

## Product Information

### MemDX™ Membrane Protein Human GJA1 (Gap junction protein alpha 1) Full Length

Cat. No.: **MPC0528K**

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

This product is a 43 kDa Human GJA1 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

GJA1

##### Protein Length

Full length

##### Protein Class

Transporter

##### Molecular Weight

43 kDa

##### TMD

4

##### Sequence

MGDWSALGKLLDKVQAYSTAGGKVWLSVLFIFRILLGTAVERSAWGDEQS  
AFRCNTQQPGCENVCYDKSFPISHVRFWVLQIIFVSVPTLLYLAHVFFYVM  
RKEEKLNKKEEELKVAQTDGVNVDMLKQIEIKFKYGIEEHGKVKMRGG  
LLRTYIISILFKSIFEVAFLLIQWYIYGFSLSAVYTCKRDPCPHQVDCFL  
SRPTEKTIFIIFMLVVSLSLALNIIELFYVFFKGVKDRVKGKSDPYHAT  
SGALSPAKDCGSQKYAYFNGCSSPTAPLSPMSPPGYKLVTDGRNNSCRN  
YNKQASEQNWANYSAEQNRMGQAGSTISNSHAQPFDFPDNDQNSKKLAAG  
HELQPLAIVDQRPSSRASSRASSRPRPDDEI

#### Product Description

##### Expression Systems

HEK293

##### Tag

Based on specific requirements

**Protein Format**

Detergent or based on specific requirements

**Form**

Liquid

**Storage**

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

**Target****Target Protein**

GJA1

**Full Name**

Gap junction protein alpha 1

**Introduction**

This gene is a member of the connexin gene family. The encoded protein is a component of gap junctions, which are composed of arrays of intercellular channels that provide a route for the diffusion of low molecular weight materials from cell to cell. The encoded protein is the major protein of gap junctions in the heart that are thought to have a crucial role in the synchronized contraction of the heart and in embryonic development. A related intronless pseudogene has been mapped to chromosome 5. Mutations in this gene have been associated with oculodentodigital dysplasia, autosomal recessive craniometaphyseal dysplasia and heart malformations.

**Alternative Names**

HSS; CMDR; CX43; EKVP; GJAL; ODDD; AVSD3; EKVP3; HLHS1; PPKCA; connexin-43; gap junction 43 kDa heart protein; gap junction protein, alpha 1, 43kDa; gap junction alpha-1 protein; GJA1; Gap junction protein alpha 1

**Gene ID**

[2697](#)

**UniProt ID**

[P17302](#)