

## Product datasheet for **SC100225**

### Inosine triphosphate pyrophosphatase (ITPA) (NM\_033453) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Inosine triphosphate pyrophosphatase (ITPA) (NM_033453) Human Untagged Clone
Tag:	Tag Free
Symbol:	Inosine triphosphate pyrophosphatase
Synonyms:	C20orf37; DEE35; dj79416.3; HLC14-06-P; ITPase; My049; NTPase
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC100225 sequence for NM_033453 edited (data generated by NextGen Sequencing) ATGGCGCCTCATTGGTGGGAAGAAGATCGTGTTTGTAAACGGGAACGCCAAGAAGCTG GAGGAGGTCGTTTCAGATTCTAGGAGATAAGTTTCCATGCACTTTGGTGGCACAGAAAATT GACCTGCCGGAGTACCAGGGGAGCCGGATGAGATTTCCATACAGAAATGTCAGGAGGCA GTTTCGCCAGGTACAGGGGCCGCTGCTGGTTGAGGACACTTGTCTGTGCTTCAATGCCCTT GGAGGGCTCCCCGGCCCCACATAAAGTGGTTTCTGGAGAAGTTAAAGCCTGAAGGTCTC CACCAGCTCCTGGCCGGTTTCGAGGACAAGTCAGCCTATGCGCTCTGCACGTTTGCACCT AGCACCGGGACCCAAGCCAGCCCGTGCCTGTTTCAGGGCCGGACCTCGGGCCGGATC GTGGCACCCAGAGGCTGCCAGGACTTTGGCTGGGACCCCTGCTTTCAGCCTGATGGATAT GAGCAGACGTACGCAGAGATGCCTAAGGCGGAGAAGAACGCTGTCTCCCATCGCTCCGG GCCCTGCTGGAGCTGCAGGAGTACTTTGGCAGTTTGGCAGCTTGA
	Clone variation with respect to NM_033453.2



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_033453 unedited  
 TGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGTTTTCGGTGGCTCAG  
 CTGGGTAACCGGGGATCACCATGGCGGCCTCATTGGTGGGGAAGAAGATCGTGTTTGTA  
 CCGGGAACGCCAAGAAGCTGGAGGAGTTCAGATTCTAGGAGATAAGTTTCCATGCA  
 CTTTGGTGGCACAGAAAATTGACCTGCCGGAGTACCAGGGGGAGCCGGATGAGATTTCCA  
 TACAGAAATGTCAGGAGGCAGTTCCGCCAGTACAGGGGCCCGTGTGGTTGAGGACACTT  
 GTCTGTGCTTCAATGCCCTTGGAGGGCTCCCGGCCCTACATAAAGTGGTTTCTGGAGA  
 AGTTAAAGCCTGAAGGTCTCCACCAGCTCCTGGCCGGTTTCGAGGACAAGTCAGCCTATG  
 CGCTCTGCACGTTTGACTCAGCACCGGGACCCAAGCCAGCCCGTGCCTGTTTCAGGG  
 GCCGGACCTCGGGCCGGATCGTGGCACCCAGAGGCTGCCAGGACTTTGGCTGGGACCCCT  
 GCTTTCAGCCTGATGGATATGAGCAGACGTACGCAGAGATGCCTAAGGCGGAGAAGAACG  
 CTGTCTCCCATCGCTTCCGGGCCCTGCTGGAGCTGCAAGAGTACTTTGGCAGTTTGGCAG  
 CTTGACTTCTGCAGCTGGAGGAGCNCCTCAGCCGNGATCTGGGAGGGCTACCCCAA  
 ACCTCCCGCATCGGGCAGGCACCCCTGAGTACTTCTTCAAGGTTCCCTTGTGAGGT  
 GTCGAGTACCTCACCGCCCTTCTGGAGGACACCTGGTCTGCTCTGAAAACCTCGCGAGTG  
 CACCCCTCTGCGCCTTAGATCACTGTTTCTCTAAACCCAGCCTGGGTCTGAAAGACCT  
 TGGGGAAACTTACTCGGGG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_033453 unedited  
 CTTGGACGCGCCGCTATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTCAAACAAATATA  
 GCTGGTTTATTTTGGAAACAAGTCTCATCAAAAATGTTATTTACTGCATTTAAAAACCA  
 TGGAAGGCGATTTGCATGGTTCCCTCCACGCCCTCACTCCACCAAGTACAGCTTTACC  
 ACCCAAGTCTTTTCAAGACCCAGGCCTGGCGGCTGTAGGAAAGAGCAGTGAATCCTAA  
 GGGCAAGAGAATGGCGTCCACTTGCCAAAGTTTCTCAAAGCAGAGCCAGCTGCTCCTCCA  
 GACAGGCCGTTGAGGCTACTCGACACCCTCACAAAGGGGAAACCTGAAGGAAGTACTTC  
 AGGGGGTGCCTGCCCGATGCGGGAGGTTTTGGGCTAGCCCTCCCCAGATCCCGGCCGTA  
 GGGGCCTCCTCCAGCTGCAGAAGTCAAGCTGCCAAACTGCCAAAGTACTCCTGCAGCTCC  
 AGCAGGGCCCGGAAGCGATGGGAGACAGCGTCTTCTCCGCCTTAGGCATCTCTGCGTAC  
 GTCTGCTCATATCCATCAGGCTGAAAGCAGGGTCCCAGCCAAAGTCTTGGCAGCCTCTG  
 GGTGCCACGATCCGGCCCGAGGTCGGCCCTGAACAGGCGCACGGCTGGCTTGGGTCC  
 CCGGTGCTGAGTGCAAACGTGCAGAGCGCATAGGCTGACTTGTCTCGAACCAGCCGCGAGG  
 AGCTTGTGGAGACCTTTCAGGCTTTAACTTCTCCAGAAACCACTTTATGTAGGGGCCGCG  
 AGCCCTCAAGGGCATCGAAAGCCAGAAAAGGTGTCTTAACCACCACCGCCCTGTC  
 CTTGACGAACTGCCTCCTGCCCTTCTGTACGAAAATCCACTCGGCTCCCTCTGGTACT  
 CCGGCAGGTCCATTTTGGTCCACCAACCGCTCGCAAACCTATTTTCGTATACCCGAACG  
 ACCTCCTCCCGCTTTCGCCCTCCCGCCAATCCCATC

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_033453

**Insert Size:**

1070 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:**

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\\_033453.2](#), [NP\\_258412.1](#)

**RefSeq Size:** 1206 bp

**RefSeq ORF:** 585 bp

**Locus ID:** 3704

**UniProt ID:** [Q9BY32](#)

**Cytogenetics:** 20p13

**Domains:** Ham1p\_like

**Protein Families:** Druggable Genome

**Protein Pathways:** Drug metabolism - other enzymes, Metabolic pathways, Purine metabolism, Pyrimidine metabolism

**Gene Summary:** This gene encodes an inosine triphosphate pyrophosphohydrolase. The encoded protein hydrolyzes inosine triphosphate and deoxyinosine triphosphate to the monophosphate nucleotide and diphosphate. This protein, which is a member of the HAM1 NTPase protein family, is found in the cytoplasm and acts as a homodimer. Defects in the encoded protein can result in inosine triphosphate pyrophosphorylase deficiency which causes an accumulation of ITP in red blood cells. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jun 2012]  
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a).