

Product datasheet for MR213256

Abcb5 (NM_029961) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Abcb5 (NM_029961) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Abcb5
Synonyms:	9230106F14Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR213256 representing NM_029961 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAAATCTGAAAGAACCAACGGTTGCAAGAACTAATCAGAGATATGGACCTCTGCAAGAACAAG
TGCCTAAAGTGGAAATCAAGCTGTTGGACCTATTGAGATATCCGCTTTGCTGATAATCTGGACATTGT
CCTCATGACTCTGGGAATATTAGCATCCATGATAAATGGAGCCACCGTTCCTTTAATGTCCTGGTTTTA
GGAGAAAATAAGTGATCATTTAATTAATGGATGCCTAGTACAACTAACAGAACTAAATATCAGAAGTGT
CTCAGACTCAAGAAAAGCTGAATGAAGATATCATTGTGTTGACTATATTATATTGGAATAGGAGCAGC
TGCCCTCATTTTTGGCTATGTACAGATTTCTTCTGGGTCACTGCAGCCCGCAAACCAAGAATC
CGAAAACAGTTTTTTTCATTCAATTTGGCACAAGACATCAGCTGGTTTGATGGCAGTGACATCTGTGAAC
TTAACACCCGCATGACTGGTGACATCAACAACTCTGTGATGGTATTGGAGATAAGATCCCTCTGATGTT
TCAGAACATATCTGGGTTTTCTATTGGCCTGGTGATAAGTTTGATAAAAAGCTGGAACTCTCCCTGGTG
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GGTAAAAGGAAATGGAACAGGCAGCGAGGGAGGCAAACGCCTACGACTTCATAATGGCCTTTCCTAAGA
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TCATCAGGAGCTCCTGAGAAATGGAGATACATACTTTAAATAGTAGCTGCACAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA

Protein Sequence: >MR213256 representing NM_029961
 Red=Cloning site Green=Tags(s)

MANSERTNGLQETNQRYPGLQEQVPKVGNAVGPPIEIFRFADNLDIVLMTLGILASMINGATVPLMSLVL
 GEISDHLINGCLVQTNRTKYQNCSTQEQKLNEDIIVLTLYYIGIGAAALIFGYVQISFWVITAARQTTRI
 RKQFFHSILAQDISWFDGSDICELNTRMTGDINKLCDGIGDKIPLMFQNI SGFSIGLVISLIKSWKLSLV
 VLSTSP LIMASSALCSRMIIISLTSKELDAYSKAGAVAEALSSIQTVTAFGAQEKEIQRYTQHLKDAKDA
 GIKRATASKLSLGAVYFFMNGAYGLAFWYGTSLIFGGEPGYTIGTILAVFFSVIHSSYICIGSVAPHLET
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 ALNGSVHPVFSIIFGKLVTFEDKNKATLKQDAELYSMMLVVLGIVALVTYLMOGLFYGRAEENLAMRLR
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 LILSFAPVLAVTGMIQTAAAGFANRDKQALKRAGKIATEAVENIRTVVSLTRERAFEQMYEETLQTQHR
 NALKRAHITGCCYAVSHAFVHFAHAAGFRFGAYLIQAGRMPPEGMFIVFTAIAYGAMAIGETLVWAPEYS
 KAKAGASHL FALLKKNPTINSCSQSGEKPDTCENLEFREVSFVYPCRPEVPVLQNMSLSIEKGTVAFV
 GSSGCGKSTCVQLLQRFYDPMKQVLLDGDVVKELNVQWLR SQT AIVSQEPVLFNCISAIENIAYGDN SRM
 VPLEEIKEVADAANIHSFIEGLPRKYNTLVGLRGVQLSGGQKQRLAIARALLRKP KILLLDEATSALDNE
 SEKVVQALDKARRGKTCLVVAHRLSTIQNADMI VVLQNGSIKEQGTHQELLRNGD TYFKLVAAH

TRTRPLEQKLISEEDLAANDILDYKDDDDK

Chromatograms: https://cdn.origene.com/chromatograms/mm9096_h03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

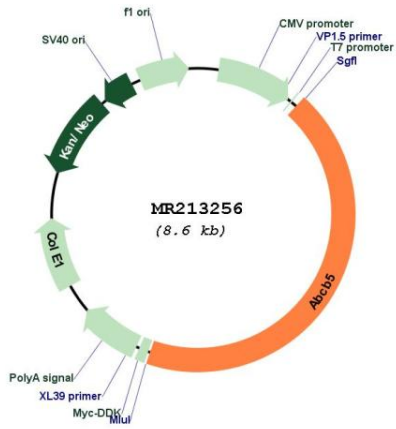


ACCN: NM_029961

ORF Size: 3765 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:	<ol style="list-style-type: none">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_029961.2 , NP_084237.1
RefSeq Size:	3876 bp
RefSeq ORF:	3768 bp
Locus ID:	77706
UniProt ID:	B5X0E4
Cytogenetics:	12 F2
MW:	137.4 kDa
Gene Summary:	Drug efflux transporter present in a number of stem cells that acts as a regulator of cellular differentiation. Able to mediate efflux from cells of the rhodamine dye and of the therapeutic drug doxorubicin. Specifically present in limbal stem cells, where it plays a key role in corneal development and repair.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR213256