

## Product datasheet for **MG213256**

### Abcb5 (NM\_029961) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Abcb5 (NM_029961) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Abcb5
Synonyms:	9230106F14Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG213256 representing NM_029961 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAAATCTGAAAGAACCAACGGTTGCAAGAACTAATCAGAGATATGGACCTCTGCAAGAACAAG  
TGCCTAAAGTGGGAAATCAAGCTGTTGGACCTATTGAGATATCCGCTTTGCTGATAATCTGGACATTGT  
CCTCATGACTCTGGGAATATTAGCATCCATGATAAATGGAGCCACCGTTCCTTTAATGTCCTGGTTTTA  
GGAGAAAATAAGTGATCATTTAATTAATGGATGCCTAGTACAACTAACAGAACTAAATATCAGAAGTGT  
CTCAGACTCAAGAAAAGCTGAATGAAGATATCATTGTGTTGACTATATTATATTGGAATAGGAGCAGC  
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CGAAAACAGTTTTTTTCATTCAATTTGGCACAAGACATCAGCTGGTTTGATGGCAGTGACATCTGTGAAC  
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TCAGAACATATCTGGGTTTTCTATTGGCCTGGTGATAAGTTTGATAAAAAGCTGGAACTCTCCCTGGTG  
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TGCTGTTTTCTCAGTGTGATCCATAGTACTGACTGATTGGATCTGTAGCCCTCACCTGGAAACCTTC  
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CAACAGCTGGATTTGTACCTGAATGTATAGAAGGAAACATAGAATTTAAAAATGTTTCTTCAGCTATCC  
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GCTGTATCACCGTAGATGAGAATGACATCCGAGCCAAAACGTGCGACATTACCGAGAGCAAATGGAGT  
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GGTGAAAAGGAAATGGAACAGGCAGCGAGGGAGGCAAACGCCTACGACTTCATAATGGCCTTTCCTAAGA  
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GACTCTCTACAATACAGAATGCAGATATGATCGTTGTTCTGCAAAATGGAAGCATCAAGGAGCAGGGAAC  
TCATCAGGAGCTCCTGAGAAATGGAGATACATACTTTAAATTAGTAGCTGCACAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG213256 representing NM\_029961  
 Red=Cloning site Green=Tags(s)

MANSERTNGLQETNQRYPGLQEVPKVGNAVGPPIEIFRFADNLDIVLMTLGILASMINGATVPLMSLV  
 GEISDHLINGCLVQTNRTKYQNCSTQEQKLNEDIIVLTLYYIGIGAAALIFGYVQISFWVITAARQTTRI  
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 VLSTSP LIMASSALCSRMIISLTSKELDAYSKAGAVAEALSSIQVTAFGAQEKEIQRYTQHLKDAKDA  
 GIKRATASKLSLGAVYFFMNGAYGLAFWYGTSLIFGGEPGYTIGTILAVFFSVIHSSYICGSVAPHLETF  
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 VGPSSGSKSTTVQLLQRLYDPEDGCITVDENDIRAQNVRYHQI GVVVRQEPVLF GTTIGNNIKFGREGV  
 GEKEMEQAAAREANAYDFIMAFPKKFNTLVGEKGAQMSGGQKQRIAIARALVRNPKILILDEATSALDTES  
 ESLVQTAL EKASKGRTTIVVAHRLSTIRGADLIVTMKDG MVVEKGTAE LMAKQGLYYSLAMAQDIKQVD  
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 ALNGSVHPVFSIIFGKLVTFEDKNKATLKQDAELYSMMLVVLGIVALV TYLMOGLFYGRAEENLAMRLR  
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 LILSFAPVLAVTGMIQTAA MAGFANRDKQALKRAGKIATEAVENIRTVVSLTRERAF EQMYEETLQTQHR  
 NALKRAHITGCCYAVSHAFVHFAHAAGFRFGAYLIQAGRMPEGMFIVFTA IAYGAMAIGETLVWAPEYS  
 KAKAGASHL FALLKNKPTINSCSQSGEKPDTCENLEFREVSVFYPCRPEVPVLQNM SLSIEKGKTVAFV  
 GSSGCGKSTCVQLLQRFYDPMKQVLLDGDVVKELNVQWLR SQT AIVSQEPVLFNC SIAENIAYGDNSRM  
 VPLEEIKEVADAANIHSFIEGLPRKYNTLVGLRGVQLSGGQKQRLAIARALLRKP KILLLDEATSALDNE  
 SEKVVQALDKARRGKTCLVVAHRLSTIQNADMI VVLQNGSIKEQGTHQELLRNGD TYFKLVAAH

TRTRPLE - GFP Tag - V

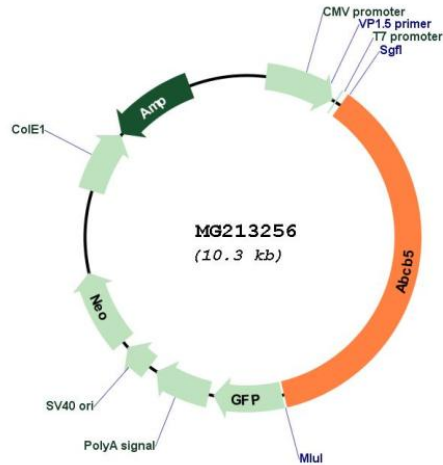
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



## Plasmid Map:



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:**

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

**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]