

## Product datasheet for **MC204855**

### Pin1 (NM\_023371) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pin1 (NM\_023371) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Pin1  
**Synonyms:** 0610025L01Rik; D9Bwg1161e  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC038254  
 CCACGCGTCCGGGAAGATGGCGGACGAGGAGAAGCTGCCACCAGGCTGGGAGAAGCGTATGAGTCGCAG  
 CTCAGGCCGGGTGTACTACTTCAATCACATCACCAACGCCAGCCAGTGGGAGCGGCCAGCGGGCGCAGC  
 ACTGTTGGAGGCAGCAGCAAGAATGGCCAGGGTGAGCCTGCCAAGGTGCGCTGCTCACATCTGCTGGTGA  
 AGCACAGCCAGTCTCGGAGGCCCTCATCCTGGCGGACAGAAAAGATCACCAAGGAGCAAGGAGGAGGCCCT  
 GGAGCTCATCAATGGCTATATCCAGAAGATTAAGTCAGGAGAGGAAGACTTTGAATCTCTGGCCTCACAG  
 TTCAGTGATTGCAGCTCTGCCAAGCCAGGGGAGACCTGGGTCCCTTCAGCAGAGGTCAGATGCAGAAAC  
 CATTGAGGATGCGTCGTTTGTCTACGGACAGGGGAGATGAGTGGGCCCGTGTTCACGGACTCGGGCAT  
 CCATATCATCCTGCGCACAGAATGAGGGCAGGCACCTGGCCAGCCTGCTCTGGCTGCCACACAGCCCAGG  
 GATGCCCTTCTGCTACTGTACACAGTATTTATTGTTCTAAAATGACTGGGAGGGCTCTGAGCATCC  
 CGTCCCTGTTTCCCCCTATTCGGGGCTGTCTAGCCAGGCTCCTTCTGGAGGAATTGACTTCAGAAAGG  
 CAGTGGGGATGGGAGGCCCCAGGCTCAGGGGTGAGAGGTGACCTGATCCCCAGGTCTCAGAGGCAG  
 GCAGGAGGGCCTTCTTTCTGTTAGTTATATGCTCCATTGTTCTCTGTTTCAAGTTGCAAAAAGCAGACG  
 CTCCATACCTGGCGGTGACGCAACTCAGCCTCAGGGTGCAGTGCAGCACCTACGCACCTCCATTAAT  
 CTGGAACCACTAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_023371

**Insert Size:** 498 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">BC038254</a> , <a href="#">AAH38254</a>
<b>RefSeq Size:</b>	936 bp
<b>RefSeq ORF:</b>	498 bp
<b>Locus ID:</b>	23988
<b>UniProt ID:</b>	<a href="#">Q9QUR7</a>
<b>Cytogenetics:</b>	9 7.6 cM
<b>Gene Summary:</b>	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]