

Product datasheet for MR201342

Pin1 (NM_023371) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pin1 (NM_023371) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Pin1
Synonyms: 0610025L01Rik; D9Bwg1161e
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR201342 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCGGACGAGGAGAAGCTGCCACCAGGCTGGGAGAAGCGTATGAGTCGCAGCTCAGGCCGGGTGTA
 ACTTCAATCACATACCAACGCCAGCCAGTGGGAGCGGCCAGCGCGGCAGCACTGTTGGAGGCAGCAG
 CAAGAATGGCCAGGGTGAGCCTGCCAAGGTGCGCTGCTCACATCTGCTGGTGAAGCACAGCCAGTCTCG
 AGGCCCTCATCTGGCGGACGAAAAGATCACCAGGAGCAAGGAGGAGGCCCTGGAGCTCATCAATGGCT
 ATATCCAGAAGATTAAGTCAGGAGAGGAAGACTTTGAATCTCTGGCCTCACAGTTCAGTGATTGCAGCTC
 TGCCAAAGCCAGGGGAGACCTGGGTCCCTTCAGCAGAGGTCAGATGCAGAAACCATTTGAGGATGCGTCG
 TTTGCTCTACGGACAGGGGAGATGAGTGGGCCCGTGTTCAGGACTCGGGCATCCATATCATCTGCGCA
 CAGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201342 protein sequence
 Red=Cloning site Green=Tags(s)

MADEEKLPPEWKEKMSRSGRVYFNHITNASQWERPSGGSTVGGSSKNGQGEPAKVRCSHLLVKHSQSR
 RPSSWRQEKITRSKEEALELINGYIQKIKSGEEDFESLASQFSDCSSAKARGDLGPF SRGQM QKPFEDAS
 FALRTGEMSGPVFTDSGIHILRTE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

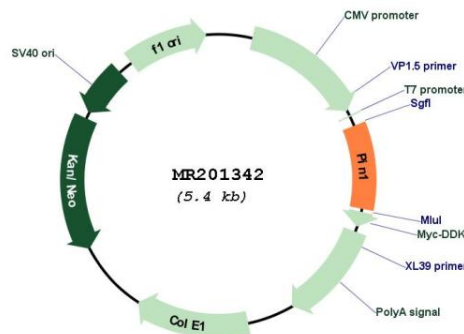


MW: 18.4 kDa

Gene Summary:

Peptidyl-prolyl cis/trans isomerase (PPIase) that binds to and isomerizes specific phosphorylated Ser/Thr-Pro (pSer/Thr-Pro) motifs. By inducing conformational changes in a subset of phosphorylated proteins, acts as a molecular switch in multiple cellular processes. Displays a preference for an acidic residue N-terminal to the isomerized proline bond. Regulates mitosis presumably by interacting with NIMA and attenuating its mitosis-promoting activity. Down-regulates kinase activity of BTK. Can transactivate multiple oncogenes and induce centrosome amplification, chromosome instability and cell transformation. Required for the efficient dephosphorylation and recycling of RAF1 after mitogen activation (By similarity). Binds and targets PML and BCL6 for degradation in a phosphorylation-dependent manner (PubMed:17828269). Acts as a regulator of JNK cascade by binding to phosphorylated FBXW7, disrupting FBXW7 dimerization and promoting FBXW7 autoubiquitination and degradation: degradation of FBXW7 leads to subsequent stabilization of JUN (By similarity). May facilitate the ubiquitination and proteasomal degradation of RBBP8/CtIP through CUL3/KLHL15 E3 ubiquitin-protein ligase complex, hence favors DNA double-strand repair through error-prone non-homologous end joining (NHEJ) over error-free, RBBP8-mediated homologous recombination (HR) (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR201342