

Product datasheet for **RR212429**

Uck2 (NM_001102408) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Uck2 (NM_001102408) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Uck2
Synonyms: Umpk
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR212429 representing NM_001102408
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCCGGGGACAGCGAGCAGACCCTGCAGAACCACCAGCAGCCCAACGGCGGCGAGCCCTTCTGATCG
GCGTGAGCGGGGCACGGCCAGCGGGAAGTCTTCCGTGTGTGCTAAGATCGTCCAGCTTCTGGGGCAGAA
TGAGGTGGATTACCACCAGAAGCAGGTGGTCATCCTGAGCCAGGATAGCTTCTACCGAGTCTCACTTCA
GAGCAGAAAGGCCAAAGCCCTGAAGGGCCAATTCACACTTCGATCACCCGGATGCCTTTGACAACGAACTGA
TCTTCAAAACACTCAAAGAAATCACCGAAGGAAAAACAGTTCAGATCCCTGTGTATGACTTCGTCTCCCA
CTCACGGAAAGAGGAGACAGTCACCATCTACCCCGCAGATGTGGTGCTCTTTGAAGGGATCCTAGCCTTC
TATTCCCAGGAGGTCCGAGACCTGTTCCAGATGAAGCTTTTCGTGGACCCGATGCAGATACCCGTCTGT
CTCGCAGAGTTTTGAGGGACATCAGTGAAGAGGGAGGGACCTTGAGCAGATTTTATCTCAGTACATTAC
ATTCGTGAAACCTGCCTTCGAGGAGTTCTGCTTGCCAAAGTTGGAGCTTAGACCAGTCTTTTGGGAAGA
TCTTTTGGGAAGGGTGTGGCCATCAACCTCATCGTGCAGCATATACAGGACATCCTGAACGGCGGGCTCT
CCAAGCGGCAGACGAACGGCTATCTCAACGGCTATACCCCTTCCGCAAGAGGCAGGCGTCAGAGTCCAG
CAGCCGGCCACAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR212429 representing NM_001102408
Red=Cloning site Green=Tags(s)

MAGDSEQTLQNHQQPNGGEPFLIGVSGGTASGKSSVCAKIVQLLQNEVDYHQKQVVILSQDSFYRVLTS
 EQKAKALKQGQFNFDHPDAFDNELIFKTLKEITEGKTQVIPVYDFVSHSRKEETVTIYPADVLFEGILAF
 YSQEVRDLFQMKLFVDTADTRLSRRVLRDISERGRDLEQILSQYITFVKPAFEEFCLPKLELRPVLLGR
 SFGKGVAINLIVQHIQDILNGLSKRQTNGYLNQYTPSRKRQASESSSRPH

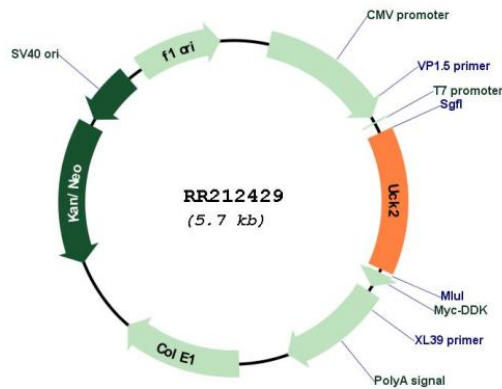
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001102408
ORF Size: 783 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_001102408.1 , NP_001095878.1
RefSeq Size:	1575 bp
RefSeq ORF:	786 bp
Locus ID:	304944
Cytogenetics:	13q24
MW:	29.4 kDa
Gene Summary:	rate-limiting enzyme of the salvage pathway in pyrimidine synthesis; converts uridine into uridine-59-mono-phosphate in the presence of ATP; may play a role in nerve regeneration and maturation [RGD, Feb 2006]