

Product Information

MemDX™ Membrane Protein Human ADGRV1 (Adhesion G protein-coupled receptor V1)

Full Length

Cat. No.: **MPC1683K**

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

This product is a 693 kDa Human ADGRV1 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

ADGRV1

Protein Length

Full length

Protein Class

GPCR

Molecular Weight

693 kDa

TMD

7

Sequence

MSVFLGPGMPSASLLVNLLSALLILFVFGETEIRFTGQTEFVVNETSTTV
IRLIIERIGEPANVTAIVSLYGEDAGDFFDTYAAAFIPAGETNRTVYIAV
CDDDLPEPDETFIFHLTLQKPSANVKLGWPRTVTVTILSNDNAFGIISFN
MLPSIAVSEPCKGRNESMPLTLIREKGTYGMVMVTFEVEGGPNPPDEDLSP
VKGNIFFPPGRATVIYNLTVLDDDEVPENDEIFLIQLKSVEGGAEINTSRN
SIEIIKKNDSPVRFLQSIYLVPEEDHILIPVVRGKDNNGNLIGSDEYE
VSISYAVTTGNSTAHAAQQNLDLQNPNTTVVFPPFIHESHLKFQIVDDT
IPEIAESFHIMLLKDTLQGDAVLISPSVVQVTIKPNDKPYGVLSFNSVLF
ERTVIIDEDRISRYEEITVVRNGGTHGNVSANWVLTRNSTDPSPVTADIR
PSSGVLHFAQQGMLATIPLTVVDDDLPEEAAYLLQILPHTIRGGAEVSE
PAELLFYIQDSDDVYGLITFFPMENQKIESSPGERYLSLSFTRLGGTKGD
VRLLYSVLYIPAGAVDPLQAKEGILNISRRNDLIFPEQKTQVTTKLPIRN
DAFLQNGAHFLVQLETVELLNIIPLIPPISPRFGEICNISLLVTPAIANG
EIGFLSNLPIILHEPEDFAAEVVYIPLHRDGTGQATVYWSLKPSGFNSK
AVTPDDIGPFNGSVLFLSGQSDTTINITIKGDDIPEMNETVTLSDRVNV
ENQVLKSGYTSRDLIILENDPGGVFEFSPASRGPHYVIKESVELHIIR
SRGSLVKQFLHYRVEPRDSNEFYGNTGVLEFKPGEREIVITLLARLDGIP
ELDEHYWVVLSSHGERESKLGSATIVNITILKNDDPHGIEFVSDGLIVM
INESKGDALYSVYDVVRNRGNFGDVSWSVWVSPDFTQDVFPVQGTTVVFG

DQEF SKNITIYSLPDEIPEEMEEFTVILLNGTGGA KVG NR TTATLRIRRN
DDPIYFAEPRVVRVQEGETANFTVLRNGSV DVT CMVQYATKDGKATARER
DFIPVEKGETLIFEVGS RQQSISIFVNEDGIPETDEPFYIILLNSTGDTV
VYQYGVATVIEANDDPNGIFSLEPIDKAVEEGKTNAFWILRH RGYFGSV
SVSWQLFQNDSALQPGQEFYETSGTVNFM DGE EAKPIILHAFDPK IPEFN
EFYFLKLVNISGGSPGPGGQLAETNLQVTVMVPFNDDPFGV FILDPECLE
REVAEDVLSEDDMSYITNFTILRQQGVFGDVQLGWEILSSEFPAGLPPMI
DFLLVGIFPTTVHLQQHMRRHHS GTDALYFTGLEGA FGTVNPKYHPSRNN
TIANFTFSAWVMPNANTNGFIIAKDDGNGSIYYGVKIQT NESHVTL SLHY
KTLGSNATYIAKTTVMKYLEESVWLHLLIILEDGII E FYLDGNAMPRIK
SLKGEAITDGPILRIGAGINGNDRFTGLMQDVRSYERKLTLEEIYELHA
MPAKSDLHPISGYLEFRQGETNKSFIISARDDNDEEGEELFILKLVSVYG
GARISEENTTARLTIQKSDNANGLFGFTGACIPEIAEEGSTISC VVERTR
GALDYVHV FYTISQIETDGINYLVDDFANASGTITFLPWQRSEVLNIYVL
DDDIPELNEYFRVTLVSAIPGDGKLGSTPTSGASIDPEKETTDITIKASD
HPYGLLQFSTGLPPQPKDAMTLPASSVPHITVEEEDGEIRLLVIRAQGLL
GRVTAEFRTVSLTAFSPEDYQNVAGTLEFQPGERYKYIFINITDNSIPEL
EKSFKVELLNLEGGVAELFRVDGSGSGDGDMEFFLPTIHKRASLGVASQI
LVTIAASDHAHGVFEFSPESLFVSGTEPEDGYSTVTLNVIRHHGTLSPVT
LHWNIDSDPDGDLAFTSGNITFEIGQTSANITVEILPDEDP ELDKAFSVS
VLSVSSGSLGAHINATLTVLASDDPYGIFIFSEKNRPVKVEEATQNITLS
IIRLKGLMGKVLVSYATLDDMEKPPYFPPN LARATQGRDYIPASGFALFG
ANQSEATIAISILDDPERSES VFIELLNSTLVAKVQSR SIPNSPRLGP
KVETIAQLIIANDDAFGTLQLSAPIVRVAENHVGPIINVT RTGGAFADV
SVKFAVPITAIAGEDYSIASSDVLLLEGETSKAVPIYVINDIYPELEES
FLVQLMNETTG GARLGALTEAVIIIEASDDPYGLFGFQITKLIVEEPEFN
SVKVNLPPIRNSGTLGNVTVQWVATINGQLATGDLRVVSGNVTFAPGETI
QTLLEVLADDVPEIEEVIQVQLTDASGGGTIGLDRIANIIIPANDDPYG
TVAF AQMVYRVQEPLERSSCANITVRRSGGHFGRLLL FYSTSDIDVVALA
MEEGQDLLSYYESPIQGVPDPLWRTWMNVSAVGEPLYTCATLCLKEQACS
AFSFFSASEGPQCFWMTSWISPAVNNSDFW TYRKNMTRVASLFSGQAVAG
SDYEPVTRQWAIMQEGDEFANLTVSILPDDFPEMDESFLISLLEVHLMNI
SASLKNQPTIGQPNISTVVIALNGDAFGVFVIYNISPNTSE DGLFVEVQE
QPQTLVELMIHRTGGS LGQVAVEWRVVGGTATEGLDFIGAGEILTFAEGE
TKKT VILTILDDSEPEDDESIVSLVYTEGGSRILPSSD TVRVNILANDN
VAGIVSFQTASRSVIGHEGEILQFHVIRTFPGRGNVTVNWKIIGQNLELN
FANFSGQLFFPEGSLNTTLFVHLLDDNIPEEKEVYQVILYDVRTQGVPPA
GIALDAQGYAAVLTEASDEPHGVLN FALSSRFVLLQEANITIQLFINR
EFGSLGAINVTYTTVP GMLSLKNQTVGNLAEPEVDFVPIIGFLILEEGET
AAAINITILEDVPELEEYFLVNLTYVGLTMAASTSFPPRLDSEGLTAQV
IIDANDGARGVIEWQQSRFEVNETHGSLTLVAQRSREPLGHVSLFVYAQN
LEAQVGLDYIFTMILHFADGERYKNVNIMILDDDIPEGDEKFQLILTNP
SPGLELGKNTIALIIVLANDDGPGVLSFNNSEHFFLREPTALYVQESVAV
LYIVREPAQGLFGTVTVQFIVTEVNSSNESKDLTPSKGYIVLEEGVRFKA
LQISAILDTEPEMDEYFVCTLFNPTGGARLGVHVQTLITVLQNQAPLGLF
SISAVENRATSIDIEEANRTVYLVNVSRTNGIDLAVSVQWETVSETAFGMR
GMDVVFVSFQSF LDESASGWCFFTLENLIYGIMLRKSSVTYRWQGIFIP
VEDLNIENPKTCEAFNIGFSPYFVITHEERNEEKPSLNSVFTFTSGFKLF
LVQTIILLESSQVRYFTSDSQDYLIASQRDDSELTQVFRWNGGSFVLHQ
KLPVRGVLTVALFNKGGSVFLAISQANARLN SLLFRWSGSGFINFQEV PV
SGTTEVEALSSANDIYLIFAENVFLGDQNSIDIFIWEMGQSSFRYFQSVD
FAAVNRIHSFTPASGIAHILLIGQDMSALYCWN SERNQFSFVLEVP SAYD
VASVTVKSLNSSKNLALVEGAHSHIYELAYISSHSD FIPSSGELIFEPGE
REATIAVNILDDTVPELKEGFKVQLKNPKGGA EIGINDSVTITILSNDDA
YGIVAF AQNSLYKQVEEME QDSLVTNLNVERLKGTYGRITIAWEADGSISD
IFPTSGVILFTEGQVLSTITLTILADNIPELSEVVIVTLTRITTEGVEDS
YKGATIDQDRSKSVITTLPNDS PFGLVGWRAASVFIRVAEPKENTTTTLQL
QIARDKGLLDGIAIHLRAQPNFLLHVDNQATENEDYVLQETIIIMKENIK
EAHA EVSILPDDLPELEEGFIVTITEVNLVNSDFSTGQPSVRRPGMEIAE
IMIEENDDPRGIFMFHVTRGAGEVITAYE VPPPLNVLQVPVVR LAGSFGA
VNVYWKASPD SAGLED FKPSHGILEFADKQVTAMIEITIIDDAEFELTET
FNISLISVAGGGRLGDDVVVTVVIPQNDSPFGVFGFEEKTVMIDESLSSD
DPDSYVTLTVVRSPGGKGTVRLEWTIDEKAKHNL SPLNGTLHFDETESQK
TIVLHTLQD TVLEEDRRFTIQLISIDEVEISPVKGSASIIIRGDKRASGE
VGIAPSSRHILIGEPSAKYNGT AII SLVRGPGILGEVTVFWRIFPPSVGE
FAETSGKLTMRDEQSAVIVVIQALNDDIPEEKS FYEFQLTAVSEGGVLSE

SSSTANITVVASDSPYGRFAFSHEQLRVSEAQRVNITIIRSSGDFGHVRL
WYKTMSTGAEAGLDFVPAAGELLFEAGEMRSLHVEILDDDYPEGPEEFS
LTIKVELQGRGYDFTIQENGLQIDQPPEIGNISIVRIIMKNDNAEGII
EFDPKYTAFEVEEDVGLIMIPVVRHLGTYGYVTADFISQSSSASPGGVDY
ILHGSTVTFQHGQNLFINISIIDDNESEFEPIEILLTGATGGAVLGRH
LVSRIIIAKSDSPFGVIRFLNQSKISIANPNSTMILSLVLERTGGLLGEI
QVNWETVGPNSQEALLPQNRDIADPVSGLFYFGEGEGGVRTIILTYPHE
EIEVEETFIIKLHLVKGEAKLDSRAKDVTLTIQEFGDPNGVVQFAPETLS
KKTYSEPLALEGPLLITFFVRRVKGTGFEIMVYWELSSSEFDITEDFLSTS
GFFTADGESEASFDVHLLPDEVPEIEEDYVIQLVSVEGGAELDLKSIT
WFSVYANDDPHGVFALYSDRQSILIGQNLRISIQINITRLAGTFGDVAVG
LRISSDHKEQPVTENAERQLVVKDGATYKVDVVPKQVFLSLGSNFTL
QLVTVMVLGGFRFYGMPTILQEAKSAVLPVSEKAANSQVGFESTAFQLMNI
TAGTSHVMISRRGTYGALSAVWTTGYAPGLEIPEFIVVGNMTPTLGSLSF
SHGEQRKGVFLWTFSPGWPEAFVLHLSGVQSSAPGGAQLRSGFIVAEIE
PMGVFQFSTSSRNIVSEDTQMIRLHVQRLFGFHSDLIKVSYQTTAGSAK
PLEDFEPVQNGELFFQKFQTEVDFEITIINDQLSEIEEFFYINLTSVEIR
GLQKFDVNWSPRLNLDVSAVITILDNDDLAGMDISFPETTVAVAVDTTL
IPVETESTTYLSTSKTTTTILQPTNVVAIVTEATGVSAIPEKLVTLHGTPA
VSEKPDVATVTANVSIHGTFSLGPSIVYIEEEMKNGTFNTAEVLIRRTGG
FTGNVSITVKTFGERCAQMEPNALPFRGIYGISNLTWAVEEEDFEEQTLT
LIFLDGERERKVSQILDDDEPEGQEFFFVFLTNPQGGAQIVEEKDDTGF
AAFAMVIITGSDLHNGIIGFSEESQSGLELREGAVMRRHLIVTRQPNRA
FEDVKVFWRVTLNKTVVVLQKDGVNLEELQSVSGTTTCTMGQTKCFISI
ELKPEKVPQVEVYFFVELYEATAGAAINNSARFAQIKILESDSQSLVYF
SVGSRLAVAHKKATLISLQVARDSGTGLMMSVNFSTQELRSAETIGRTII
SPAISGKDFVITEGTLVFEPGQRSTVLDVILTPETGSLNSFPKRFQIVLF
DPKGGARIDKVYGTANITLVSDADSQAIWGLADQLHQPVNDDILNRVLHT
ISMKVATENTDEQLSAMMHLEKITTEGKIQAQSVASRTLFEILCSLIN
PKRKDTRGFSHFAEVTENFAFSLLTNVTCGSPGEKSKTILDSCPYSILA
LHWYPQQINGHKFEGKEGDYIRIPERLLDVQDAEIMAGKSTCKLVQFTEY
SSQQWFISGNNPLTLKNKVLSSLVKGQSSQLLTNDNEVLYRIYAAEPRII
PQTSCLLLWNQAAASWLSDSQFCKVVEETADYVECACSHMSVYAVYARTD
NLSSYNEAFFTSGFICISGLCLAVLSHIFCARYSMFAAKLLTHMMAASLG
TQILFLASAYASPQLAEESCSAMAAVTHYLYLCQFSWMLIQSVNFWYVLV
MNDEHTERRYLLFFLLSWGLPAFVVILLIVILKGIYHQSMSQIYGLIHGD
LCFIPNVYAALFTAALVPLTCLVVVFVFIHAYQVKPQWKAYDDVFRGRT
NAAEIPLILYLFALISVTWLWGGLHMAYRHFWMVLVLFVIFNSLQGLYVFM
VYFILHNQMCCPMKASYTVMNGHPGPSTAFFTPGSGMPPAGGEISKSTQ
NLIGAMEEVPPDWERASFQQGSQASPDLPSPQNGATFPSSGGYGQGSLLI
ADEESQEFDLIFALKTGAGLSVSDNESGQGSQEGGTLTDSQIVELRRIP
IADTHL

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

ADGRV1

Full Name

Adhesion G protein-coupled receptor V1

Introduction

This gene encodes a member of the G-protein coupled receptor superfamily. The encoded protein contains a 7-transmembrane receptor domain, binds calcium and is expressed in the central nervous system. Mutations in this gene are associated with Usher syndrome 2 and familial febrile seizures. Several alternatively spliced transcripts have been described.

Alternative Names

ADGRV1; FEB4; GPR98; MASS1; USH2B; USH2C; VLGR1; VLGR1b; adhesion G-protein coupled receptor V1; G-protein coupled receptor 98; monogenic audiogenic seizure susceptibility protein 1 homolog; usher syndrome type-2C protein; very large G-protein coupled receptor 1; Adhesion G protein-coupled receptor V1

Gene ID

[84059](#)

UniProt ID

[Q8WVG9](#)