

## Product datasheet for **RG200734**

### KPC2 (UBAC1) (NM\_016172) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KPC2 (UBAC1) (NM_016172) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KPC2
Synonyms:	GBDR1; KPC2; UBADC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200734 representing NM_016172 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTCTGTCAGGAGGAGAAGATCTTCGCGGGCAAGGTGCTGCGGCTGCACATCTGCGCGTCCGACGGCG  
CCGAGTGGCTGGAGGAGGCCACCGAGGACACCTCGGTGGAGAAGCTCAAGGAGCGCTGCCTCAAGCACTG  
TGCTCATGGGAGCTTAGAAGATCCAAAAGTATAACCCATCATAAATTAATCCACGCTGCCTCAGAGAGG  
GTGCTGAGTGATGCCAGGACCATCTGGAAGAGAACATCCAGGACCAAGATGTCTATTATTGATAAAAA  
AGCGTGTCCATCACCCTTCCAAGATGGCTGATGTCTCAGCAGAAGAAAAGAAAAACAAGACCAGAA  
AGCTCCAGATAAAGAGGCCATACTGCGGGCCACCGCAACCTGCCCTCCTACAACATGGACCGGGCCGCG  
GTCCAGACCAACATGAGAGACTTCCAGACAGAACTCCGGAAGATACTGGTGTCTCTCATCGAGGTGGCGC  
AGAAGCTGTTAGCGCTGAACCCAGATGCGGTGGAATTGTTAAGAAGGCGAATGCAATGCTGGACGAGGA  
CGAGGATGAGCGTGTGGACGAGGCTGCCCTGCGGCAGCTCACGGAGATGGGCTTCCGGAGAACAGAGCC  
ACCAAGGCCCTTCAGCTGAACACATGTCGGTGCCTCAGGCCATGGAGTGGCTAATTGAACACGCAGAAG  
ACCCGACCATAGACACGCTCTTCTGGCCAAGCTCCCCAGAGGCCGAGGGGGCCACAGCAGCTGCCTC  
CGAGGCTGCCCGGGAGCCAGCGCCACCGATGAGGAGGCCAGAGATGAGCTGACGGAAATCTTCAAGAAG  
ATCCGGAGGAAAAGGGAGTTTCGGGCTGATGCTCGGGCCGTCATTTCCCTGATGGAGATGGGTTTCGACG  
AGAAAGAGGTGATAGATGCCCTCAGAGTGAACAACAACACAGAGAATGCCGCTGCGAGTGGCTGCTGGG  
GGACCGGAAGCCCTCTCCGGAGGAGCTGGACAAGGGCATCGACCCGACAGTCTCTCTTTCAGGCCATC  
CTGGATAACCCGGTGGTGCAGCTGGGCCTGACCAACCCGAAAACATTGCTAGCATTTGAAGACATGCTGG  
AGAACCCACTGAACAGCACCCAGTGGATGAATGATCCAGAAACGGGGCTGTCATGCTGCAGATCTCTAG  
AATCTTCCAGACACTAAATCGCACG

**ACGCGT**ACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG200734 representing NM\_016172  
 Red=Cloning site Green=Tags(s)

MFVQEEKIFAGKVLRLHICASDGAEWLEEATEDTSVEKLERCLKHCAHGSLEDPKSITHHKLIIHAASER  
 VLSDARTILEENIQDQDVLILLIKKRAPSPLPKMADVSAEKKKQDQKAPDKEAILRATANLPSYNDRAA  
 VQTNMRDFQTELKILVSLIEVAQKLLALNPDAVELFKKANAMLDEDEDERVDEAALRQLTEMGFPENRA  
 TKALQLNHMSVPQAMEWLEIEHAEDPTIDTPLPGQAPPEAEGATAAASEAAAGASATDEEARDELTEIFKK  
 IRRKREFRADARAVISLMEGDFDEKEVIDALRVNNNQNAACEWLLGDRKPSPEELDKGIDPDSPLFQAI  
 LDNPVVQLGLTNPKTLLAFEDMLENPLNSTQWMNDPETGPVMLQISRIFQTLNRT

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_016172

**ORF Size:** 1215 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\\_016172.2](#), [NP\\_057256.2](#)

**RefSeq Size:** 1877 bp

**RefSeq ORF:** 1218 bp

**Locus ID:** 10422

**UniProt ID:** [Q9BSL1](#)

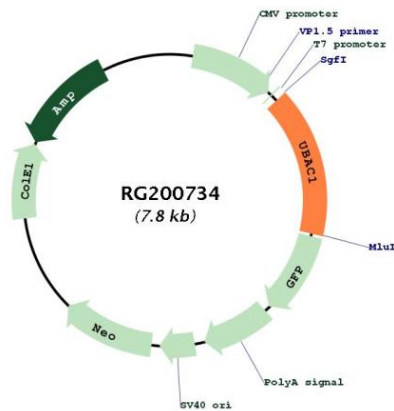
**Cytogenetics:** 9q34.3

**Domains:** UBA, ST11

**Protein Families:** Druggable Genome

**Gene Summary:** Non-catalytic subunit of the KPC complex that acts as E3 ubiquitin-protein ligase. Required for poly-ubiquitination and proteasome-mediated degradation of CDKN1B during G1 phase of the cell cycle.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RG200734