

## Product datasheet for **RG215516**

### Inosine triphosphate pyrophosphatase (ITPA) (NM\_181493) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Inosine triphosphate pyrophosphatase (ITPA) (NM\_181493) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** ITPA  
**Synonyms:** C20orf37; DEE35; dj79416.3; HLC14-06-P; ITPase; My049; NTPase  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG215516 representing NM\_181493  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGGCCTCATTGGTCGTTCTAGGAGATAAGTTTCCATGCACAAAATTG  
 ACCTGCCGGAGTACCAGGGGAGCCGGATGAGATTTCCATACAGAAATGTCAGGAGGCAGTTCGCCAGGT  
 ACAGGGGCCCGTGTGGTTGAGGACACTGTCTGTCTCAATGCCCTTGGAGGGCTCCCGGCCCTAC  
 ATAAAGTGGTTTCTGGAGAAGTTAAAGCCTGAAGGTCTCCACCAGCTCCTGGCCGGTTCGAGGACAAGT  
 CAGCCTATGCGCTCTGCACGTTTGCACCTCAGCACCGGGACCCAAGCCAGCCCGTGCCTGTTCCAGGGG  
 CCGGACCTCGGGCCGGATCGTGGCACCCAGAGGCTGCCAGGACTTTGGCTGGGACCCCTGCTTTCAGCCT  
 GATGGATATGAGCAGACGTACGCAGAGATGCCTAAGGCGGAGAAGAACGCTGTCTCCCATCGCTCCGGG  
 CCCTGCTGGAGCTGCAGGAGTACTTTGGCAGTTTGGCAGCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG215516 representing NM\_181493  
 Red=Cloning site Green=Tags(s)

MAASLVVQILGDKFPCTLVAQKIDLPEYQGEPEIISIQKQEA VRQVQGPV LVEDTCLCFNALGGLPGPY  
 IKWFLEK LKPEGLHQLLAGFEDKSAYALCTFALSTGDPSQPVRLFRGR TSGRIVAPRGCDQFGWDPFCQP  
 DGYEQTYAEMPKA EKNAVSHRFRALLELQEYFGSLAA

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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<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>	<u><a href="#">NM_181493.4</a></u>
<b>RefSeq Size:</b>	1155 bp
<b>RefSeq ORF:</b>	534 bp
<b>Locus ID:</b>	3704
<b>UniProt ID:</b>	<u><a href="#">Q9BY32</a></u>
<b>Cytogenetics:</b>	20p13
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Drug metabolism - other enzymes, Metabolic pathways, Purine metabolism, Pyrimidine metabolism
<b>Gene Summary:</b>	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]