

## Product datasheet for **SC329001**

### ITIH1 (NM\_001166435) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ITIH1 (NM_001166435) Human Untagged Clone
Tag:	Tag Free
Symbol:	ITIH1
Synonyms:	H1P; IATIH; IGHEP1; ITI-HC1; ITIH; SHAP
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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<b>Fully Sequenced ORF:</b>	<p>&gt;NCBI ORF sequence for NM_001166435, the custom clone sequence may differ by one or more nucleotides</p> <pre> ATGAACAAGAACGTGGTTTTTGTGATTGACATCAGTGGCTCCATGAGAGGCCAGAAAAGTG AAGCAGACCAAGGAGGCACTCCTAAAATTCTGGGGGACATGCAGCCAGGGGACTACTTT GACCTGGTTCTTTTTGGGACTCGAGTACAATCGTGAAGGGCTCGCTGGTGAAGCATCT GAGGCCAACCTACAAGCAGCTCAAGACTTTGTGCGGGGCTTTCCCTGGATGAGGCCACA AACCTGAATGGAGTTTTGCTCCGGGGAATTGAGATCTTGAACCAAGTTCAGGAAAGCCTC CCAGAACTCAGCAACCATGCCTCAATACTCATCATGTTGACAGATGGCGATCCCACAGAG GGGGTGACGGACCGTTCCCAAATCCTCAAGAACGTCCGCAACGCCATCCGGGGCAGGTTC CCGCTCTACAACCTGGGTTTCGGCCACAATGTGGACTTTAACTTTCTGGAGGTGATGTCC ATGAGAAACAACGGACGGGCCAGAGAATCTACGAGGACCATGATGCCACCCAGCAGCTG CAGGGTTTCTACAGCCAGGTAGCCAAACCCTGCTGGTGGATGTGGATTTGCAGTACCC CAGGATGTGTCTTGGCCCTGACCCAGAACCACCATAAACAGTACTACGAAGGCTCAGAG ATTGTGGTGGCCGGCGCATTGCTGACAACAAACAGAGCAGCTTCAAGGCTGATGTGCAG GCCCATGGGGAGGACAAGAATTCAGTATAACCTGCCTAGTGGATGAGGAGGAGATGAAG AAACTGCTCCGAGAGCGTGGCCACATGCTGGAGAACCACGTCGAGCGCCTCTGGGCTAC CTCACCATCCAGGAGCTGCTGGCCAAGCGGATGAAGGTGGACAGGGAGGAGGGCCAAC CTGTATCCCAGGCCCTGCAGATGTGCTGGACTATGGGTTTGTGACCCCACTGACCTCC ATGAGCATCAGGGGATGGCGGACCAGGACGGCCTGAAGCCCACCATCGACAAGCCCTCA GAGGATTTCTCCGCTTTGGAGATGCTGGGACCCAGAAGGACGTTTCGTGTGTGACGCTTG CAGCCTTCTCCTACTCATTCCAGCTCCAATACCCAGCGGCTGCCAGACCGAGTGACCGGC GTGGACACAGACCCTCACTTCATCATCCACGTGCCCCAGAAAGAGGACACCCTGTGCTTC AACATCAATGAGGAGCCTGGTGTATCCTGAGCCTGGTACAGGACCCCAACACAGGCTTC TCAGTGAATGGACAGCTCATTGGCAACAAGGCCAGGAGCCCTGGGCAGCATGACGCGACG TACTTCGGGGCGGCTGGGAATCGCAAACCCTGCCACGGACTTTCAGTTGGAAGTACTCCT CAGAACATTACGCTGAACCCCGGCTTTGGTGGGCTGTGTTTTCTGGAGGGACCAAGCT GTGCTGCGGCAGGACGGGGTGGTGGTGACCATCAACAAGAAGAGGAACCTGGTGGTGTCT GTGGACGACGGTGGCACCTTTGAGGTTGTTTTGCACCGAGTGTGGAAGGGGAGCTCGGTC CACCAGGACTTCTGGGCTTCTATGTGCTGGACAGTCATCGGATGTCAGCCCGGACGCAC GGGCTGTGGGGCAATTTTTCCACCCCATCGGTTTTGAAGTGTCTGACATCCACCCAGGC TCTGACCCCAAAAGCCAGATGCCACGATGGTGGTGGGAACCGCCGGCTCACGGTCACC AGGGGTTTGCAAAAAGACTACAGCAAGGACCCGTGGCATGGGGCCGAGGTGTCCTGCTGG TTCATTACAACAATGGGGCTGGACTCATCGATGGTGCCTACACTGATTATATCGTCCCC GACATCTTCTGA </pre>
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_001166435
<b>Insert Size:</b>	2493 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>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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).

**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\\_001166435.1](#), [NP\\_001159907.1](#)

**RefSeq Size:** 2493 bp

**RefSeq ORF:** 2493 bp

**Locus ID:** 3697

**UniProt ID:** [P19827](#)

**Cytogenetics:** 3p21.1

**Protein Families:** Transmembrane

**Gene Summary:** This gene encodes a member of the inter-alpha-trypsin inhibitor family of proteins. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the heavy chain of the inter-alpha-trypsin inhibitor complex, which is secreted by hepatocytes into the blood. The heavy chain also interacts with hyaluronan, and this interaction may play a role in ovulation and fertilization, and has been implicated in multiple inflammatory diseases. This gene is present in a gene cluster on chromosome 3. [provided by RefSeq, Nov 2015]  
Transcript Variant: This variant (3) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (c) has a shorter N-terminus and lacks a predicted signal peptide compared to isoform a. Both variants 3 and 4 ncode isoform c.