

## Product datasheet for **RG221522**

### MRP3 (ABCC3) (NM\_003786) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | MRP3 (ABCC3) (NM_003786) Human Tagged ORF Clone                             |
| Tag:                      | TurboGFP  |
| Symbol:                   | ABCC3   |
| Synonyms:                 | ABC31; cMOAT2; EST90757; MLP2; MOAT-D; MRP3                                 |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)   |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| ORF Nucleotide Sequence:  | >RG221522 representing NM_003786<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACGCCCTGTGCGGTTCCGGGGAGCTCGGCTCCAAGTTCTGGGACTCCAACCTGTCTGTGCACACAG  
AAAACCCGGACCTCACTCCCTGCTTCCAGAACTCCCTGCTGGCCTGGGTGCCCTGCATCTACCTGTGGGT  
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AAGCTCAAGATGGTCTGGGTGCTCTGCTGTGGTGCCTCTCTGGGCGGACCTTTTTACTCCTTCCATG  
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GCTGGCCACCCTGCTGATACAGTATGAGCGGCTGCAGGGCGTACAGTCTTCGGGGGTCTCATTATCTTC  
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CAATCCACAGCTGCTCAGCATCCTGATCAGTTTTATCTCAACCCCATGGCCCCCTCTGGTGGGGCTTC  
CTGGTGGCTGGGCTGATGTTCTGTGCTCCATGATGCAGTCGCTGATCTTACAACACTATTACCACTACA  
TCTTTGTGACTGGGGTGAAGTTTCGTAAGGATCATGGGTGTCATCTACAGGAAGGCTCTGGTTATCAC  
CAACTCAGTCAAACGTGCGTCCACTGTGGGGGAAATTGTCAACCTCATGTCAGTGGATGCCAGCGCTTC  
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TCTGGCAGAACCTAGTCCCTCTGCTGGTGGAGTCGCTTTCATGGTCTTCTGCTGATTCCACTCAACGG  
AGCTGTGGCCGTGAAGATGCGCGCCTTCCAGGTAAGCAAATGAAATTGAAGGACTCGCGCATCAAGCTG



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ATGAGTGAGATCCTGAACGGCATCAAGGTGCTGAAGCTGTACGCCTGGGAGCCCAGCTTCCTGAAGCAGG  
 TGGAGGGCATCAGGCAGGGTGAGCTCCAGCTGCTGCGCACGGCGGCTACCTCCACACCACAACCACCTT  
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 TGGTCTGGACAAAGGAGTAGTAGCTGAATTTGATTCTCCAGCCAACCTCATTGCAGCTAGAGGCATCTT  
 CTACGGGATGGCCAGAGATGCTGGACTTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG221522 representing NM\_003786  
 Red=Cloning site Green=Tags(s)

MDALCGSGELGSKFWDSNL SVHTENPDL TPCFQNSLLAWVPC IYLWVALPCYLL YLRHHC RGYI ILSHLS  
 K L K M V L G V L L W C V S W A D L F Y S F H G L V H G R A P A P V F V T P L V V G V T M L L A T L L I Q Y E R L Q G V Q S S G V L I I F  
 W F L C V V C A I V P F R S K I L L A K A E G E I S D P F R F T T F Y I H F A L V L S A L I L A C F R E K P P F S A K N V D P N P Y P E T  
 S A G F L S R L F F W F T K M A I Y G Y R H P L E E K D L W S L K E E D R S Q M V V Q L L E A W R K Q E K Q T A R H K A S A A P G K N A  
 S G E D E V L L G A R P R P R K P S F L K A L L A T F G S S F L I S A C F K L I Q D L L S F I N P Q L L S I L I R F I S N P M A P S W W G F  
 L V A G L M F L C S M M Q S L I L Q H Y Y H Y I F V T G V K F R T G I M G V I Y R K A L V I T N S V K R A S T V G E I V N L M S V D A Q R F  
 M D L A P F L N L L W S A P L Q I I L A I Y F L W Q N L G P S V L A G V A F M V L L I P L N G A V A V K M R A F Q V K Q M K L K D S R I K L  
 M S E I L N G I K V L K L Y A W E P S F L K Q V E G I R Q G E L Q L L R T A A Y L H T T T T F T W M C S P F L V T L I T L W V Y V Y V D P N  
 N V L D A E K A F V S V S L F N I L R L P L N M L P Q L I S N L T Q A S V S L K R I Q Q F L S Q E E L D P Q S V E R K T I S P G Y A I T I H  
 S G T F T W A Q D L P P T L H S L D I Q V P K G A L V A V V G P V G C G K S S L V S A L L G E M E K L E G K V H M K G S V A Y V P Q Q A W I  
 Q N C T L Q E N V L F G K A L N P K R Y Q Q T L E A C A L L A D L E M L P G G D Q T E I G E K G I N L S G G Q R Q R V S L A R A V Y S D A D  
 I F L L D D P L S A V D S H V A K H I F D H V I G P E G V L A G K T R V L V T H G I S F L P Q T D F I I V L A D G Q V S E M G P Y P A L L Q  
 R N G S F A N F L C N Y A P D E D Q G H L E D S W T A L E G A E D K E A L L I E D T L S N H T D L T D N D P V T Y V V Q Q F M R Q L S A L  
 S S D G E G Q G R P V P R R H L G P S E K V Q V T E A K A D G A L T Q E E K A A I G T V E L S V F W D Y A K A V G L C T T L A I C L L Y V G  
 Q S A A A I G A N V W L S A W T N D A M A D S R Q N N T S L R L G V Y A A L G I L Q G F L V M L A A M A M A A G G I Q A A R V L H Q A L L H  
 N K I R S P Q S F F D T T P S G R I L N C F S K D I Y V D E V L A P V I L M L L N S F F N A I S T L V V I M A S T P L F T V V I L P L A V  
 L Y T L V Q R F Y A A T S R Q L K R L E S V S R S P I Y S H F S E T V T G A S V I R A Y N R S R D F E I I S D T K V D A N Q R S C Y P I I  
 S N R W L S I G V E F V G N C V V L F A A L F A V I G R S S L N P G L V G L S V S Y S L Q V T F A L N W M I R M M S D L E S N I V A V E R V  
 K E Y S K T E T E A P W V V E G S R P P E G W P P R G E V E F R N Y S V R Y R P G L D L V L R D L S L H V H G G E K V G I V G R T G A G K S  
 S M T L C L F R I L E A A K G E I R I D G L N V A D I G L H D L R S Q L T I I P Q D P I L F S G T L R M N L D P F G S Y S E E D I W W A L E  
 L S H L H T F V S S Q P A G L D F Q C S E G G E N L S V G Q R Q L V C L A R A L L R K S R I L V L D E A T A A I D L E T D N L I Q A T I R T  
 Q F D T C T V L T I A H R L N T I M D Y T R V L V L D K G V V A E F D S P A N L I A A R G I F Y G M A R D A G L A

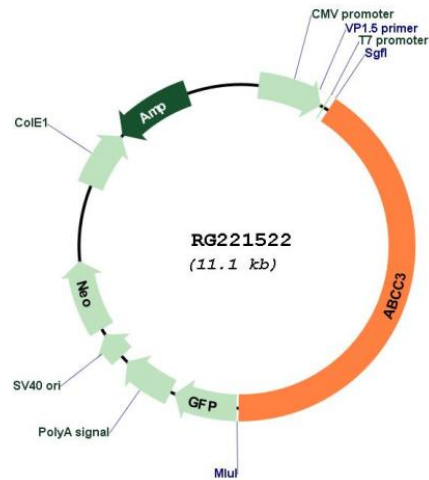
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



**Plasmid Map:**


**ACCN:** NM\_003786

**ORF Size:** 4581 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).

|                               |   |
|-------------------------------|---|
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>   |
| <b>RefSeq:</b>                | <a href="#">NM_003786.4</a>   |
| <b>RefSeq Size:</b>           | 5176 bp   |
| <b>RefSeq ORF:</b>            | 4584 bp   |
| <b>Locus ID:</b>              | 8714  |
| <b>UniProt ID:</b>            | <a href="#">O15438</a>  |
| <b>Cytogenetics:</b>          | 17q21.33  |
| <b>Protein Families:</b>      | Druggable Genome, Transmembrane   |
| <b>Protein Pathways:</b>      | ABC transporters  |
| <b>Gene Summary:</b>          | <p>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). This protein is a member of the MRP subfamily which is involved in multi-drug resistance. The specific function of this protein has not yet been determined; however, this protein may play a role in the transport of biliary and intestinal excretion of organic anions. Alternatively spliced variants which encode different protein isoforms have been described; however, not all variants have been fully characterized. [provided by RefSeq, Jul 2008]</p> |