

Product datasheet for **MG203374**

Upk1b (NM_178924) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Upk1b (NM_178924) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Upk1b
Synonyms:	Al413235; Tspan20; UPIb; Upk1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203374 representing NM_178924 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGCCAAAGACGATTCCACTGTTGCTTCCAGGGCCTGTTGATTTTGGACACGTAATTGTTGGTA
 TGTGTGGCATCGCCCTGACAGCAGAGTGTATCTTCTTTGTATCTGACCAACACAGTCTTTACCCACTTCT
 CGAAGCCACCAACAATGATGATATCTTCGGGCGAGCTTGGATAGGCATGTTCTGTTGGCATCTGCCTCTTC
 TGCTTGTCGGTTCTAGCCATAGTAGGAATTATGAAGTCCAACAGGAAAATCCTCTTGGCGTACTTTCATCA
 TGATGTTTATAGTGACGGTTTTGAAGTGGCATCTTGATCAGCAGCAACACAACGCGACTTTTTTAC
 AACCAACCTCTTCTGAAGCAGATGCTGATGAGGTATCAAAACAACAGTCCCCCAACCAATGACGACGAA
 TGAAGAACAACGGGGTCACCAAGACCTGGGATAGGCTCATGCTGCAGGACCACTGCTGTGGTGTAAACG
 GTCCGTCAGACTGGCAGAAATACACCTCTGCCTTCCGGGTGGAGAATAACGATGCTGACTACCCCTGGCC
 TCGGCAGTGCTGCGTCATGGACAAGCTTAAAGAGCCTCTCAACCTGGACGCTTGCAAACCTGGAGTGCC
 GGTTATTACCACAGTCAGGGCTGCTATGAACTGATCTCTGGACCAATGGACCGCATGCCTGGGGAGTTG
 CCTGGTTTGGATTTGCCATCCTCTGCTGGACTTTTGGGTTCTCCTGGGCACCATGTTCTACTGGAGCAG
 AATTGAATAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >MG203374 representing NM_178924
 Red=Cloning site Green=Tags(s)

MAKDDSTVRCFQGLLIFGHVIVGMCGIALTAECIFFVSDQHSLYPLLEATNDDIFGAAWIGMFVGICLF
 CLSVLAIVGIMKSNRKILLAYFIMMFIVYGFVASCITAATQRDFFTTNLFLKQMLMRYQNNSPPTNDDE
 WKNNGVTKTWDRMLQDHCCGVNGPSDWQKYTSAFRVENNDADYPWPRQCCVMDKLKEPLNLDACKLGV
 GYHSQGCYELISGPMDRHAWGVAVFGFAILCWTFWLLGTMFYWSRIEY

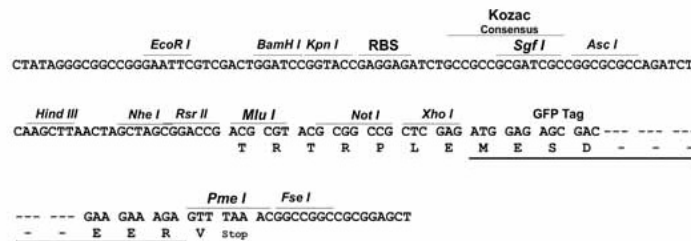
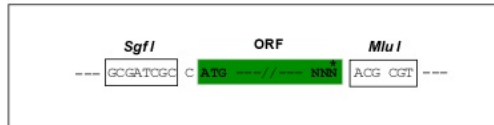
TRTRPLE – GFP Tag – V

Chromatograms: https://cdn.origene.com/chromatograms/ja2277_a11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_178924

ORF Size: 780 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_178924.4](#), [NP_849255.2](#)

RefSeq Size: 1769 bp

RefSeq ORF: 783 bp

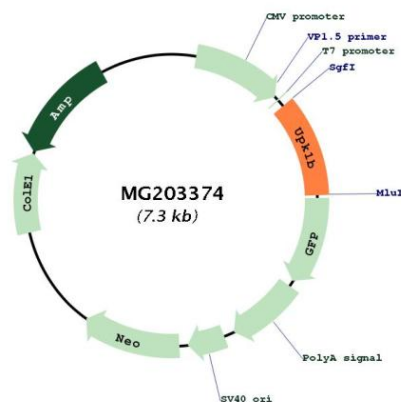
Locus ID: 22268

UniProt ID: [Q9Z2C6](#)

Cytogenetics: 16 B4

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 MG203374