

Product Information

MemDX™ Membrane Protein Human TRPM1 (Transient receptor potential cation channel subfamily M member 1) Full Length

Cat. No.: **MPC0962K**

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

This product is a 182.1 kDa Human TRPM1 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

TRPM1

Protein Length

Full length

Protein Class

Transporter; Ion channel

Molecular Weight

182.1 kDa

TMD

6

Sequence

MKDSNRCCCGQFTNQHIPPLPSATPSKNEEESKQVETQPEKWSVAKHTQS
YPTDSYGVLEFQGGGYSNKAMYIRVSYDTKPDSSLHLMVKDWQLELPKLL
ISVHGGLQNFEMQPKLKQVFGKGLIKAAMTTGAWIFTGGVSTGVISHVGD
ALKDHSSKSRGRVCAIGIAPWGIVENKEDLVGKDVTRVYQTMSNPLSKLS
VLNNSHTHFILADNGTLGKYGAEVKLRRLLEKHISLQKINTRLGQGVPLV
GLVVEGGPNVVSIVLEYLQEEPIPVVICDGSGRASDILSFAHKYCEEGL
IINESLREQLLVTIQKTFNYNKAQSHQLFAIMECMKKKELVTVFRMGSE
GQQDIEMAILTALLKGTNVSAPDQLSLALAWNVRVDIARSQIFVFGPHWPP
LGSLAPPTDSKATEKEKKPPMATTKGGRGKGKGGKGGKGVKEEVEEETDPR
KIELLNWVNALEQAMLDALVLDVRVDFVKLLIENGVMQHFLLTIPRLEELY
NTRLGPPNTLHLLVRDVKKSNNLPPDYHISLIDIGLVLEYLMGGAYRCNYT
RKNFRTLNNLFGPKRPKALKLLGMEDEPPAKGKKKKKKKKKEEIDIDV
DDPAVSRFQYPFHELMVWAVLMKRQKMAVFLWQRGEESMAKALVACKLYK
AMAHESSESDLVDDISQDLNNSKDFGQLALELLDQSYKHDEQIAMKLLT
YELKNWSNSTCLKLAVAAKHRDFIAHTCSQMLLTDMMWGRRLMRKNPGLK
VIMGILLPPTILFLEFRTYDDFSYQTSKENEDGKEKEEENTDANADAGSR
KGDEENEHKKQRSIPIGTKICEFYNAPIVKFWFYTISYLGYLFFFNYVIL
VRMDGWPSLQEWIVISYIVSLALEKIREILMSEPGKLSQKIKVWLQEYWN
ITDLVAISTFMIGAILRLQNQPYMGYGRVIYCVDIIFWYIRVLDIFGVNK

YLGPIYVMMIGKMMIDMLYFVVIMLVVLSFGVARQAILHPEEKPSWKLAR
NIFYMPYWMIYGEVFADQIDLYAMEINPPCGENLYDEEGKRLPPCIPGAW
LTPALMACYLLVANILLVNLLIAVFNNTFFEVKSISNQVWKFRYQLIMT
FHDRPVLPPMIILSHIYIIMRLSGRCRKKREGDQEERDRGLKLFLSDE
ELKRLHEFEEQCVQEHEFREKEDEQQSSSDERIRVTSERVENMSMRLEEIN
ERETFMKTSLQTVDLRLAQLEELSNRMVNALENLAGIDRSDLIQARSRAS
SECEATYLLRQSSINSADGYSLYRYHFNGEELLFEDTSLSTSPGTGVRKK
TCSFRIKEEKDVKTHLVPECQNSLHLSLGTSTSATPDGSHLAVDDLKNAE
ESKLGPDIGISKEDDERQTDKKEETISPSLNKTDVIHGQDKSDVQNTQL
TVETTNIEGTISYPLEETKITRYFPDETINACKTMKRSFVYSRGRKLVG
GVNQDVEYSSITDQQLTTEWQCQVQKITRSHSTDIPYIVSEAAVQAEHKE
QFADMQDEHHVAEAIPIRPLSLTITDRNGMENLLSVKPDQTLGFPSLRS
KSLHGHPRNVKSIQGLDRSGHASSVSSLVIVSGMTAEKKVKKEKASTE
TEC

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 -72°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

TRPM1

Full Name

Transient receptor potential cation channel subfamily M member 1

Introduction

This gene encodes a member of the transient receptor potential melastatin subfamily of transient receptor potential ion channels. The encoded protein is a calcium permeable cation channel that is expressed in melanocytes and may play a role in melanin synthesis. Specific mutations in this gene are the cause autosomal recessive complete congenital stationary night blindness-1C. The expression of this protein is inversely correlated with melanoma aggressiveness and as such it is used as a prognostic marker for melanoma metastasis. Alternate splicing results in multiple transcript variants.

Alternative Names

MLSN1; CSNB1C; LTRPC1; transient receptor potential cation channel subfamily M member 1; long transient receptor potential channel 1; melastatin-1; transient receptor potential melastatin family; TRPM1; Transient receptor potential cation channel subfamily M member 1

Gene ID

[4308](#)

UniProt ID

[Q7Z4N2](#)