

Product datasheet for **RR203603**

Upb1 (NM_053845) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Upb1 (NM_053845) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Upb1
Synonyms:	Bup1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR203603 representing NM_053845 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGGACCTGAGTGGCAGTCCCTGGAGCAGTGCCTGGAAAAGCATCTGCCGCTGACGATTTGAGCC
AGGTGAAGCGAATTCTCTACGGCAAGCAAAGTGAATCTTGATCTGCCAGAAAAGCTTTAGAAGCTGC
CTCAGAAAAGAACTTCGAACTGAAGGGATACGCCCTTCGGGGCAGCCAAGGAACAGCAGAGATGTCCCCAG
ATCGTGC GCGTGGGGCTCGTT CAGAACAGAATCCCGCTCCCACTTCCGCCCTGTGGCAGAACAGGTCT
CTGCCCTCCACAAACGCATAGAGGAAATAGCTGAGGTGGCAGCAATGTGCGGAGTCAACATCATCTGTTT
CCAGGAAGCCTGGAATATGCCCTTCGTTTGTACACGAGAGAAAACCTCCTTGGACAGAATTTGCTGAG
TCAGCAGAGGACGGGCTCACCACCAGGTTCTGT CAGAAGCTGGCAAAGAAGCACAACATGGTGGTGATAT
CTCCAATCTTGGAGCGTGACAGAGATCACGGGGGAGTTCTATGGAACACAGCTGTGGTGATCTCCAACCTC
GGGACTGGTCATGGGAAAGACCAGAAAGAATCACATCCCAGAGTGGGCGACTTCAATGAGTCCACTTAC
TACATGGAGGGAAACCTCGGCCACCCCGTGTCCAGACCCAGTTTGGCAGGATTGCCGTGAACATCTGCT
ATGGGCGGCACCACCCCTCAACTGGCTCATGTACAGCGTCAACGGAGCTGAAATCATCTTCAACCCCTC
AGCCACCATTGGAGAAGCTCAGTGAATCCATGTGGCCGATCGAAGCCAGAAACGCAGCCATCGCTAATCAC
TGCTTACCTGTGCCCTCAACCGTGTGGGT CAGGAACACTACCCCAATGAGTTTACTTCTGGAGATGGAA
AGAAAGCTCACCATGACCTCGGCTACTTCTACGGTTCGAGCTACGTGGCAGCTCCTGACGGTAGCCGGAC
CCCCGGCCTCTACGCAATCAGGACGGGCTGCTGGTCACTGAGCTCAACCTCAACCTATGCCAGCAGATT
AATGATTTCTGGACTTTCAAGATGACGGGCCGACTTGAGATGTATGCCCGGGAGCTTGCCGAAGCTGTCA
AACCCAACTACAGTCCCAACATTGTGAAGGAAGACCTGGTTCTAGCCCTAGCTCGGGT

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR203603 representing NM_053845
Red=Cloning site Green=Tags(s)

MAGPEWQSLEQCLEKHLPPDDL^{SQVKRILY}GKQTRNLDLPRKALEAASERNFELKGYAFGAAKEQQRCPO
 IVRVGLVQNRIPPTSAPVAEQVSALHKRIEEIEA^{EAAMCGVNI}ICFQEAWNMPFAFCTREKLPWTEFAE
 SAEDGLTTRFCQKLAKKHNMVVISPI^{LERDRDHGGVL}WNTAVVISNSGLVMGKTRKNHPIRVGDFNESTY
 YMEGNLGHVPVFQTQFGR^{IAVNICYGRHHP}LNWLMYSVNGAEIIFNPSATIGELSESMWPIEARNAAIANH
 CFTCALNRVQGEHYPNEFTSGDGKKAHHD^{LGYFYGSSSYVA}APDGSRTPLSRNQDGLLVTELNLNLCQQI
 NDFWTFKMTGRLEMYARELAEAVKPNYSPN^{IVKEDLV}LAPSSG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

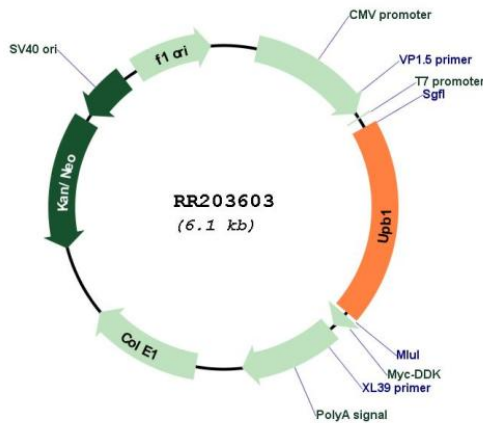
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_053845

ORF Size:	1179 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:	<ol style="list-style-type: none">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_053845.1 , NP_446297.1
RefSeq Size:	1420 bp
RefSeq ORF:	1182 bp
Locus ID:	116593
UniProt ID:	Q03248
Cytogenetics:	20p12
MW:	44 kDa
Gene Summary:	catalyzes the biosynthesis of beta-alanine; the third and final step in the catabolism of the pyrimidine bases uracil or thymine to produce beta-alanine or 2-methyl-beta-alanine [RGD, Feb 2006]