

Product Information

MemDX™ Membrane Protein Human CELSR1 (Cadherin EGF LAG seven-pass G-type receptor 1) Full Length

Cat. No.: **MPC0059K**

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

This product is a 329.4 kDa Human CELSR1 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

CELSR1

Protein Length

Full length

Protein Class

GPCR

Molecular Weight

329.4 kDa

TMD

7

Sequence

MAPPPPPVLPVLLLLAAAAALPAMGLRAAAWEPRVPGGTRAFALRPGCTY
AVGAACTPRAPRELLDVGRDGRLAGRRRVSGAGRPLPLQVRLVARSA
PTALSRRRLRARTHLPGCGARARLCGTGARLCGALCFVPVPGGCAAQHS
ALAAPTTLPACRCPPRRPRCPGRPICLPVPGGSVRLRLCALRRAAGAVR
VGLALEAATAGTPSASPSPSPPLPPNLPEARAGPARRARRGTSGRGS
LKFMPMPNYQVALFENEPAGTLILQLHAHYTIEGEEERVSYMEGLFDER
SRGYFRIDSATGAVSTDVLDRETKETHVLRVKAVDYSTPPRSATTYITV
LVKDTNDHSPVFEQSEYRERVRENLEVGYEVLTIASDRDSPINANLRYR
VLGGAWDFVQLNESSGVVSTRAVLDRREEAAEYQLLVEANDQGRNPGP
LSATATVYIEVEDENDNYPQFSEQNYVVQVPEDVGLNTAVLRVQATDRD
QGGQNAIIHYSILSGNVAGQFYHLHSLSGILDVINPLDFEDVQKYSLSI
KAQDGGRPPLINSSGVVSVQVLDVNDNEPIFVSSPFQATVLENVPLGYP
VVHIQAVDADSGENARLHYRLVDTASTFLGGGSAGPKNPAPTDFPFQI
HNSSGWITVCAELDREEVEHYSFGVEAVDHGSPPMSSSTSVSITVLDV
NDNDPVFTQPTYELRLNEDAVGSSVLTQARDRDANSVITYQLTGGNTR
NRFALSSQRGGGLITLALPLDYKQEQQYVLAVTASDGTRSHTAHVLI
NVTDANTHRPVFQSSHYTVSVSEDRPVGTSIATLSANEDTGENARITY
VIQDPVPQFRIDPDSGTMYTMMELDYENQVAYTLTIMAQDNGIPQKS
DTTTTLEILILDANDNAPQFLWDFYQGSIFEDAPPSTSILQVSATDRD
SGPNGRLLYTFQGGDDGDGDIFYIEPTSGVI

RTQRRLDRENVAVYNLWALAVDRGSPTPLSASVEIQVTILDINDNAPMFE
KDELELFVEENNPVGSVAKIRANDPDEGPNAQIMYQIVEGDMRHHFFQLD
LLNGDLRAMVELDFEVRREYVLVVQATSAPLVSRATVHILLVDQNDNPPV
LPDFQILFNYYVTNKSNSFPTGVIGCIPAHDPDVSDSLNYTFVQGNELRL
LLLDPATGELQLSRDLNDRPLEALMEVSVSDGIHSVTAFCRLRVTIITD
DMLTNSITVRLENMSQEKFSLPLLALFVEGVAAVLSTTKDDVFVFNQND
TDVSSNINLVTFALLPGGVRGQFFPSEDLQEIQIYLNRTLLTTISTQRVL
PFDDNICLREPCENYMKCVSVLRFDSSAPFLSSTTVLFRPIHPINGLRCR
CPPGFTGDYCETEIDLCYSDPCGANGRCRSREGGYTCECFEDFTGEHCEV
DARSGRCANGVCCKNGGTCVNLLIGGFHCVCPPGEYERPYCEVTTRSFPQ
SFVTFRGLRQRFHFTISLTFATQERNGLLLYNGRFNEKHDFIALEIVDEQ
VQLTFSAGETTTTVPKVPSPGVSDGRWHSVQVQYYNKPNIHGLGLPHGPS
GEKMAVTVDDCDTTMAVRFKGDIGNYSCAAQGTQTGSKSLDLTGPLLL
GGVNPDPEDFPVHNRQFVGCMRNLSVDGKNVDMAGFIANNGTREGCAARR
NFCDGRRRCQNGGTCVNRWNMYLCECPLRFGGKNCEQAMPHQPLFSGESV
SWSDLNIIISVPWYGLMFRTRKEDSVLMEATSGGPTSFRLQILNNYLQF
EVSHGPSDVESVMSGLRVTDGEWHLLIELKNVKEDSEMKNLVTMTLDY
GMDQNKADIGGMLPGLTVRSVVVGASEDKVSVRRGFRGCMQGVVMGGTP
TNVATLNMNNALKVRVKDGDVDDPCTSSPCPPNSRCHDAWEDYSCVCDK
GYLGINCVDACHLNPENMGACVRSPGSPQGYVCECGPSHYGPYCENKLD
LPCPRGWGPNPVCPCCHCAVSKGFDPCNKTNGQCCKENYYKLLAQDTC
LPCDCFPHGSHSRTCMATGQCACKPGVIGRQCNRCDNPF AEVTTLGCEV
IYNGCPKAFAEAGIWWPQTKFGQPAAVPCPKGSVGNVHRHCSGEKGWLPPE
LFNCTTISFVDLRAMNEKLSRNETQVDGARALQLVRALRSATQHTGTLFG
NDVRTAYQLLGHVLQHESWQQGFDLAATQDADFHEDVIHSGSALLAPATR
AAWEQIQRSEGGAQLLRLEGYFSNVARNVRRTYLRPFVIVTANMILAV
DIFDKFNFTGARVPRFDTHIEEFPRELESSVSFPADFFRPPEEKEGPLL
PAGRRTTPQTTRPGPGEREAPISRRRRHPDDAGQFAVALVIIYRTLGL
LPERYDPDRSLRLPHRPIINTPMVSTLVYSEGAPLPRPLRPVLVEFAL
LEVEERTKPVCFWNHSLAVGGTGGWSARGCELLSRNRTHVACQCSHTAS
FAVLMDISRRRENGEVLPLKIVTYAAVSLSLAALLVAFVLLSLVRMLRSNL
HSIHKHLAVALFLSQLVFVIGINQTENPFLCTVVAILLHYIYMSTFAWTL
VESLHVYRMLTEVRNIDTGPMRFYVVGWGPVAVTGLAVGLDPQGYGNP
DFCWLSLQDTLIWSFAGPIGAVIINTVTSVLSAKVSCQRKHHYYGKKGI
VSLRLTAFLLLLLISATWLLGLLAVNRDALSFHYLFAIFSGLQGPVLLF
HCVLNQEVVRKHLKGVLGGRKLHLED SATTRATLLTRSLNCNTTFGDGPDM
LRTDLGESTASLDIVRDEGIQKLGVSGLVRGSHGEPDASLMPRSCKDP
PGHSDSDSELSLDEQSSSYASSHSDSEDDGVGAEEKWDPARGAVHSTP
KGDVANHVPAWPDQSLAESDSEDPGKPRKLVETKVSVELHREEQGS
RGEYPPDQESGGAARLASSQPPEQRKGILKNKVTPPLTLTEQTLKGRL
REKLADCEQSPTSSRTSSLGSGGPDCAITVKSPGREPGRDHLNGVAMNVR
TGSAQADGSDSEKP

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

CELSR1

Full Name

Cadherin EGF LAG seven-pass G-type receptor 1

Introduction

The protein encoded by this gene is a member of the flamingo subfamily, part of the cadherin superfamily. The flamingo subfamily consists of nonclassic-type cadherins; a subpopulation that does not interact with catenins. The flamingo cadherins are located at the plasma membrane and have nine cadherin domains, seven epidermal growth factor-like repeats and two laminin A G-type repeats in their ectodomain. They also have seven transmembrane domains, a characteristic unique to this subfamily. It is postulated that these proteins are receptors involved in contact-mediated communication, with cadherin domains acting as homophilic binding regions and the EGF-like domains involved in cell adhesion and receptor-ligand interactions. This particular member is a developmentally regulated, neural-specific gene which plays an unspecified role in early embryogenesis.

Alternative Names

ME2; FMI2; CDHF9; HFMI2; ADGRC1; cadherin EGF LAG seven-pass G-type receptor 1; adhesion G protein-coupled receptor C1; cadherin family member 9; cadherin, EGF LAG seven-pass G-type receptor 1 (flamingo homolog, Drosophila); flamingo homolog 2; protocadherin flamingo 2; CELSR1; Cadherin EGF LAG seven-pass G-type receptor 1

Gene ID

[9620](#)

UniProt ID

[Q9NYQ6](#)