

Product datasheet for **RC223168**

Uroplakin II (UPK2) (NM_006760) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Uroplakin II (UPK2) (NM_006760) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Uroplakin II
Synonyms:	UP2; UPII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC223168 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCACCCCTGCTGCCATCCGGACCTTGCCCTTGATCCTGATTCTGCTGGCTCTGCTGTCCCCAGGGG
CTGCAGACTTCAACATCTCAAGCCTCTCTGGTCTGCTGTCCCCGGCACTAACGGAGAGCCTGCTGGTTGC
CTTGCCCCCTGTACCTCACAGGAGGCAATGCCACACTGATGGTCCGGAGAGCCAATGACAGCAAAGTG
GTGACGTCAGCTTTGTGGTGCCTCCGTGCCGTGGCGCAGGGAAGTGGTGGTGGTGGACAGTGGT
CTGGCTTACAGTCACTCGGCTCAGTGCATACCAGGTGACAAACCTCGTGCCAGGAACCAATTCTACAT
TTCTACCTAGTGAAGAAGGGGACAGCCACTGAGTCCAGCAGAGAGATCCAATGTCCACACTCCCTCGA
AGGAACATGGAATCCATTGGGCTGGGTATGCCCCGCACAGGGGGCATGGTGGTCATCACGGTGTCTCT
CTGTGCCATGTTCTGCTGGTCTGGGCTTCATCATTGCCCTGGCACTGGGCTCCCGCAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC223168 protein sequence Red=Cloning site Green=Tags(s)
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MAPLLPRTLPLILILLALLSPGAADFNISSLGLLSPALTESLLVALPPCHLTGGNATLMVRRANDSKV
VTSSFVPPCRGRRELVSVVDSGAGFTVTRL SAYQVTNLVPGTKFYISYLVKKGATESSREIPMSTLPR
RNMESIGLGMARTGGMVITVLLSVAMFLLVLGFIIALALGSRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:	https://cdn.origene.com/chromatograms/mk6457_h01.zip
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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006760

ORF Size: 552 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_006760.4](#)

RefSeq Size: 947 bp

RefSeq ORF: 555 bp

Locus ID: 7379

UniProt ID: [O00526](#)

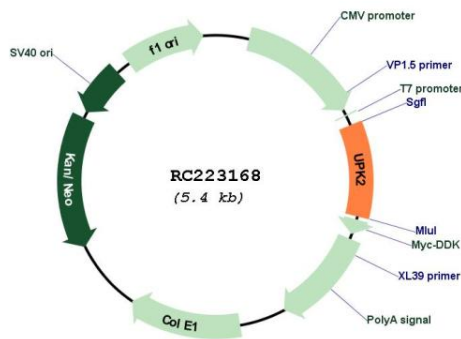
Cytogenetics: 11q23.3

Protein Families: Transmembrane

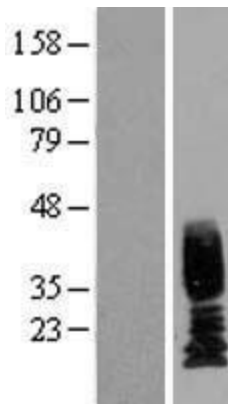
MW: 19.4 kDa

Gene Summary: This gene encodes one of the proteins of the highly conserved urothelium-specific integral membrane proteins of the asymmetric unit membrane which forms urothelium apical plaques in mammals. The asymmetric unit membrane is believed to strengthen the urothelium by preventing cell rupture during bladder distention. The encoded protein is expressed in the peripheral blood of bladder cancer patients with transitional cell carcinomas. [provided by RefSeq, Sep 2009]

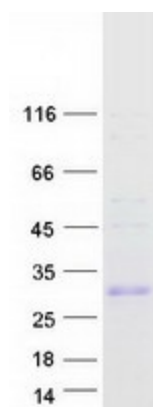
Product images:



Circular map for RC223168



Western blot validation of overexpression lysate (Cat# [LY416439]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223168 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified UPK2 protein (Cat# [TP323168]). The protein was produced from HEK293T cells transfected with UPK2 cDNA clone (Cat# RC223168) using MegaTran 2.0 (Cat# [TT210002]).