

## Product Information

### **MemDX™ Membrane Protein Human MBOAT7 (Membrane bound O-acyltransferase domain containing 7) Full Length**

Cat. No.: **MPC3623K**

This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human MBOAT7 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

#### Product Specifications

##### Host Species

Human

##### Target Protein

MBOAT7

##### Protein Length

Full length

##### Protein Class

Transferase

##### TMD

6

##### Sequence

MSPEEWTYLVVLLISIPIGFLFKKAGPGLKRWGAAAVGLGLTLFTCGPHT  
LHSLVTILGTWALIAQPCSCHALALAWTFSYLLFFRALSLGLPTPTPF  
TNAVQLLLTCLKVSLASEVQDLHLAQRKEMASGFSKGPTLGLLPDVPSLM  
ETLSYSYCYVGIMTGPFRRYRTYLDWLEQPFPGAVPSLRPLLRRWPAPL  
FGLLFLLSSHLFPLEAVREDAFYARPLPARLFYMIPVFFAFRMRFYVAWI  
AAECGCIAAGFGAYPVAAKARAGGGPTLQCPPPSSPEKAASLEYDYETIR  
NIDCYSTDFCVRVRDGMRYWNMTVQWWLAQYIYKSAPARSYVLRSAWTML  
LSAYWHGLHPGYLSFLTIPCLAAEGRLESALRGRLSPGGQKAWDWWHW  
FLKMRAYDYMCMGFVLLSLADTLRYWASIYFCIHFLAALGLGLALGGG  
SPSRRKAASQPTSLAPEKLREE

#### Product Description

##### Expression Systems

HEK293

##### Tag

Based on specific requirements

**Protein Format**

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

**Form**

Liquid

**Storage**

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

**Target****Target Protein**

MBOAT7

**Full Name**

Membrane bound O-acyltransferase domain containing 7

**Introduction**

This gene encodes a member of the membrane-bound O-acyltransferases family of integral membrane proteins that have acyltransferase activity. The encoded protein is a lysophosphatidylinositol acyltransferase that has specificity for arachidonoyl-CoA as an acyl donor. This protein is involved in the reacylation of phospholipids as part of the phospholipid remodeling pathway known as the Land cycle. Alternative splicing results in multiple transcript variants.

**Alternative Names**

MBOAT7; BB1; LRC4; LENG4; LPIAT; LPLAT; MBOA7; MRT57; OACT7; hMBOA-7; lysophospholipid acyltransferase 7; 1-acylglycerophosphatidylinositol O-acyltransferase; LPLAT 7; bladder and breast carcinoma-overexpressed gene 1 protein; h-mboa-7; leukocyte receptor cluster (LRC) member 4; lyso-PI acyltransferase; lysophosphatidylinositol acyltransferase; malignant cell expression-enhanced gene/tumor progression-enhanced; Membrane bound O-acyltransferase domain containing 7

**Gene ID**

[79143](#)

**UniProt ID**

[Q96N66](#)