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Nucleotide

▼

GenBank

Homo sapiens cadherin related family member 2 (CDHR2), transcript variant 1, mRNA

NCBI Reference Sequence: NM_001171976.2

[FASTA](#) [Graphics](#)

Go to:

LOCUS	NM_001171976	4509 bp	mRNA	linear	PRI 31-DEC-2022
DEFINITION	Homo sapiens cadherin related family member 2 (CDHR2), transcript variant 1, mRNA.				
ACCESSION	NM_001171976				
VERSION	NM_001171976.2				
KEYWORDS	RefSeq.				
SOURCE	Homo sapiens (human)				
ORGANISM	Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Haplorrhini; Catarrhini; Hominidae; Homo.				
REFERENCE	1 (bases 1 to 4509)				
AUTHORS	Gray ME, Johnson ZR, Modak D, Tamilselvan E, Tyska MJ and Sotomayor M.				
TITLE	Heterophilic and homophilic cadherin interactions in intestinal intermicrovillar links are species dependent				
JOURNAL	PLoS Biol 19 (12), e3001463 (2021)				
PUBMED	34871294				
REMARK	GeneRIF: Heterophilic and homophilic cadherin interactions in intestinal intermicrovillar links are species dependent. Publication Status: Online-Only				
REFERENCE	2 (bases 1 to 4509)				
AUTHORS	Crawley SW, Shifrin DA Jr, Grega-Larson NE, McConnell RE, Benesh AE, Mao S, Zheng Y, Zheng QY, Nam KT, Millis BA, Kachar B and Tyska MJ.				
TITLE	Intestinal brush border assembly driven by protocadherin-based intermicrovillar adhesion				
JOURNAL	Cell 157 (2), 433-446 (2014)				
PUBMED	24725409				
REMARK	GeneRIF: Study found that brush border assembly is driven by the formation of Ca(2+)-dependent adhesion links between adjacent microvilli. Intermicrovillar links are composed of protocadherin-24 and mucin-like protocadherin, which target to microvillar tips and interact to form a trans-heterophilic complex.				
REFERENCE	3 (bases 1 to 4509)				
AUTHORS	Behrendt M, Krahn MP, Al-Bayati H, Amiri M, Rizk S and Naim HY.				
TITLE	Cadherin-related protein 24 induces morphological changes and partial cell polarization by facilitating direct cell-cell interactions				
JOURNAL	Biol Chem 393 (6), 495-503 (2012)				
PUBMED	22628312				
REMARK	GeneRIF: CDHR24 is directly involved in cell and tissue morphogenesis				
REFERENCE	4 (bases 1 to 4509)				
AUTHORS	McConnell RE, Benesh AE, Mao S, Tabb DL and Tyska MJ.				
TITLE	Proteomic analysis of the enterocyte brush border				
JOURNAL	Am J Physiol Gastrointest Liver Physiol 300 (5), G914-G926 (2011)				
PUBMED	21330445				
REFERENCE	5 (bases 1 to 4509)				
AUTHORS	Ose R, Yanagawa T, Ikeda S, Ohara O and Koga H.				
TITLE	PCDH24-induced contact inhibition involves downregulation of beta-catenin signaling				
JOURNAL	Mol Oncol 3 (1), 54-66 (2009)				
PUBMED	19383367				

REMARK GeneRIF: suppression of beta-catenin signaling by PCDH24 leads to contact inhibition

REFERENCE 6 (bases 1 to 4509)

AUTHORS Gonzales PA, Pisitkun T, Hoffert JD, Tchapyjnikov D, Star RA, Kleta R, Wang NS and Knepper MA.

TITLE Large-scale proteomics and phosphoproteomics of urinary exosomes

JOURNAL J Am Soc Nephrol 20 (2), 363-379 (2009)

PUBMED [19056867](#)

REFERENCE 7 (bases 1 to 4509)

AUTHORS Okazaki N, Takahashi N, Kojima S, Masuho Y and Koga H.

TITLE Protocadherin LKC, a new candidate for a tumor suppressor of colon and liver cancers, its association with contact inhibition of cell proliferation

JOURNAL Carcinogenesis 23 (7), 1139-1148 (2002)

PUBMED [12117771](#)

REFERENCE 8 (bases 1 to 4509)

AUTHORS Suzuki ST.

TITLE Recent progress in protocadherin research

JOURNAL Exp Cell Res 261 (1), 13-18 (2000)

PUBMED [11082270](#)

REMARK Review article

COMMENT REVIEWED [REFSEQ](#): This record has been curated by NCBI staff. The reference sequence was derived from [AK315055.1](#), [AB047004.1](#), [AC091934.2](#) and [AK225217.1](#).

On Aug 14, 2020 this sequence version replaced [NM_001171976.1](#).

Summary: This gene is a member of the protocadherin family, which represents a subset of the larger cadherin superfamily. The members of the protocadherin family encode non-classical cadherins that function as calcium-dependent cell-cell adhesion molecules. This protocadherin represents a new candidate for tumor suppression. Alternatively spliced transcript variants that encode the same protein have been identified. [provided by RefSeq, Jan 2010].

Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.

##Evidence-Data-START##

Transcript exon combination :: AK315055.1 [ECO:0000332]
 RNAseq introns :: single sample supports all introns
 SAMEA2152798 [ECO:0000348]

##Evidence-Data-END##

COMPLETENESS: complete on the 3' end.

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	830-1544	AB047004.1	594-1308	
	1545-1545	AC091934.2	85693-85693	c
	1546-1959	AB047004.1	1310-1723	
	1960-1960	AC091934.2	84692-84692	c
	1961-3656	AB047004.1	1725-3420	
	3657-3657	AK225217.1	1610-1610	
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