

## Product datasheet for **RG211938**

### MRP6 (ABCC6) (NM\_001171) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MRP6 (ABCC6) (NM_001171) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MRP6
Synonyms:	ABC34; ARA; EST349056; GACI2; MLP1; MOAT-E; MOATE; MRP6; PXE; PXE1; URG7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211938 representing NM_001171 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCGCGCCTGCTGAGCCCTGCGCGGGCAGGGGTCTGGAACCAGACAGAGCCTGAACCTGCCGCCA  
CCAGCCTGCTGAGCCTGTGCTTCTGAGAACAGCAGGGGTCTGGTACCCCCATGTACCTCTGGTCTCT  
TGGTCCCATCTACCTCCTTTCATCCACCACCATGGCCGGGGCTACCTGTGGATGTCCCACTCTTCAA  
GCCAAGATGGTGTGGATTGCGCCCTCATAGTCTGTGTACCTCCAGCGTGGCTGTGCTCTTTGAAAA  
TCCAACAGGGAACGCCTGAGGCCCCAGAATTCCTATTATCCTACTGTGTGGCTCACCAGATGAGCTT  
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CTTCTCTGCTTTGTCTTGCCAGCTACCAACGCTGCCAGCAGGCCCTCCGAGCGGGCTTCCAGAGCGACC  
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ACCAGCTCTATCCTCAGGAACCTCGAAGACCATCAAGTTCCATGGCTGGGAGGGAGCCTTTCTGGACAGAG  
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 GGAAGAAGTTGACCCTGGTGTGCTAGACTCAAGTTCTCTGGAAGCGCTGCCGGGAAGGATTGCATCACC  
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 GACCTGAGCGTGGCCAGAAACAGCTCCTGTGTCTGGCAGTGGCCTTCTCCGGAAGACCCAGATCCTCA  
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 GTTGCACAGTGCAGTGTGCTGCTCATTGCCACCGCCTGCGCTCCGTGATGGACTGTGCCCGGTTCTG  
 GTCATGGACAAGGGGAGGTGGCAGAGAGCGGCAGCCCGCCAGCTGCTGGCCAGAAGGGCTGTTTT  
 ACAGACTGGCCAGGAGTCAAGCCTGGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG211938 representing NM\_001171  
 Red=Cloning site Green=Tags(s)

MAAPAEP CAGQGVWNQTEPEPAATSLLSL CFLRTAGVWVPPMYLWV LGPIYLLFIHHHGRGYLWMSPLFK  
 AKMVLGFALIVLCTSSVAVALWKIQQGTPEAPEFLIHTPVWLT TMSFAVFLIHTERKKGVQSSGVLFGYV  
 LLCFVLPATNAAQQASGAGFQSDPVRHLSTYLCLSLVVAQFVLSCLADQPPFFPEDPQQSNPCPETGAAF  
 PSKATFWWWVSGLVWRGYRRPLRPKDLWSLGRENSSEELVSRLEKEWMRNRSAARRHNKAI AFKRKGGSGM  
 KAPETEPFLRQEGSQWRPLLKAIWQVFHSTFLLGTL SLIISDVFRFTVPKLLSLFLEFIGDPKPPAWKGY  
 LLAVLMFLSACLQTLFEQQNMYRLKVLQMRLRSAITGLVYRKVLALSSGSRKASAVGDVVNLVSVDVQRL  
 TESVLYLNGLWLPVWIVVCFVYLWQLLGPSALTAIAVFLSLLPLNFFISKKRHHQEEQMRQKDSRARL  
 TSSILRNSTIKFHGWEGAFLDRLV GIRGQELGALRTSGLLFSVSLVSFQVSTFLVALVVFVHTLVAEN  
 AMNAEKAFVTLTVLNILNKAQAFLPFSIHSLVQARVSFDRLVTFCLCEEVDPGVVDSSSSSGSAAGKDCIT  
 IHSATFAWSQESPCLHRINLTPQGCLLAVVGPV GAGKSSLLSALLGELSKVEGFVSI EGAVAVYPQEA  
 WVQNTSVVENVCFGQELDPPWLERVLEACALQPDVDSFPEGIHTS IGEQGMNLSSGGQKQRLSLARAVYRK  
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 DDPDRAGWPAGKDSIQYGRVKATVHLAYLRAVGTPLCLYALFLFLCQQVASF CRGYWLSLWADDPVGGQ  
 QTQAALRGGIFGLLGLQAIGLFASMAAVLLGGARASRLLFQRLLDWVVRSPISFFERTPIGHLLNRF SK  
 ETDTVDDIPDKLRSLMYAFGLLEVSLLVAVATPLATVAIPLFLLYAGFQSLYVVSQCQLRRLESASY  
 SSVCSHMAETFQGSTVVRAFRTQAPFVAQNARVDESQRISFPRLVADRWLAANVELLGNGLVFAAATCA  
 VLSKAHL SAGLVGFSVSAALQVTQTLQWVVRNWDLENSIVSVERMODYAWTPKEAPWRLPTCAAQPPWP  
 QGGQIEFRDFGLRYRPELPLAVQGV SFKIHAGEKVGIVGRTGAGKSSLASGLLRLQEAEEGWIWIDGVPI  
 AHVGLHTLRSRISII PQDPILFPGSLRMNLDLLQEHSDEAIWAALETVQLKALVASLPGQLQYKCADRGE  
 DLSVGGKQLLCLARALLRKTQILILDEATAAVDPGT ELQMQAMLGSWFAQCTVLLIAHRLRSVMDCARVL  
 VMDKGVVAESGSPAQLLAQKGLFYRLAQESGLV

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**ACCN:** NM\_001171

**ORF Size:** 4509 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_001171.2](#), [NP\\_001162.2](#)

**RefSeq Size:** 4535 bp

**RefSeq ORF:** 4512 bp

**Locus ID:** 368

**UniProt ID:** [O95255](#)

**Cytogenetics:** 16p13.11

**Domains:** ABC\_membrane, ABC\_tran, AAA

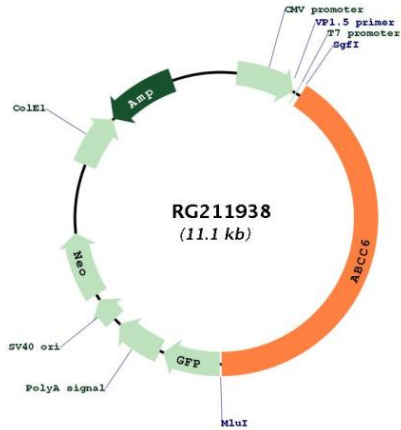
**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** ABC transporters

**Gene Summary:**

The protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). The encoded protein, a member of the MRP subfamily, is involved in multi-drug resistance. Mutations in this gene cause pseudoxanthoma elasticum. Alternatively spliced transcript variants that encode different proteins have been described for this gene. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG211938