

## Product datasheet for MR206150

### Upb1 (NM\_133995) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Upb1 (NM_133995) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Upb1
Synonyms:	A1195023
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206150 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGGACCGGAGTGGCAGTCCCTGGAGCAGTGCCTGGAAAAACATCTGCCGCTGACGATTTGGCCC  
AGGTGAAGCGAATTCTCTACGGCAAGCAGACTAGGAATCTCGATCTGCCAGAGAAGCTTTAAAAGCTGC  
CTCAGAAAGGAAGTCTTGAAGTGAAGGGATATGCCTTCGGGGCAGCCAAGGAGCAGCAGAGATGCCCCAG  
ATCGTGCCGCTGGGGCTCGTTCAGAACAGAATCCCGCTCCCACTTCTGCCCCCGTGGCAGAACAGGTCT  
CTGCGCTCCACAAGAGCATAGAGGAGATTGCTGAGGTGGCCGAATGTGTGGAGTCAATATCATCTGTTT  
CCAGGAAGCATGGAATATGCCGTTTCGTTTTGTACACGAGAGAACTTCCTTGGACAGAATTTGCTGAG  
TCGGCCGAGGATGGGCTCACCACAGGTTCTGTGAGAAGCTGGCAAAGAAGCACAACATGGTGGTGGTGT  
CTCCAATCTTGGAGCGTGATAGAGAGCATGGGGGAGTTCTGTGGAACACAGCTGTGGTGTCTCCAATTC  
AGGGCTGGTCAATGGGAAGACCAGAAAGAACACATCCCCAGAGTGGGAGACTTCAACGAGTCCACTTAC  
TACATGGAGGGAAACCTGGGCCACCCCGTGTCCAGACCCAGTTTGGCAGGATTGCAGTGAACATTTGCT  
ATGGGCGGCACCACCCCTCAACTGGCTCATGTACAGCATCAACGGAGCTGAAATCATCTTCAACCCCTTC  
GGCCACCATTGGAGAAGTCAAGTCAAGTCCCTGTGGCCGATCGAAGCCAGAAATGCAGCCATTGCCAATCAC  
TGCTTACCTGTGCTCTCAACCGTGTGGTTCAGGAACACTTCCCAATGAGTTTACTTCTGGAGATGGAA  
AGAAAGCTCACCATGACCTCGGCTACTTCTATGGTTCGAGCTATGTGGCAGCTCCCGATGGCAGCCGGAC  
CCCCGGCCTCTCCGTAATCAGGATGGGCTGCTGGTACGAGGACTCAACCTCAATCTCTGCCAGCAGATC  
AATGATTTCTGGACTTTCAAGATGACGGGACGACTTGAGATGTATGCCCGGAACTTGGCAAGCGGTCA  
AACCCAACCTACAGTCCCAACATTGTGAAGGAAGACCTGGTACTAGCCCTAGCTCGGGT

**ACGGT**ACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR206150 protein sequence  
 Red=Cloning site Green=Tags(s)

MAGPEWQSLEQCLEKHLPPDDLAQVKRILYGKQTRNLDLPREALKAASERNFELKGYAFGAAKEQQRCPO  
 IVRVGLVQNRIPPTSAPVAEQVSALHKSIEEIEVAAMCGVNIICFQEAWNMPFAFCTREKLPWTEFAE  
 SAEDGLTTRFCQKLAKKHNMVVVSPILERDREHGGVLWNTAVVISNSGLVMGKTRKNHPIRVGDFNESTY  
 YMEGNLGHVPVFQTQFGRIAVNICYGRHHPLNWL MYSINGAEIIFNPSATIGELSESLWPIEARNAAIANH  
 CFTCALNRVQGEHFPNEFTSGDGKKAHHDLYGYGSSSYVAAPDGSRTPLSRNQDGLLVTELNLLCQQI  
 NDFWTFKMTGRLEMYARELAEAVKPNYSPNIVKEDLV LAPSSG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_133995

**ORF Size:** 1182 bp

**OTI Disclaimer:** 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. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_133995.4](#), [NP\\_598756.1](#)

**RefSeq Size:** 3042 bp

**RefSeq ORF:** 1182 bp

**Locus ID:** 103149

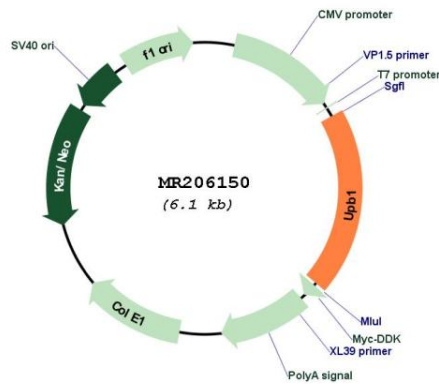
**UniProt ID:** [Q8VC97](#)

**Cytogenetics:** 10 C1

**MW:** 43.9 kDa

**Gene Summary:** This gene encodes an enzyme that catalyzes the conversion of N-carbamyl-beta-aminoisobutyric acid and N-carbamyl-beta-alanine to beta-aminoisobutyric acid or beta-alanine. Mutations in the related gene in human have been associated with beta-ureidopropionase deficiency. [provided by RefSeq, Dec 2013]

### Product images:



Circular map for MR206150