

## Product datasheet for SC110969

### PAR4 (PAWR) (NM\_002583) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PAR4 (PAWR) (NM_002583) Human Untagged Clone
Tag:	Tag Free
Symbol:	PAR4
Synonyms:	Par-4; PAR4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110969 sequence for NM_002583 edited (data generated by NextGen Sequencing)

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ATGGCGACCGGTGGCTACCGGACCAGCAGCGGCCTCGGCGGCAGCACCACAGACTTCCTG
GAGGAGTGGAAGGCGAAACGCGAGAAGATGCGCGCCAAGCAGAACCCCCGGGCCCGGCC
CCCCCGGAGGGGCGAGCAGCGACGCGCTGGGAAGCCCCCGCGGGGGCTCTGGGCACC
CCGGCGGCGCCGCTGCCAACGAGCTCAACAACAACCTCCCGGGCGGCGCCGCGCCGCA
CCTGCCGTCCCCGGTCCCGGGGCGTGAAGTGCAGCGTCCGCCATGCTGACGCGG
GCGGCCCCCGGCCGCGGCGTGGAGGACGAGCCCCAGCCGCTCTGCCTCGGCTGCA
CCGCCGCCAGCGTGACGAGGAGGAGCCGACGGCGTCCAGAGAAGGGCAAGAGCTCG
GGCCCCAGTGCCAGGAAAGCAAGGGGCGATCGAGAAGAGGAAGCTGCGGGAGAAGCGG
CGCTCCACCGGCGTGGTCAACATCCCTGCCGAGAGTGCTTAGATGAGTACGAAGATGAT
GAAGCAGGGCAGAAAGAGCGGAAACGAGAAGATGCAATTACACAACAGAACTATACAG
AATGAAGCTGTAACCTACTAGATCCAGGCAGTTCCTATCTGCTACAGGAGCCACCTAGA
ACAGTTTCAGGCAGATATAAAGCACAACCAAGTGTCTCTGAAGAAGATGTCTCAAGTAGA
TATTCTCGAACAGATAGAAGTGGGTTCCCTAGATATAACAGGGATGCAAAATGTTTCAGGT
ACTCTGGTTTCAAGTAGCAGCTGGAAAAGAAAATTGAAGATCTTGAAAAGGAAGTAGTA
AGAGAAAAGACAAGAAAACCTAAGACTTGTGAGACTGATGCAAGATAAAGAGGAAATGATT
GGAAAACCTCAAAGAAGAAATTGATTTATTAATAGAGACCTAGATGACATAGAAGATGAA
AATGAACAGCTAAAGCAGGAAAATAAACTCTTTTGAAGTTGTGGGTCAGCTGACCAGG
TAG

```

Clone variation with respect to NM\_002583.2  
597 t=>a



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_002583 unedited  
 TCCCGCCCCGTTGCCGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGA  
 GCTTATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCGAAT  
 TCGGCACGAGGGAGAACTTTGCAGGGTGGGGACCCGGCGGTGCTGGCCGGTAGTGACT  
 GGTGGGCGCGCTCGAGGACTCCAAGGGGCGCAGCCGGGGCAGACCCTTGGGTCGGGCG  
 GGGATCTTACGCTTCCCTTACCCGCCCTTTTGTCTTTCACCTCAGCCCCGCGGCTGC  
 TGTGGGAGCGGCGCGTCCCTCTCCTGGAGGTGCTCCTGGCATCCTCGGGGCCGAG  
 GAAGGAAGAGGAGGACGCGGCCGAGCCCTGGTGGGCGGCTGAGGTGAGAGCCCGACC  
 GCCCTTTGGGAATATGGCGACCGGTGGCTACCGACCAGCAGCGGCCTCGGCGGACGA  
 CCACAGACTTCTGGAGGAGTGAAGGCGAAACGCGAGAAGATGCGCGCCAAGCAGAACC  
 CCCCAGGCGCCGCCCCCGGGAGGGGCGAGCAGCAGCGCGCTGGGAAGCCCCCGCGG  
 NGGCTCTGGGCACCCGCGGCCGNCGCTGCCAACGAGCTCAACACAACCTCCCGGCGG  
 CGCGCCGCGCCACCTGCCGTCCCGTCCCGGGGCGTGACTGCGNCGTGCCTCCGCCA  
 TGCTGACGCGGGCGGCCCGGCCGNCNGCTTCGAGACGAACCCACCNGCTCTGCCT  
 CGGNTGCACCGCCGCCANCGTGACAAAGGAGAACCCGGACGCGTCCANAAAGGGCAGA  
 GCTCGGCCCCAGTGCCAGAANGCAAGGCCANATCGAGAAAAGAACCTGCCGGAGACCG  
 GCTCACCGGCGGTCACATCCTGCCGAAN

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_002583 unedited  
 NNCCGGTATATTATGGACCGCGCCGATTCTANGATCGAGTTTTTTTTTTTTTTTTTTTT  
 TTTCTAAATAATAATATTTAATAGAAAAAAATCTGTATAATTTAGAAAGTAAGTCTG  
 TTTTAAAATTTCAATGTTAGGAAGAAAATCCCTTAAATTTGAAATAGCGGAATATTCTC  
 TCATATGAAAAACTGTGTCCAGTGTTATTCTTCAACTAGAAAATTAGGCAAAGTATTT  
 TAGTACTATTTCTGCTTACATATTGTTTTGTATGAATGTTTTAAGTATGAATAATTTTT  
 GGTTTTTAGTGTGCATGCTAATATAAAAAATATGGATTTTTTCTCTACACTGACTTTGT  
 ACACTTTCCAGGCCCGAAGAATAAAAACTTTTAAAAATATCCTGTGTTCACTAGCAAACC  
 TTGGAACGATAAAAAAGGTAGTACCTACATAAGAAAATTTTACATTGAAATTACAATTGT  
 ATGTTTTTCAGGAGTTAAAGTGATTCAATTTTTCAATATTTCAAACACAAAATAGTAAAT  
 TTTATTTACTATAGCACAATTCAGTATTCTCTTAAATTTATATTTAGTCAACTAAAACA  
 TGACAGTGACTTTATAAGAGCTTTCCTTTTAAAAGTTGCTGTTATAAAAAAGTATGACT  
 CTATTACTTAAATGCTTAGAATAAGTGGAAAGAACAATGACAGTAGACAAAAACCTTT  
 ATGAGTGAGTCATCAACACATAAAAGTTGCACACCTCAGTAATAGGACATGTGAAGGTA  
 ACATCCCAAAAGTATTTGAACTCATGTAACAAAAGACTATGGTATTTCTAGGGAGAAAA  
 TGTNCTTCCAGATAAAATATATTTCAACGGCTGTGACTTTTAAACCATGTATTAGTTGGA  
 TACCCN

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_002583

**Insert Size:**

1750 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).

**Components:**

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).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

**RefSeq:** [NM\\_002583.2](#), [NP\\_002574.2](#)

**RefSeq Size:** 1967 bp

**RefSeq ORF:** 1023 bp

**Locus ID:** 5074

**UniProt ID:** [Q96IZ0](#)

**Cytogenetics:** 12q21.2

**Protein Families:** Druggable Genome, Transcription Factors

**Gene Summary:** This gene encodes a tumor suppressor protein that selectively induces apoptosis in cancer cells through intracellular and extracellular mechanisms. The intracellular mechanism involves the inhibition of pro-survival pathways and the activation of Fas-mediated apoptosis, while the extracellular mechanism involves the binding of a secreted form of this protein to glucose regulated protein 78 (GRP78) on the cell surface, which leads to activation of the extrinsic apoptotic pathway. This gene is located on the unstable human chromosomal 12q21 region and is often deleted or mutated different tumors. The encoded protein also plays an important role in the progression of age-related diseases. [provided by RefSeq, Aug 2017]