

## Recombinant Mouse Abca1, His-tagged

**Cat. No.** Abca1-3728M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	ATP-binding cassette sub-family A member 1 (Abca1), partial
<b>Species</b>	Mouse
<b>Source</b>	E.Coli/Yeast
<b>ProteinLength</b>	2261
<b>Description</b>	<p>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. In humans, this protein functions as a cholesterol efflux pump in the cellular lipid removal pathway. Mutations in the human gene have been associated with Tangier's disease and familial high-density lipoprotein deficiency.</p>
<b>Form</b>	This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.
<b>Purity</b>	>90%
<b>Notes</b>	Small volumes of Abca1 recombinant protein may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly

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centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container's cap. Certain products may require to ship with dry ice.

**Storage** Store at -20 degree C. For extended storage, store at -20 or -80 degree C.

**Storage Buffer** PBS pH 7.4, 50% glycerol

**Warning** This product is for research use only. Not for use in diagnostic or therapeutic procedures.

## GENE INFORMATION

**Gene Name** [Abca1 ATP-binding cassette, sub-family A \(ABC1\), member 1 \[ Mus musculus \]](#)

**Official Symbol** Abca1

**Synonyms** ABCA1; ATP-binding cassette, sub-family A (ABC1), member 1; ATP-binding cassette sub-family A member 1; ATP-binding cassette 1; ATP-binding cassette transporter 1; Abc1; ABC-1;

**Gene ID** [11303](#)

**mRNA Refseq** [NM\\_013454](#)

**Protein Refseq** [NP\\_038482](#)

**Chromosome Location** Chromosome: 4; NC\_000070.6 (53030789..53159988, complement)

**Pathway** ABC transporters, organism-specific biosystem; ABC transporters, conserved biosystem; Fat digestion and absorption, organism-specific biosystem; Fat digestion

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and absorption, conserved biosystem; HDL-mediated lipid transport, organism-specific biosystem;

**Function**

ATP binding; ATPase activity; ATPase activity, coupled to transmembrane movement of substances; anion transmembrane transporter activity; apolipoprotein A-I binding; apolipoprotein A-I receptor activity; apolipoprotein binding; cholesterol transporter activity; cholesterol transporter activity; cholesterol transporter activity; nucleoside-triphosphatase activity; nucleotide binding; phospholipid transporter activity; phospholipid transporter activity; phospholipid transporter activity; protein binding; small GTPase binding; syntaxin binding;

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