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Product datasheet for RC229619

Uroplakin III (UPK3A) (NM_001167574) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Uroplakin III
Synonyms:	UP3A; UPIII; UPIIIA; UPK3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC229619 representing NM_001167574
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCTCCGCTCTGGGCCCTGCTGGCCCTCGGCTGCCTGCGGTTCGGCTCGGCTGTGAACCTGCAGCCCC
AACTGGCCAGTGTGACTTTCGCCACCAACAACCCCACACTTACCACTGTGGCCTTGGAAAAGCCTCTCTG
CATGTTTGACAGCAAAGAGGCCCTCACTGGCACCCACGAGGTCTACCTGTATGTCCTGGTCGACTCAGTC
ACCCCATACTCGACGATCGACACGTGGCCAGGCCGGCGGAGCGGAGGCATGATCGTCATCACTTCCATCC
TGGGCTCCCTGCCCTTCTTTCTACTTGTGGGTTTTGCTGGCGCCATTGCCCTCAGCCTCGTGGACATGGG
GAGTTCTGATGGGGAAACGACTCACGACTCCCAAATCACTCAGGAGGCTGTTCCCAAGTCGCTGGGGGCC
TCGGAGTCTTCCTACACGTCCGTGAACCGGGGGCCGCCACTGGACAGGGCTGAGGTGTATTCCAGCAAGC
TCCAAGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC229619 representing NM_001167574
Red=Cloning site Green=Tags(s)

MPPLWALLALGCLRFGSAVNLQPQLASVTFATNNPTLTTVALEKPLCMFDSKEALTGTHEVYLYVLVDSV
TPYSTIDTWPGRRSGGMIVITSILGSLPFFLLVGFAGAIALSLVDMGSSDGETTHDSQITQEAVPKSLGA
SESSYTSVNRGPPLDRAEVYSSKLQD

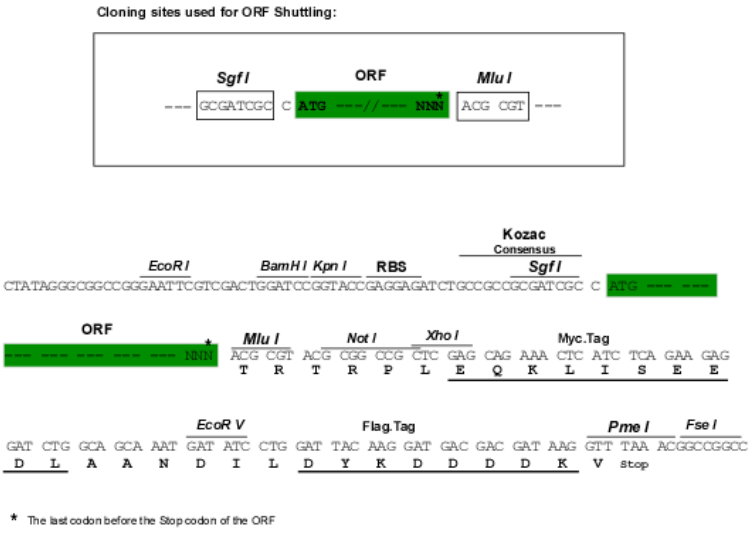
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1465_a03.zip

View online »

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001167574

ORF Size: 498 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_001167574.2

RefSeq ORF: 501 bp

Locus ID: 7380

UniProt ID: O75631

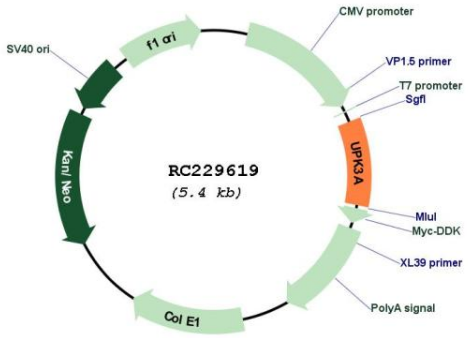
Cytogenetics: 22q13.31

Protein Families: Transmembrane

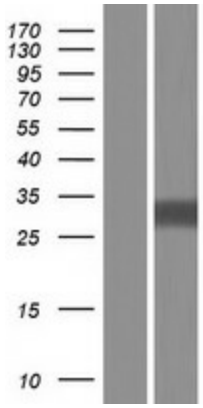
MW: 18.1 kDa

Gene Summary: This gene encodes a member of the uroplakin family, a group of transmembrane proteins that form complexes on the apical surface of the bladder epithelium. Mutations in this gene may be associated with renal adysplasia. Alternatively spliced transcript variants have been described.[provided by RefSeq, Nov 2009]

Product images:



Circular map for RC229619



Western blot validation of overexpression lysate (Cat# [LY432619]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC229619 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).