

Product datasheet for **MG224179**

Upk1a (NM_026815) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Upk1a (NM_026815) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Upk1a
Synonyms:	1110031P12Rik; AU019298; C87192; Tspan21; Upk1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224179 representing NM_026815 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTCTGCAGCGACAGAGGGAGAGAAGGGTCTCCTGTGGTGGTGGGCTGCTGGTCGTGGCAACA
TCATTATTTTGTGTGAGGCCTGGCCCTGTTGCGGAGACAGTGTGGTAACAGCTGACCAGTACCGCGT
GTACCCACTGATGGGCGTCTCAGGCAAGGATGATGTCTTCGCTGGCGCCTGGATTGCCATCTTCTGCGGC
TTCTCCTTCTTCGTCGTGGCCAGCTTTGGTGTAGGAGCTGCGCTCTGTCGTCGTCGGTACATGATCCTCA
CGTACCTGCTGCTGATGCTCATCGTCTACATCTTCGAGTGTGCCTCCTGCATCACATCCTACACCCACCG
CGACTATATGGTGTCCAACCCATCCCTGATAACCAAGCAAATGTTGACCTACTACAGTGCAGACACTGAC
CAGGGCCAGGAGCTAACCCGACTCTGGGACCGGATCATGATTGAGCAAGAGTGTTGTGGCACATCTGGCC
CCATGGACTGGGTGAATTACACATCAGCCTTCCGGGCAGCCACCCGGAAGTGGTGTTCCTGGCCCCC
ACTGTGCTGTGTCGGACAGGCAACTTCATCCCCATCAATGAAGATGGCTGCCGAGTAGGCCACATGGAC
TACCTGTTTACCAAGGGTTGCTTCGAGCACATCGCCATGCCATTGATAGCTACACGTGGGGCATATCGT
GGTTTGGCTTTGCCATCTTGATGTGGACCCTCCCTGTGATGTTGATAGCCATGTATTCTACACCACTCT
C

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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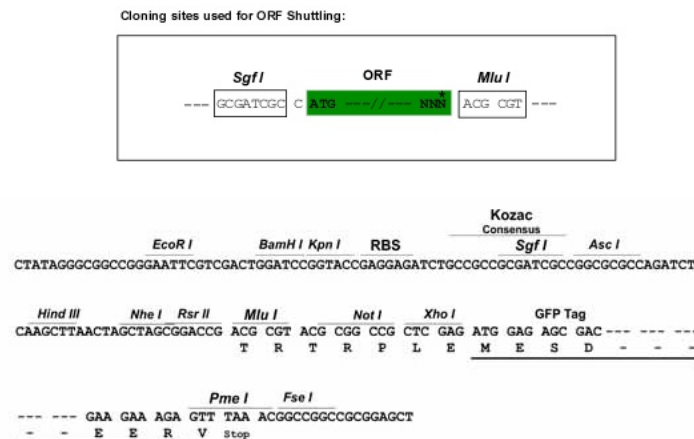
Protein Sequence: >MG224179 representing NM_026815
 Red=Cloning site Green=Tags(s)

MASAATEGEGKSPVVVGLLVVGNIIILL SGLALFAETVWVTADQYRVYPLMGVSGKDDVFAGAWIAIFCG
 FSFFVVASFGVGAALCRRRYMILTYLLMLIVYIFECASCITSYTHRDYMSNP SLITKQMLTYYSADTD
 QGQELTRLWDRIMIEQECCGTSGPMDWVNYTSAFRAATPEVVPWPPLCCRRRTGNFIPINEDGCRVGHMD
 YLFTKGCFEHIGHAIDSYTWGISWFGFAILMWTLPVMLIAMFYFTTL

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_026815

ORF Size: 771 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_026815.2](#), [NP_081091.1](#)

RefSeq Size: 1308 bp

RefSeq ORF: 774 bp

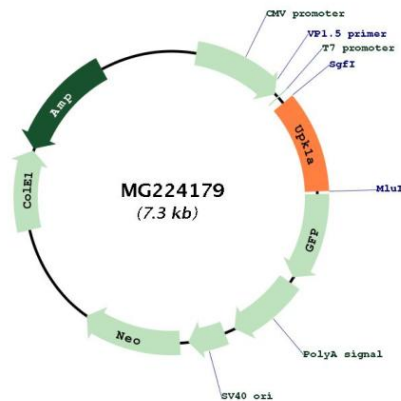
Locus ID: 109637

UniProt ID: [Q9D132](#)

Cytogenetics: 7 18.78 cM

Gene Summary: Component of the asymmetric unit membrane (AUM); a highly specialized biomembrane elaborated by terminally differentiated urothelial cells. May play an important role in normal bladder epithelial physiology, possibly in regulating membrane permeability of superficial umbrella cells or in stabilizing the apical membrane through AUM/cytoskeletal interactions (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG224179