

Product datasheet for RC204021

Inosine triphosphate pyrophosphatase (ITPA) (NM_033453) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Inosine triphosphate pyrophosphatase (ITPA) (NM_033453) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: Inosine triphosphate pyrophosphatase
Synonyms: C20orf37; DEE35; dj79416.3; HLC14-06-P; ITPase; My049; NTPase
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC204021 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGCGGCTCATTGGTGGGAAGAAGATCGTGTGTTGTAACGGGGAACGCCAAGAAGCTGGAGGAGGTCG
TTCAGATTCTAGGAGATAAGTTTCCATGCACTTTGGTGGCACAGAAAATTGACCTGCCGGAGTACCAGGG
GGAGCCGATGAGATTTCCATACAGAAATGTCAGGAGGCAGTTCGCCAGGTACAGGGGCCGTGCTGGTT
GAGGACACTTGTCTGTGCTTCAATGCCCTTGAGGGCTCCCCGGCCCTACATAAAGTGGTTTCTGGAGA
AGTTAAAGCCTGAAGTCTCCACCAGCTCCTGGCCGGTTCGAGGACAAGTCAGCCTATGCGCTCTGCAC
GTTTGCCTCAGCACCGGGACCCAAGCCAGCCGTGCGCCTGTTTCAGGGCCGGACCTCGGGCCGATC
GTGGCACCCAGAGGCTGCCAGGACTTTGGCTGGGACCCCTGCTTTCAGCCTGATGGATATGAGCAGACGT
ACGCAGAGATGCCTAAGGCGGAGAAGAAGCAGCTGTCTCCATCGCTTCCGGGCCCTGCTGGAGCTGCAGGA
GTACTTTGGCAGTTTGGCAGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC204021 protein sequence
 Red=Cloning site Green=Tags(s)

MAASLVGKKIVFVTGNAKKLEEVVQILGDKFPCTLVAQKIDLPEYQGEPEISIQKQAEAVRQVQGPVLV
EDTCLCFNALGGLPGPYIKWFLEKLPGLHQLLAGFEDKSAYALCTFALSTGDPSPVRLFRGRTSGRI
VAPRGCQDFGWDPCFQPDGYEQTYAEMPKAEKNAVSHRFRALLELQYFGLAA

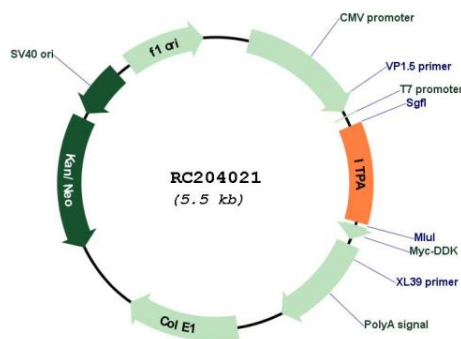
TRTRPLEQKLISEEDLAANDILDYKDDDDKV



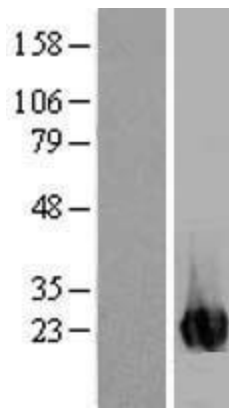
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UniProt ID:	<u>Q9BY32</u>
Cytogenetics:	20p13
Domains:	Ham1p_like
Protein Families:	Druggable Genome
Protein Pathways:	Drug metabolism - other enzymes, Metabolic pathways, Purine metabolism, Pyrimidine metabolism
MW:	21.4 kDa
Gene Summary:	This gene 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]

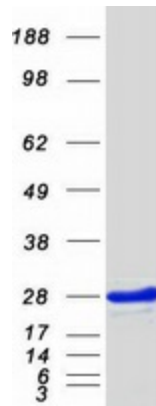
Product images:



Circular map for RC204021



Western blot validation of overexpression lysate (Cat# [LY409516]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204021 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ITPA protein (Cat# [TP304021]). The protein was produced from HEK293T cells transfected with ITPA cDNA clone (Cat# RC204021) using MegaTran 2.0 (Cat# [TT210002]).