

## Product datasheet for **MG212120**

### Abca4 (NM\_007378) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Abca4 (NM\_007378) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Abca4  
**Synonyms:** Abc1; Abc10; Abcr; AW050280; D430003I15Rik; R; RmP  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG212120 representing NM\_007378  
 Red=Cloning site Blue=ORF Green=Tags(s)

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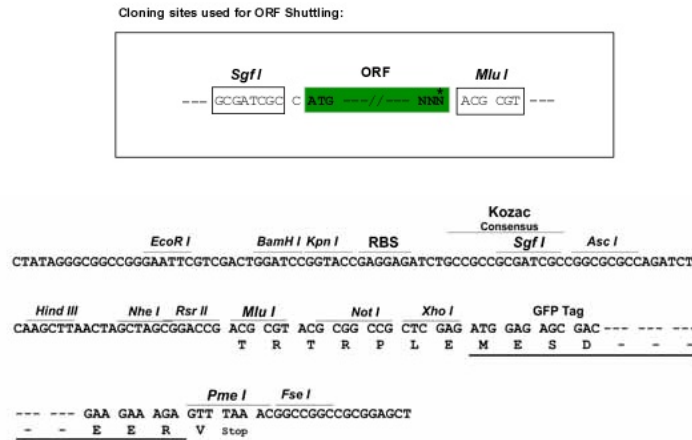
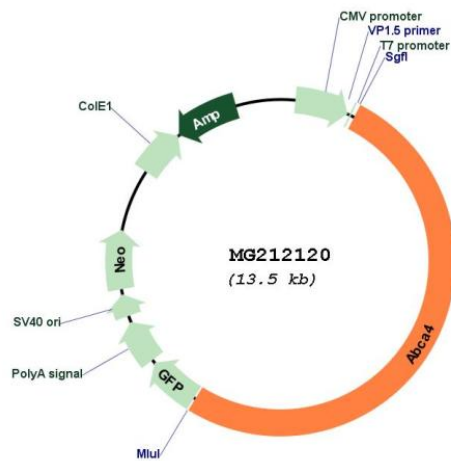
**Protein Sequence:** >MG212120 representing NM\_007378  
 Red=Cloning site Green=Tags(s)

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```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_007378

**ORF Size:** 6930 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\\_007378.1](#), [NP\\_031404.1](#)

**RefSeq Size:** 7268 bp

**RefSeq ORF:** 6933 bp

**Locus ID:** 11304

**UniProt ID:** [O35600](#)

**Cytogenetics:** 3 52.94 cM

**Gene Summary:** The membrane-associated 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 intracellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the ABC1 subfamily. Members of the ABC1 subfamily comprise the only major ABC subfamily found exclusively in multicellular eukaryotes. This protein was the first of the ABC transporters to be observed in photoreceptors and may play a role in the photoresponse. Mutations in the human gene are found in patients diagnosed with Stargardt disease and are associated with retinitis pigmentosa-19 and macular degeneration age-related 2. [provided by RefSeq, Jul 2008]