PIN1 cDNA Clone – Peptidylprolyl Cis/Trans Isomerase, NIMA-Interacting 1 (Human)

PRODUCT OVERVIEW

Product Name	PIN1, cDNA Clone
Full Product Name	PIN1 cDNA Clone
Product Gene Name	PIN1 cdna clone
Sequence	atggcggacg aggagaagct gccgcccggc tgggagaagc gcatgagccg cagctcaggc cgagtgtact acttcaacca catcactaac gccagccagt gggagcggcc cagcggcaac agcagcagtg gtggcaaaaa cgggcagggg gagcctgcca gggtccgctg ctcgcacctg ctggtgaagc acagccagtc acggcggccc tcgtcctggc ggcaggagaa gatcacccgg accaaggagg aggccctgga gctgatcaac ggctacatcc agaagatcaa gtcgggagag gaggactttg agtctctggc ctcacagttc agcgactgca gctcagccaa ggccagggga gacctgggtg ccttcagcag aggtcagatg cagaagccat ttgaagacgc ctcgtttgcg ctgcggacgg gggagatgag cgggcccgtg ttcacggatt ccggcatcca catcatcctc cgcactgagt ga
Molecular Weight	18,243 Da
OMIM	601052
Vector	pENTR223.1
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for PIN1 cdna clone	MBS1267059 is a cDNA clone targeting PIN1.
Other Notes	Small volumes of PIN1 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PIN1. It may not necessarily be applicable to this product.

NCBI GI #	12804092
NCBI GeneID	5300
NCBI Accession #	BC002899
UniProt Secondary Accession #	Q53X75; A8K4V9
UniProt Related Accession #	Q13526
NCBI Official Full Name	Homo sapiens peptidylprolyl cis/trans isomerase, NIMA-interacting 1, mRNA
NCBI Official Synonym Full Names	peptidylprolyl cis/trans isomerase, NIMA-interacting 1
NCBI Official Symbol	PIN1
NCBI Official Synonym Symbols	DOD; UBL5
UniProt Protein Name	Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1
UniProt Synonym Protein Names	Peptidyl-prolyl cis-trans isomerase Pin1; PPIase Pin1; Rotamase Pin1
Protein Family	Auxin efflux carrier component
UniProt Gene Name	PIN1

UniProt Synonym Gene Names	PPIase Pin1
UniProt Entry Name	PIN1_HUMAN
NCBI Protein Information	peptidyl-prolyl cis-trans isomerase NIMA-interacting 1
NCBI Summary for PIN1	Peptidyl-prolyl cis/trans isomerases (PPIases) catalyze the cis/trans isomerization of peptidyl-prolyl peptide bonds. This gene encodes one of the PPIases, which specifically binds to phosphorylated ser/thr-pro motifs to catalytically regulate the post-phosphorylation conformation of its substrates. The conformational regulation catalyzed by this PPIase has a profound impact on key proteins involved in the regulation of cell growth, genotoxic and other stress responses, the immune response, induction and maintenance of pluripotency, germ cell development, neuronal differentiation, and survival. This enzyme also plays a key role in the pathogenesis of Alzheimer's disease and many cancers. Multiple alternatively spliced transcript variants have been found for this gene.[provided by RefSeq, Jun 2011]
UniProt Comments for PIN1	PIN1: a member of the parvulin family of peptidyl-prolyl isomerases (PPIase), has been implicated in the G2-M transition of the cell cycle. Has two distinct functional domains: an N-terminal WW domain and a C-terminal PPIase domain. Pin1 interacts with a series of mitotic phosphoproteins, including Plk1, cdc25C and cdc27, catalyzing pSer-Pro or pThr/Pro cis/trans isomerizations. Displays a preference for an acidic residue n-terminal to the isomerized proline bond. Protein type: EC 5.2.1.8; Isomerase; Nuclear receptor co-regulator Chromosomal Location of Human Ortholog: 19p13 Cellular Component: cytosol; midbody; nucleoplasm; nucleus Molecular Function: beta-catenin binding; GTPase activating protein binding; mitogen-activated protein kinase kinase binding; motor activity; peptidyl-prolyl cis-trans isomerase activity; phosphoserine binding; phosphothreonine binding; protein binding Biological Process: negative regulation of interferon type I production; negative regulation of protein binding; negative regulation of protein catabolic process; negative regulation of transforming growth factor beta receptor signaling pathway; neuron differentiation; positive regulation of GTPase activity; positive regulation of protein amino acid phosphorylation; positive regulation of transcription from RNA polymerase II promoter; positive regulation of ubiquitin-protein ligase activity; protein peptidyl-prolyl isomerization; protein stabilization; regulation of cytokinesis; regulation of mitosis; synapse organization and biogenesis
Research Articles on PIN1	**1.** Structural Analysis of the Pin1-CPEB1 interaction and its potential role in CPEB1 degradation has been described.
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