

## Product datasheet for **RG230577**

### ITIH4 (NM\_001166449) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ITIH4 (NM_001166449) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ITIH4
Synonyms:	GP120; H4P; IHRP; ITI-HC4; ITIHL1; PK-120; PK120
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG230577 representing NM\_001166449  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAGCCCCAAGGCCTGTCCGTACCTGCAGCAAAGTTCTCGTCTGCTTTCACTGCTGGCCATCCACC  
 AGACTACTACTGCCGAAAAGAATGGCATCGACATCTACAGCCTCACCGTGGACTCCAGGGTCTCATCCCG  
 ATTTGCCACACGGTCGTCACCAGCCGAGTGGTCAATAGGGCCAATACTGTGCAGGAGGCCACCTTCCAG  
 ATGGAGCTGCCAAGAAAGCCTTCATCACCAACTTCTCCATGATCATCGATGGCATGACCTACCCAGGGA  
 TCATCAAGGAGAAGGCTGAAGCCAGGCACAGTACAGCGCAGCAGTGGCCAAGGAAAGAGCGCTGGCCT  
 CGTCAAGGCCACCGGAGAAACATGGAGCAGTTCAGGTGTGGTCAGTGTGGCTCCCAATGCCAAGATC  
 ACCTTTGAGCTGGTCTATGAGGAGCTGCTCAAGCGGCGTTTGGGGGTGTACGAGCTGCTGCTGAAAGTGC  
 GGCCCCAGCAGCTGGTCAAGCACCTGCAGATGGACATTCACATCTTCGAGCCCCAGGGCATCAGCTTTCT  
 GGAGACAGAGAGCACCTTCATGACCAACCAGCTGGTAGACGCCCTCACCACTGGCAGAATAAGACCAAG  
 GCTCACATCCGGTTCAAGCCAACACTTTCCAGCAGCAAAAGTCCCCAGAGCAGCAAGAAACAGTCTGG  
 ACGGCAACCTCATTATCCGCTATGATGTGGACCGGCCATCTCCGGGGTCCATTTCAGATCGAGAACGG  
 CTACTTTGTACTACTTTGCCCCGAGGGCTAACCAATGCCAAGAATGTGGTCTTTGTCATTGAC  
 AAGAGCGGCTCCATGAGTGGCAGGAAAATCCAGCAGACCCGGGAAGCCCTAATCAAGATCCTGGATGACC  
 TCAGCCCCAGAGACCAGTTCAACCTCATCGTCTTCAGTACAGAAGCAACTCAGTGGAGGCCATCACTGGT  
 GCCAGCCTCAGCCGAGAAGCTGAACAAGGCCAGGAGCTTGTGCGGGCATCCAGGCCCTGGGAGGGACC  
 AACATGATGCAATGCTGATGGCTGTGCAGTTGCTGGACAGCAGCAACCAGGAGGAGCGGCTGCCCG  
 AAGGGAGTGTCTACTCATCATCTGCTCACCGATGGCAGCCCACTGTGGGGGAGACTAACCCAGGAG  
 CATCCAGAATAACGTGCGGGAAGCTGTAAGTGGCCGGTACAGCCTCTTCTGCCTGGGCTTCGGTTTCGAC  
 GTCAGCTATGCCTTCTGGAGAAGCTGGCACTGGACAATGGCGGCTGGCCCCGGGCATCCATGAGGACT  
 CAGACTCTGCCCTGCAGCTCCAGGACTTCTACCAGGAAGTGGCAACCCACTGCTGACAGCAGTACCTT  
 CGAGTACCAAGCAATGCCGTGGAGGAGTCACTCAGAACAATTCGGGCTCCTTTCAGAGGCTCAGAG  
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 CTACACAGAACATCACTTCCAACGGAGTCCAGTGTGGCAGAGCAGGAGGCGGAGTTCAGAGCCCCAA  
 GTATATCTCCACAATTCATGGAGAGGCTCTGGGCATACCTGACTATCCAGCAGCTGCTGGAGCAAAT  
 GTCTCCGCATCCGATGCTGATCAGCAGGCCCTCCGGAACCAAGCGCTGAATTTATCACTTGCTACAGCT  
 TTGTCACGCCTCTCACATCTATGGTAGTACCAAAACCCGATGACCAAGAGCAGTCTCAAGTTGCTGAGAA  
 GCCCATGGAAGGCGAAAGTAGAAACAGGAATGTCCACTCAGCTGGAGCTGCTGGTCCCAGGATGAATTT  
 AGACCTGGGGTTCAGCTCCAGGCAACTTGGACTCCCAGGACCTCCTGATGTTCCCTGACCATGCTGCTT  
 ACCACCCCTTCGCGCTCTGGCCATCTTGCTGCTTCAGCACCACCCAGCCACCTCAAATCCTGATCCAGC  
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 GCTCCCTCGCCATCCTGCCACTGCCTGGGAGAGTGTGGAGCGGCTCTGTGTGGACCCAGACACCGCC  
 AGGGGCCAGTGAACCTGCTCTCAGACCTGAGCAAGGGTTGAGGTGACTGGCCAGTATGAGAGGGAGAA  
 GGCTGGGTTCTCATGGATCGAAGTGACCTTCAAGAACCCCTGGTATGGGTTACGCATCCCCTGAACAC  
 GTGGTGGTGACTCGGAACCGAAGAAGCTCTGCGTACAAGTGAAGGAGAGCGTATTCTCAGTGTGCCCCG  
 GCCTGAAGATGACCATGGACAAGACGGGTCTCCTGCTGCTCAGTACCCAGACAAAGTGACCATCGGCC  
 GTTGTCTGGGATGGCCGTGGGAGGGGCTCCGGCTCCTTCTGCGTGACTGACCGCTTCTCCAGCCAC  
 GTTGGAGGGACCTTGGCCAGTTTTACCAGGAGGTGCTCTGGGGATCTCCAGCAGCATCAGATGACGGCA  
 GACGCACGCTGAGGGTTCAGGGCAATGACCACTCTGCCACCAGAGAGCGCAGGCTGGATTACCAGGAGGG  
 GCCCCGGGAGTGGAGATTTCTGCTGGTCTGTGGAGCTG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - **GTTTAA**

**Protein Sequence:** >RG230577 representing NM\_001166449  
 Red=Cloning site Green=Tags(s)

MKPPRPVRTCSKVLVLLSLLAIHQTTTAEKNGIDIYSLTVDSRVSSRFAHTVVTSRVVNRANTVQEATFQ  
 MELPKKAFITNFSMIIDGMTYPGIIKEKAEQAQYSAAVAKGKSAGLVKATGRNMEQFQVSVVAPNAKI  
 TFELVYEELLKRRLLGVYELLKVRPQQLVKHLQMDIHFEPQGISFLETESTFMTNQLVDALTTWQNKTK  
 AHIRFKPTLSQQQKSPEQQETVLDGNLIIRYDVDRAISGGSIQIENGYFVHYFAPEGLTTPKNNVVFID  
 KSGSMSGRKIQQTREALIKILDDLSPRDQFNLIIVFSTEATQWRPSLPASAENVNKARSFAAGIQALGGT  
 NINDAMLMAVQLLDSSNQEERLEPGSVSLIILLTDGDPVGETNPRSIQNNVREAVSGRYSFLCLGFGFD  
 VSYAFLEKLALDNGGLARRIHEDSDSALQLQDFYQEVANPLLTAVTFEYPSNAVEEVTQNNFRLLFKGE  
 MVVAGKQLQDRGPDVLTATVSGKLPQNTITFQTESSVAEQEAEFQSPKYIFHNFMERLWAYLTIQQLLEQT  
 VSASDAQQALRNQALNLSLAYSFVTPLTSMVVTKPDDQEQSQVAEKPMEGESRNRNVHSAGAAGSRMNF  
 RPGVLSRQLGLPGPPDVPDHAAYHPFRRLAILPASAPPATSNPDPAVSRVMMKIEETTMTTQTPAPIQ  
 APSAILPLPGQSVRLCVDPRHRQGPVNLSDPEQGVETGQYEREKAGFSWIEVTFKNPLVWVHASPEH  
 VVTRNRRSSAYKWKETLFSVMPGLKMTMDKTGLLLLSDPKVTIGLLFWDGRGEGLRLLLRDTRDFSSH  
 VGGTLGQFYQEVWLGSPAASDDGRRTL RVQGNHDSATRERRLDYQEGPPGVEISCSWSVEL

TRTRPLE - GFP Tag - V

**Restriction Sites:**

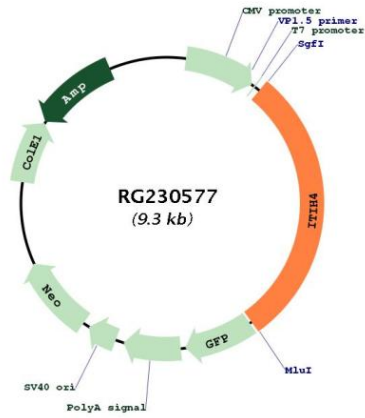
SgfI-MluI

**Cloning Scheme:**



<b>ACCN:</b>	NM_001166449
<b>ORF Size:</b>	2700 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001166449.1</a> , <a href="#">NP_001159921.1</a>
<b>RefSeq Size:</b>	3193 bp
<b>RefSeq ORF:</b>	2703 bp
<b>Locus ID:</b>	3700
<b>UniProt ID:</b>	<a href="#">Q14624</a>
<b>Cytogenetics:</b>	3p21.1
<b>Gene Summary:</b>	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]

Product images:



Circular map for RG230577