAATT
 TTGTACCCCTCTCACGCACATGGTGGTACCAAACTGAAGGTCAAGAACAATCCAAGTTGCTGAGAA
 GCCTGTGGAAGTCGGTGTGGCATGCAGAGACTCCCTTAGCAGCTCAAGCCACCCCTTCAAGCCTCCT
 GTCAGAGGATCTAAACTGATGACCGTGTGAAAGGAAGCAGGTCCAGATACCCAGACTCGGTGATGCCG
 TTAGGGCATCTAGGCAATACATTCCTCCCGGATCCCGGACCTCCTGGACCTCCCGGATTTCTGCACC
 TCCTGGACCTCCTGGATTTCTGCACCCCTGGACCTCCTTGTCTTCTGGCTCTGACTTCAGCCTTCAG
 CCTTCTATGAAAGGATGCTAAGCCTGCCCTCCGTTGCACAATATCCTGCTGACCCACATCTGGTTGTGA
 CGGAAAAAAGTAAAGAAAGCACCATACCAGAGGAATCCCAAAACCAGACCACCCCAAGTTCTACTAT
 TACCTTGGCGCTTCCGGGATCCAGTGTGGACAGCTCTGTGTGGATATCTTACATTTGAGAAGCCCATG
 AAGCTGTTGCTAGACCCAGTCAAGGTCTGGAGGTGACTGGTAAGTATGAGAATACTGGGTTCTCGTGGC
 TCGAAGTGACCATCCAGAAGCCTCACCTGCAGGTCCATGCAACCCTGAACGACTGGTGGTGACACGAGG
 CAGAAAAAAGTGAATACAAGTGAAGAAGACGCTGTTCTGTGTTACCTGGCTTGAAGATGACCATG
 AATATGATGGGACTCCTACAGCTCAGTGGCCAGACAAAGTCAACATCGGCTCCTGTCCCTGGATGACC
 CTCAGAGAGGACTAATGCTGCTTTTGAATGACACCCAGCACTTCTCAACAACGTTAAAGGGGAGCTTGG
 TCAGTTTTACCGGACATCGTCTGGGAGCCACCCGTCGAGCCAGATAATACAAAACGGACAGTCAAAGTT
 CAAGGAGTTGACTACCTGGCTACCAGAGAGCTCAAGTTGAGTTACCAAGAAGGGTCCAGGAGCAGAGA
 TTTCTGCTGGACAGTGGAGATA**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN:	NM_001159299
Insert Size:	2826 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:	<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_001159299.2</u> , <u>NP_001152771.1</u>
RefSeq Size:	3161 bp
RefSeq ORF:	2826 bp
Locus ID:	16427
UniProt ID:	<u>A6X935</u>
Cytogenetics:	14 19.09 cM
Gene Summary:	<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 (2) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. This difference results in a protein (isoform 2) that is 1 amino acid shorter than isoform 1.</p>