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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:

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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
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  REMARK     GeneRIF: suppression of beta-catenin signaling by PCDH24 leads to
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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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             464-464             AK315055.1         464-464
             465-828             AB047004.1         229-592
             829-829             AC091934.2         88025-88025         c
             830-1544            AB047004.1         594-1308
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