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Nucleotide

GenBank

Homo sapiens nucleophosmin 1 (NPM1), transcript variant 3, mRNA

NCBI Reference Sequence: NM_001037738.3

FASTA Graphics

Go to:

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LOCUS       NM_001037738            1600 bp    mRNA    linear   PRI 01-JAN-2023
DEFINITION  Homo sapiens nucleophosmin 1 (NPM1), transcript variant 3, mRNA.
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            Mammalia; Eutheria; Euarchontoglires; Primates; Haplorrhini;
            Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 1600)
  AUTHORS   Florio D, La Manna S, Di Natale C, Leone M, Mercurio FA, Napolitano
            F, Malfitano AM and Marasco D.
  TITLE     Insights into Network of Hot Spots of Aggregation in Nucleophosmin
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  JOURNAL   Int J Mol Sci 23 (23), 14704 (2022)
   PUBMED   36499032
  REMARK    GeneRIF: Insights into Network of Hot Spots of Aggregation in
            Nucleophosmin 1.
            Publication Status: Online-Only
REFERENCE   2  (bases 1 to 1600)
  AUTHORS   Yener E, Ozcan K, Ongoren S, Salihoglu A, Demiroz AS and Aki H.
  TITLE     A clinicopathological experience in acute myeloid leukemia: Effects
            of clinical data and status of FLT3, CEBPA and NPM1 on prognosis
  JOURNAL   Indian J Pathol Microbiol 65 (3), 642-648 (2022)
   PUBMED   35900493
  REMARK    GeneRIF: A clinicopathological experience in acute myeloid
            leukemia: Effects of clinical data and status of FLT3, CEBPA and
            NPM1 on prognosis.
REFERENCE   3  (bases 1 to 1600)
  AUTHORS   Guo CA, Su XL, Wang WJ, Xia TH, Cao XM, Yuan SB, Wang WA, Zhang A
            and Liu HB.
  TITLE     NPM1 is a diagnostic and prognostic biomarker associated with the
            clinicopathological characteristics of gastric cancer
  JOURNAL   Neoplasma 69 (4), 965-975 (2022)
   PUBMED   35723196
  REMARK    GeneRIF: NPM1 is a diagnostic and prognostic biomarker associated
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REFERENCE   4  (bases 1 to 1600)
  AUTHORS   Xu SX, Han YW, Guo JL, Bian XK, Hu HM and Lee SC.
  TITLE     The binding between NPM and H2B proteins signals for the
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  JOURNAL   Cell Biochem Funct 40 (5), 516-525 (2022)
   PUBMED   35678289
  REMARK    GeneRIF: The binding between NPM and H2B proteins signals for the
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REFERENCE   5  (bases 1 to 1600)
  AUTHORS   Xia PH, Xu ZJ, Jin Y, Ma JC, Wen XM, Yuan Q, Leng JY, Qian J and
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  TITLE     [Clinical Significance of Low Expression of LncRNA CASC15 in Acute
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  JOURNAL   Zhongguo Shi Yan Xue Ye Xue Za Zhi 30 (3), 659-670 (2022)
   PUBMED   35680788
  REMARK    GeneRIF: [Clinical Significance of Low Expression of LncRNA CASC15
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            in Acute Myeloid Leukemia with NPM1 Mutations].
REFERENCE   6  (bases 1 to 1600)
  AUTHORS   Fankhauser C, Izaurralde E, Adachi Y, Wingfield P and Laemmli UK.
  TITLE     Specific complex of human immunodeficiency virus type 1 rev and
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  JOURNAL   Mol Cell Biol 11 (5), 2567-2575 (1991)
   PUBMED   2017166
REFERENCE   7  (bases 1 to 1600)
  AUTHORS   Venkatesh LK, Mohammed S and Chinnadurai G.
  TITLE     Functional domains of the HIV-1 rev gene required for
            trans-regulation and subcellular localization
  JOURNAL   Virology 176 (1), 39-47 (1990)
   PUBMED   2109912
REFERENCE   8  (bases 1 to 1600)
  AUTHORS   Cochrane AW, Perkins A and Rosen CA.
  TITLE     Identification of sequences important in the nucleolar localization
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            localization to function
  JOURNAL   J Virol 64 (2), 881-885 (1990)
   PUBMED   2404140
REFERENCE   9  (bases 1 to 1600)
  AUTHORS   Zhang XX, Thomis DC and Samuel CE.
  TITLE     Isolation and characterization of a molecular cDNA clone of a human
            mRNA from interferon-treated cells encoding nucleolar protein B23,
            numatrin
  JOURNAL   Biochem Biophys Res Commun 164 (1), 176-184 (1989)
   PUBMED   2478125
REFERENCE   10 (bases 1 to 1600)
  AUTHORS   Chan,P.K., Chan,W.Y., Yung,B.Y., Cook,R.G., Aldrich,M.B., Ku,D.,
            Goldknopf,I.L. and Busch,H.
  TITLE     Amino acid sequence of a specific antigenic peptide of protein B23
  JOURNAL   J Biol Chem 261 (30), 14335-14341 (1986)
   PUBMED   2429957
COMMENT     REVIEWED REFSEQ: This record has been curated by NCBI staff in
            collaboration with Francesco Amaldi. The reference sequence was
            derived from AC091980.4, BC107754.1 and AC093246.3.

            On Jun 2, 2019 this sequence version replaced NM_001037738.2.

            Summary: The protein encoded by this gene is involved in several
            cellular processes, including centrosome duplication, protein
            chaperoning, and cell proliferation. The encoded phosphoprotein
            shuttles between the nucleolus, nucleus, and cytoplasm, chaperoning
            ribosomal proteins and core histones from the nucleus to the
            cytoplasm. This protein is also known to sequester the tumor
            suppressor ARF in the nucleolus, protecting it from degradation
            until it is needed. Mutations in this gene are associated with
            acute myeloid leukemia. Dozens of pseudogenes of this gene have
            been identified. [provided by RefSeq, Aug 2017].

            Transcript Variant: This variant (3) utilizes an alternate
            3'-terminal exon, compared to variant 1, resulting in a shorter
            protein (isoform 3) with a distinct C-terminus.

            Publication Note:  This RefSeq record includes a subset of the
            publications that are available for this gene. Please see the Gene
            record to access additional publications.

            ##Evidence-Data-START##
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                                           SRR5189667.202294.1 [ECO:0000332]
            RNAseq introns              :: single sample supports all introns
                                           SAMEA1965299, SAMEA1966682
                                           [ECO:0000348]
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            COMPLETENESS: full length.
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            4-1202              BC107754.1         5-1203
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     1501 cttgccaata ctgttgtagt ttcttgccta tatccgtaat ttgaaggaaa tggtgagagt
     1561 gattagagaa gtgtaattac tgtaattttt tcccctattg
//
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