

Product datasheet for **SC118757**

ITIH4 (NM_002218) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	ITIH4
Synonyms:	GP120; H4P; IHRP; ITI-HC4; ITIHL1; PK-120; PK120
Mammalian Cell	None
Selection:	
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



Fully Sequenced ORF:

>OriGene ORF within SC118757 sequence for NM_002218 edited (data generated by NextGen Sequencing)

ATGAAGCCCCAAGGCCTGTCCGTACCTGCAGCAAAGTTCTCGTCCTGCTTTCACTGCTG
GCCATCCACCAGACTACTACTGCCGAAAAGAATGGCATCGACATCTACAGCCTCACCCTG
GACTCCAGGGTCTCATCCGATTTGCCACACGGTCGTACCAGCCGAGTGGTCAATAGG
GCCAATACTGTGCAGGAGGCCACCTTCCAGATGGAGCTGCCAAGAAAGCCTTCATCACC
AACTTCTCCATGATCATCGATGGCATGACCTACCCAGGGATCATCAAGGAGAAGGCTGAA
GCCCAGGCACAGTACAGCGCAGCAGTGGCCAAGGAAAGAGCGCTGGCCTCGTCAAGGCC
ACCGGGAGAAACATGGAGCAGTTCAGGTGTGGTCACTGTGGCTCCCAATGCCAAGATC
ACCTTTGAGCTGGTCTATGAGGAGCTGTCAAGCGGCGTTTGGGGGTGTACGAGCTGCTG
CTGAAAGTGGCGCCCCAGCAGCTGGTCAAGCACCTGCAGATGGACATTACATCTTCGAG
CCCCAGGGCATCAGCTTTCTGGAGACAGAGACCTTCATGACCAACCAGCTGGTAGAC
GCCCTCACCACCTGGCAGAATAAGACCAAGGCTCACATCCGGTTCAAGCCAACACTTTCC
CAGCAGCAAAGTCCCCAGAGCAGCAAGAAACAGTCTGGACGGCAACCTCATTATCCGC
TATGATGTGGACCGGGCCATCTCCGGGGTCCATTAGATCGAGAACGGCTACTTTGTA
CACTACTTTGCCCCGAGGGCCTAACCCACAATGCCAAGAATGTGGTCTTTGTATTGAC
AAGAGCGGCTCCATGAGTGGCAGGAAAATCCAGCAGACCCGGGAAGCCCTAATCAAGATC
CTGGATGACCTCAGCCCCAGAGACCACTTCAACCTCATCGTCTTCACTACAGAAGCAACT
CAGTGGAGGGCCATCACTGGTCCAGCCTCAGCCGAGAACGTGAACAAGGCCAGGAGCTTT
GCTGCCGGGCATCCAGGCCCTGGGAGGGACCAACATCAATGATGCAATGCTGATGGCTGTG
CAGTTGCTGGACAGCAGCAACCAGGAGGAGCGGCTGCCGAAGGGAGTGTCTCACTCATC
ATCCTGCTCACCAGTGGCGACCCACTGTGGGGAGACTAACCCAGGAGCATCCAGAAT
AACGTGCGGGAAGCTGTAAGTGGCCGTACAGCCTCTTCTGCCTGGGCTTCGGTTTCGAC
GTCAGCTATGCCTTCTGGAGAAGCTGGCACTGGACAATGGCGGCCTGGCCCGGCGCATC
CATGAGGACTCAGACTCTGCCCTGCAGCTCCAGGACTTCTACCAGGAAGTGGCCAACCCA
CTGCTGACAGCAGTGACCTTCGAGTACCAAGCAATGCCGTGGAGGAGTCACTCAGAAC
AACTTCCGGCTCCTCTTCAAGGGCTCAGAGATGGTGGTGGCTGGGAAGCTCCAGGACCGG
GGGCTGATGTGCTCACAGCCACAGTCAGTGGGAAGCTGCCTACACAGAACATCACTTTC
CAAACGGAGTCCAGTGTGGCAGAGCAGGAGGCGGAGTTCAGAGCCCCAAGTATATCTTC
CACAACCTTCATGGAGAGGCTCTGGGCATACCTGACTATCCAGCAGTCTGGAGCAAACT
GTCTCCGCATCCGATGCTGATCAGCAGGCCCTCCGGAACCAAGCGTGAATTTTCACTT
GGCTACAGCTTTGTACGCCTCTCATCTATGGTAGTCACCAAAACCCGATGACCAAGAG
CAGTCTCAAGTTGCTGAGAAGCCCATGGAAGGCGAAAGTAGAAACAGGAATGTCCACTCA
GGTTCACCTTTCTTCAATATTATCTCCAGGGAGCAAAAATACCAAAACAGAGGCTTCC
TTTTCTCAAGAAGAGGATGGAATAGACAAGCTGGAGCTGCTGGCTCCCGGATGAATTTTC
AGACCTGGGGTTCTCAGCTCCAGGCAACTTGGACTCCAGGACCTCTGATGTTCTCTGAC
CATGCTGCTTACCACCCCTTCCGCCGTCTGGCCATCTTGCCTGCTTCAGCACCACCAGCC
ACCTCAAACTCTGATCCAGCTGTGTCTCGTGTCTATGAATATGAAAATCGAAGAAACAACC
ATGACAACCAAAACCCAGCCCCATACAGGCTCCCTCTGCCATCCTGCCACTGCCTGGG
CAGAGTGTGGAGCGGCTCTGTGTGGACCCAGACACCGCCAGGGGCCAGTGAACCTGCTC
TCAGACCTGAGCAAGGGGTTGAGGTGACTGGCCAGTATGAGAGGGAGAAGGCTGGGTTC
TCATGGATCGAAGTGACCTTCAAGAACCCCTGGTATGGGTTACGCATCCCTTGAACAC
GTGGTGGTGACTCGGAACCGAAGAAGCTCTGCGTACAAGTGAAGGAGACGCTATTCTCA
GTGATGCCCGGCTGAAGATGACCATGGACAAGACGGGTCTCTGCTGCTCAGTGACCCA
GACAAAGTGACCATCGGCTGTTGTTCTGGGATGGCGTGGGAGGGGCTCCGGCTCCTT
CTGCGTGACACTGACCGCTTCTCCAGCCACGTTGGAGGGACCTTGGCCAGTTTACCAG
GAGGTGCTCTGGGATCTCCAGCAGCATCAGATGACGGCAGACGACGCTGAGGGTTACAG
GGCAATGACCACTCTGCCACCAGAGAGCGCAGGCTGGATTACCAGAGGGGCCCGCGGA
GTGGAGATTTCTGCTGGTCTGTGGAGCTGTAG

Clone variation with respect to NM_002218.4

5' Read Nucleotide

Sequence:

>OriGene 5' read for NM_002218 unedited
 AGAAATTTGTAATACGACTCACTATAGNNGGCGGCCGCAATTTCGGCACGAGGGCTGGC
 ACTGTCAGAAGCCTCCTGGCAGACACTGGAGCCACGATGAAGCCCCAGGCCTGTCCGTA
 CCTGCAGCAAAGTTCTCGTCCTGCTTTCAGTCTGGCCATCCACCAGACTACTACTGCCG
 AAAAGAATGGCATCGACATCTACAGCCTCACCGTGGACTCCAGGGTCTCATCCGATTG
 CCCACACGGTCGTCACCAGCCGAGTGGTCAATAGGGCCAATACTGTGCAGGAGGCCACCT
 TCCAGATGGAGCTGCCAAGAAAGCCTTCATCACCAACTTCTCCATGATCATCGATGGCA
 TGACCTACCCAGGGATCATCAAGGAGAAGGCTGAAGCCCAGGCACAGTACAGCGCAGCAG
 TGGCCAAGGAAAGAGCGCTGGCCTCGTCAAGGCCACCGGGAGAAACATGGAGCAGTTCC
 AGGTGTCGGTCAGTGTGGCTCCCAATGCCAAGATCACCTTTGAGCTGGTCTATGAGGAGC
 TGCTCAAGCGGCGTTTGGGGGTGTACGAGCTGCTGTGAAAGTGCGGCCCCAGCAGCTGG
 TCAAGCACCTGCAGATGGACATTACATCTTCGAGCCCCAAGGCATCAGCTTTCTGGAGA
 CAGAGAGCACCTTCATGACCAACCAGCTGGTAGACGCCCTCACCACTGGCAGAATAAGA
 CCAAAGCTCACATACCGTTCAAGCCAACACTTTTCCAGCACCAAAAAGTCCCCAGAGCA
 ACAAAGAAACAGTCCTGGAACGGCAACCTCATTATCCGCTATGATGGTGAACCGGCCCTC
 TCCGGGGCTTCCATTAAATGAGAACGCTACTTTGTACACTC

3' Read Nucleotide

Sequence:

>OriGene 3' read for NM_002218 unedited
 GCACGGCCTATANATCGAGTT
 TTTTTTTTTTCCAGGCTAACACCACCTTTTTTTTTTTTGAATGAGGGGACTTTTCCT
 CCCCATGGGGGTCCAGGCCCAAAAGCGGCCCTGCATTTCAGGGGGAACCCAATTGTAC
 AGGGGGGGCACAGTTCTTCTTTAAACTACAGCTCCACAAACCAGCAGGAATCTCCA
 CTCCCGGGGGCCCTCCTGGTAATCCACCCTGCCCTTTTGGGGGAAAAGGGTCATTGC
 CCTGAACCTTAAAGGGGCGTTTGCCGTCATTGATGCTGCTGGAATCCCAAAAGCACCT
 CCTGAAAAACTGGCCAAGGGTCCCTCCAACGTGGTTGAAAAACCGGTCAAGTGTACCCA
 AAAGGACCCGGAGCCCCCTCCACGGCCATCCCAAAACAACAGGCCGATGGTCACTTTGT
 CTGGGCCACTGACCAGCAGGAACCCGTTTGTCCATGGTCATTTAAGGCCGGGCATCA
 CTGAAAATAACGTCTCCTTCCACTTGACCCAAAGCTTTTCGGTTCGATTACCCAC
 GTGTTCAAGGGATGCGTGAACCCTTACCAGGGGGCTTTTGAAGGGCACTTTAAACCATGA
 GAACCAACTCTTTCCTTTTATATGGGCAATCACCTTAACCCCTTGTTAAGGGTCTAAA
 AACAGTTTACTGGCCCCTGACGGGTTTGGGGCCACCAAACTCTCACCTTTCCCAACA
 TGGAAATAGGAAAGAGAACCTTTAGGGGGCGAGGTTGGCTTCAAAGCGCTTTCTCATTTC
 AATTCCAACAAAAAATTGGTAAGATTAAAGGGTGGGGTGTCTAACCGCAATATCCCAA
 CGGGAAGGGTAAAAACAAGGACAAAATTAAGAGCCCGGACACAACCTCCCGAAA

Restriction Sites:

NotI-NotI

ACCN:

NM_002218

Insert Size:

3460 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_002218.3](#), [NP_002209.2](#)

RefSeq Size: 3260 bp

RefSeq ORF: 2793 bp

Locus ID: 3700

UniProt ID: [Q14624](#)

Cytogenetics: 3p21.1

Domains: VWA, VIT

Gene Summary:

The protein encoded by this gene is secreted into the blood, where it is cleaved by plasma kallikrein into two smaller forms. Expression of this gene has been detected only in liver, and it seems to be upregulated during surgical trauma. This gene is part of a cluster of similar genes on chromosome 3. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2009]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).