

Product datasheet for **SC320836**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_002583 edited
 TGGGAGCGGCGGCGCTCCCTCTCCTGGAGGTCGTCTCCTGGCATCCTCGGGGCCGAGGA
 AGGAAGAGGAGGCAGCGGCCGAGCCCTGGTGGGCGGCCTGAGGTGAGAGCCCGACCGGC
 CCCTTTGGGAATATGGCGACCGGTGGCTACCGGACCAGCAGCGGCCTCGGCGGCAGCACC
 ACAGACTTCTGGAGGAGTGAAGGCGAAACGCGAGAAGATGCGCGCCAAGCAGAACCCC
 CCGGGCCCGGCCCCCGGGAGGGGGCAGCAGCGACGCCGCTGGGAAGCCCCCGCGGGG
 GCTCTGGGCACCCCGGCGCCGCTGCCAACGAGCTCAACAACAACCTCCCGGGCGGC
 GCGCCGGCCGCACCTGCCGTCCCGGTCCCGGGGCGTGAACGCGCGGTCCGGTCCGCC
 ATGCTGACGCGGGCGGCCCGGCCGCGGCGGTGCGAGGACGAGCCCCAGCCGCTCT
 GCCTCGGCTGCACCGCCGCCAGCGTGACGAGGAGGAGCCGGACGGCGTCCAGAGAAG
 GGCAAGAGCTCGGGCCCCAGTGCCAGGAAAGGCAAGGGGCAGATCGAGAAGAGGAAGCTG
 CGGGAGAAGCGCGCTCCACCGCGTGGTCAACATCCCTGCCGAGAGTCTTAGATGAG
 TACGAAGATGATGAAGCAGGGCAGAAAGAGCGGAAACGAGAAGATGCAATTACACAACAG
 AACACTATACAGAATGAAGCTGTAACCTACTAGATCCAGGCAGTTCCTATCTGTACAG
 GAGCCACCTAGAACAGTTTCAGGCAGATATAAAGCACAACCAGTGTCTCTGAAGAAGAT
 GTCTCAAGTAGATATTCTCGAACAGATAGAAGTGGTTCCCTAGATATAACAGGGATGCA
 AATGTTTCAGGTAAGTCTGTTTCAAGTAGCACACTGGAAGAAAGAAATGAAGATCTTGAA
 AAGGAAGTAGTAAGAGAAAGACAAGAAACCTAAGACTTGTGAGACTGATGCAAGATAAA
 GAGGAAATGATTGGAAGAACTCAAAGAAGAAATGATTTATTAATAGAGACCTAGATGAC
 ATAGAAGATGAAATGAACAGCTAAAGCAGGAAATAAACTCTTTTGAAGTTGTGGGT
 CAGCTGACCAGGTAGAGGATTCAAGACTCAATGTGGAATAATTTTAACTACTGATT
 GAATGTTAATGGTCAATGCTAGCACAATATTCCTATGCTGCAATACATTAATAACTAA
 GCAAGTATATTTATTTCTAGCAAACAGATGTTTGTTCAAAATACTTCTTTTTCATTAT
 TGGTTTTAAAAAAGCATTATCCTTTTATCTCACAATAAGTAATATCTTTCAGTTATTAA
 ATGATAGATAATGCCTTTTGGTTTTGTGGTATTCAACTAATACATGGTTTAAAGTCA
 CAGCCGTTGAATATATTTATCTTGGTAGTACATTTTCTCCCTTAGGAATATACATAGT
 CTTTGTTTTACATGAGTTCAAATACTTTTGGGATGTTACCTTCACATGCCTATTACTGA
 TGTGTGCAACCTTTTATGTGTTGATGACTCACTCATAAAGGTTTTTGTCTACTGTCATTT
 GTTCTTTCCACTTATTCTAAGCATTTAGAGTAATAGAGTCATACTTTTTTATAACAGCAA
 CCTTTTAAAGGAAAGCTCTTATAAAGTCACTGTCATGTTTTAGTTGACTAAATATAAT
 TTAAGAGAATACTTGAATTGTGCTATAGTAAATAAAAAATTTACTATTTTGTGTTGATAA
 AAAAAAAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_002583
- Insert Size:** 1800 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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]