PDCD10 cDNA Clone – Programmed Cell Death 10 (Human)

PRODUCT OVERVIEW

Product Name	PDCD10, cDNA Clone
Full Product Name	PDCD10 cDNA Clone
Product Gene Name	PDCD10 cdna clone
Sequence	atgaggatga caatggaaga gatgaagaat gaagctgaga ccacatccat ggtttctatg cccctctatg cagtcatgta tcctgtgttt aatgagctag aacgagtaaa tctgtctgca gcccagacac tgagagccgc tttcatcaag gctgaaaaag aaaatccagg tctcacacaa gacatcatta tgaaaatttt agagaaaaaa agcgtggaag ttaacttcac ggagtccctt cttcgtatgg cagctgatga tgtagaagag tatatgattg aacgaccaga gccagaattc caagacctaa acgaaaaggc acgagcactt aaacaaattc tcagtaagat cccagatgag atcaatgaca gagtgaggtt tctgcagaca atcaaggata tagctagtgc aataaaagaa cttcttgata cagtgaataa tgtcttcaag aaatatcaat accagaaccg cagggcactt gaacaccaaa agaaagaatt tgtaaagtac tccaaaagtt tcagtgatac tctgaaaacg tattttaaag atggcaaggc aataaatgtg ttcgtaagtg ccaaccgact aattcatcaa accaacttaa tacttcagac cttcaaaact gtggcctga
Molecular Weight	24,702 Da
OMIM	603285
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for PDCD10 cdna clone	MBS1268334 is a cDNA clone targeting PDCD10.
Other Notes	Small volumes of PDCD10 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 PDCD10. It may not necessarily be applicable to this product.

NCBI GI #	12803370
NCBI GeneID	11235
NCBI Accession #	BC002506
UniProt Secondary Accession #	O14811; A8K515; D3DNN5
UniProt Related Accession #	Q9BUL8
NCBI Official Full Name	Homo sapiens programmed cell death 10, mRNA
NCBI Official Synonym Full Names	programmed cell death 10
NCBI Official Symbol	PDCD10
NCBI Official Synonym Symbols	CCM3; TFAR15
UniProt Protein Name	Programmed cell death protein 10
UniProt Synonym Protein Names	Cerebral cavernous malformations 3 protein; TF-1 cell apoptosis-related protein 15
Protein Family	Programmed cell death protein
UniProt Gene Name	PDCD10

UniProt Synonym Gene Names	CCM3; TFAR15
UniProt Entry Name	PDC10_HUMAN
NCBI Protein Information	programmed cell death protein 10
NCBI Summary for PDCD10	This gene encodes an evolutionarily conserved protein associated with cell apoptosis. The protein interacts with the serine/threonine protein kinase MST4 to modulate the extracellular signal-regulated kinase (ERK) pathway. It also interacts with and is phosphoryated by serine/threonine kinase 25, and is thought to function in a signaling pathway essential for vascular developent. Mutations in this gene are one cause of cerebral cavernous malformations, which are vascular malformations that cause seizures and cerebral hemorrhages. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Jul 2008]
UniProt Comments for PDCD10	PDCD10: Promotes cell proliferation. Modulates apoptotic pathways. Increases mitogen-activated protein kinase activity and MST4 activity. Important for cell migration, and for normal structure and assembly of the Golgi complex. Important for KDR/VEGFR2 signaling. Increases the stability of KDR/VEGFR2 and prevents its breakdown. Required for normal cardiovascular development. Required for normal angiogenesis, vasculogenesis and hematopoiesis during embryonic development. Defects in PDCD10 are the cause of cerebral cavernous malformations type 3 (CCM3). Cerebral cavernous malformations (CCMs) are congenital vascular anomalies of the central nervous system that can result in hemorrhagic stroke, seizures, recurrent headaches, and focal neurologic deficits. CCMs have an incidence of 0.1%-0.5% in the general population and usually present clinically during the 3rd to 5th decade of life. The lesions are characterized by grossly enlarged blood vessels consisting of a single layer of endothelium and without any intervening neural tissue, ranging in diameter from a few millimeters to several centimeters. Belongs to the PDCD10 family. Protein type: Apoptosis Chromosomal Location of Human Ortholog: 3q26.1 Cellular Component: cytoplasm; cytosol; Golgi apparatus Molecular Function: protein binding; protein homodimerization activity; protein kinase binding; protein N-terminus binding Biological Process: establishment of Golgi localization; negative regulation of apoptosis; positive regulation of cell migration; positive regulation of cell proliferation; positive regulation of MAP kinase activity; positive regulation of Notch signaling pathway; positive regulation of peptidyl-serine phosphorylation; positive regulation of stress-activated MAPK cascade; protein stabilization; regulation of Rho protein signal transduction; response to hydrogen peroxide; stress fiber formation Disease: Cerebral Cavernous Malformations 3
Research Articles on PDCD10	**1.** Studies suggest that the 3 proteins of the Cerebral Cavernous Malformations (CCM) complex KRIT1/CCM1, CCM2/malcavernin and CCM3/PDCD10 not only require one another for reciprocal stabilization, but also act as a platform for signal transduction.
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