

## Product datasheet for **RG202733**

### PAR4 (PAWR) (NM\_002583) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PAR4 (PAWR) (NM_002583) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PAR4
Synonyms:	Par-4; PAR4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202733 representing NM_002583 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGACCGGTGGTACCGGACCAGCAGCGGCCCTCGGCGGCAGCACCACAGACTTCTGGAGGAGTGGA  
AGGCGAAACGCGAGAAGATGCGCGCCAAGCAGAACCCCCGGGCCCGGCCCGGGAGGGGGCAGCAG  
CGACGCCGCTGGGAAGCCCCCGGGGGCTCTGGGCACCCCGCGGCCCGCTGCCAACGAGCTCAAC  
AACAACTCCCGGGCGCGCCCGGCCGCACCTGCCGTCCCCGGTCCCGGGGCGTGAATGCGCGGTGCG  
GCTCCGCCATGCTGACGCGGGCGGCCCGGCCCGCGCGGTCCGAGGACGAGCCCCAGCCGCTCTGC  
CTCGGCTGCACCGCCGCCAGCGTGACGAGGAGGAGCCGGACGGCGTCCAGAGAAGGGCAAGAGCTCG  
GGCCCCAGTGCCAGGAAAGGCAAGGGGCAGATCGAGAAGAGGAAGCTGCGGGAGAAGCGCGCTCCACCG  
GCGTGGTCAACATCCCTGCCGAGAGTGCTTAGATGAGTACGAAGATGATGAAGCAGGGCAGAAAGAGCG  
GAAACGAGAAGATGCAATTACACAACAGAACACTATTCAGAAATGAAGCTGTAAACTTACTAGATCCAGGC  
AGTTCTATCTGCTACAGGAGCCACCTAGAACAGTTTCAGGCAGATATAAAAGCACAAACAGTGTCTCTG  
AAGAAGATGTCTCAAGTAGATATTCTCGAACAGATAGAAGTGGTTCCCTAGATATAACAGGGATGCAAA  
TGTTTCAGGTAAGTCAAGTAGCAGCACTGGAAAAGAAAATTGAAGATCTTGAAAAGGAAGTAGTA  
AGAGAAAAGACAAGAAAACCTAAGACTTGTGAGACTGATGCAAGATAAAGAGGAAATGATTGAAAACCTCA  
AAGAAGAAATGATTTTAAATAGAGACCTAGATGACATAGAAGATGAAAATGAACAGCTAAAGCAGGA  
AAATAAACTCTTTTGAAGTTGTGGTCACTGACCAGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG202733 representing NM\_002583  
Red=Cloning site Green=Tags(s)

MATGGYRTSSGLGGSTTDFLEEWKAKREKMRKQNPFGPAPPGGGSSDAAGKPPAGALGTPAAAAANELN  
 NNLPGGAPAAPAVPGPGVNCVGSAMLTRAAPGPRRSEDEPPAASASAAPPQRDEEEDPGVPEKGKSS  
 GPSARKGKGQIEKRKLREKRRSTGVVNIPTAAECLDEYEDDEAGQKERKREDAITQQNTIQNEAVNLLDPG  
 SSYLLQEPPTVSGRYKSTTSVSEEDVSSRYRSDRSRSGFPFRYNRDANVSGTLVSSSTLEKKIEDLEKEVV  
 RERQENLRVLMDKEEMIGLKEEIDLLNRDLDDIEDENEQLKQENKTLKLVVGLTR

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_002583

**ORF Size:** 1020 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_002583.4](#)

**RefSeq Size:** 1967 bp

**RefSeq ORF:** 1023 bp

**Locus ID:** 5074

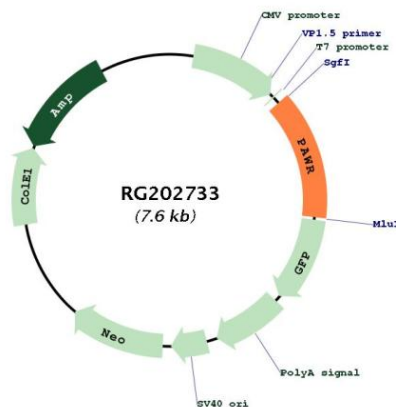
**UniProt ID:** [Q96I20](#)

**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 in different tumors. The encoded protein also plays an important role in the progression of age-related diseases. [provided by RefSeq, Aug 2017]

## Product images:



Circular map for RG202733