

Product datasheet for **RC208530**

PARG (NM_003631) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PARG (NM_003631) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PARG
Synonyms:	PARG99
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC208530 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATGCGGGCCCCGGCTGTGAACCTGCACCAAGCAGCCCGCTGGGGCGCCGCTACAACCTCGCCGG
 CTGCTTCGGACGCCCGGAGCTTTCCAGCAGGCAGAGGCCGCTCCTCGACCCCAAGGACGCTCACGTGCA
 GTTCAGGGTCCCACCGTCTCGCCAGCCTCGCTCCAGGGCGGGCGGACAGCACAGAGGACGCGCCACC
 TCGCTTGTTCACAAACAAAAGACTATTACCAGTTGGATGGACACTAAAGGAATCAAGACAGCGGAATCAG
 AAAGTTTGGATAGTAAAGAAAACAACAACAAGAATAGAATCCATGATGAGTTCTGTACAAAAGATAA
 CTTTTACCAACATAATGTAGAAAAATTAGAAAATGTTTCTCAGCTAAGTCTTGATAAGTCACCCACTGAA
 AAAAGTACACAGTATTTGAACCAGCATCAGACTGCAGCAATGTGAAGTGGCAAATGAAGGAAACACA
 CGGAGCAGCTTTTGAAAGTGAACCTCAAACAGTAACCCTGGTACCAGAGCAGTTTAGTAATGCTAACAT
 TGATCGGTACCTCAAAATGATGATCACAGTGACACAGATAGTGAAGAGAATAGAGACAATCAACAGTTT
 CTCACAACGTAAAGCTTGCAAAATGCAAAGCAGACTACAGAAGATGAACAGGCCAGAGAAGCCAAAAGCC
 ACCAGAAGTGCAGCAAGTCTTGGCATCTGGGGAAGACTGTGCAAGTTGTGAGCAAGATGAGATAGATGT
 GGTGCCAGAGAGTCCATTGTGAGATGTTGGCTCTGAGGATGTTGGTACTGGGCCAAAAATGACAACAAA
 TTGACTAGACAAGAAAGTTGCTAGGAAATTCCTCCATTTGAGAAGGAAAGTGAACCCGAGTCACCGA
 TGGATGTGGATAATTCTAAAAATAGTTGTCAAGACTCAGAAGCAGATGAGGAGACAAGTCCAGGTTTTGA
 TGAACAAGAAGATGGTAGTTCTCCCAACAGCAAATAAACCTCAAGGTTCCAAGCAAGAGACGCTGAC
 ATTTGAATTTAGGAAACGGTACTCTACTAAGGGCGGTGAAGTTAGATTACATTTCCAATTTGAAGGAGGAG
 AGACTCGCACTGGAATGAATGATTTAAATGCTAAACTACCTGGAATATTTCTAGCCTGAATGTAGAAATG
 CAGAAAATCTAAGCAACATGGAAAAAAGGATTTAAAATCACAGATCATTTCATGAGACTGCCCAAAGCA
 GAGGACAGAAGAAAAGAACAGTGGGAAACCAAACATCAAAGAACAGAAAGGAAGATCCCTAAATACGTTT
 CACCTCACCTTTCTCAGATAAGAAGTGGCTTGGAACTCCATTGAGGAGATGAGAAGAATGCCTCGGTG
 TGGGATCCGGCTGCCTCTCTTGAGACCATCGCCAATCACACAGTAACTATTCGGGTAGATCTTTTGCGA
 GCAGGAGAAGTTCCTAACCTTTTCCAACACATTATAAAGATTTGTGGGATAACAAGCATGTTAAAAATGC
 CTTGTTCAGAACAAAATTTGATCCAGTGAAGATGAGAATGGTGAAGCAACTGCGGGGAGCCGGTGGGA
 GCTCATTGAGACTGCACTTCTCAACAAAATTTACACGACCCAAAACCTTGAAGGATGCTATTCTGAAATAC
 AATGTGGCATATTCTAAGAAATGGGACTTTACAGCTTTGATCGATTTCTGGGATAAGGACTTGAAGAAG
 CAGAAGCTCAACATTTATATCAGTCCATCTTGCTGATATGGTGAATAATGCACTGTCTGCCAATAT
 TTGACCCAGCCAATACCACTCCTGAAACAGAAGATGAATCATTCCATCACAATGTCGCAGGAACAGATT
 GCCAGTCTTTTAGCTAATGCTTTCTTCTGCACATTTCCACGACGAAATGCTAAGATGAAATCGGAGTATT
 CTAGTTACCCAGACATTAACCTTCAATCGATTGTTTGGGGACGTTTCAAGGAAACCGGAGAACTTAA
 AACGCTCTTCTGCTACTTTAGAAGAGTACAGAGAAAAAACCTACTGGGTTGGTGACATTTACAAGACAG
 AGTCTTGAAGATTTCCAGAATGGGAAAGATGTGAAAAACCTTGACACGATTGCATGCACTTACGAAG
 GTACCATAGAAGAAAATGGCCAAGGCATGCTACAGGTGGATTTTGCAATCGTTTTGTTGGAGGTGGTGT
 AACCAAGTGCAGGACTTGTGCAAGAAGAAATCCGCTTTTTAATCAATCCTGAGTTGATTATTTACGGCTC
 TTCCTGAGGTGCTGGATCACAAATGAATGTCTAATTATCACAGGACTGAGCAGTACAGTGAATACACAG
 GCTATGCTGAGACATATCGTTGGTCCCAGGACCCGAAAGATGGGAGTGAAGGGGACGACTGGCAGCGGCG
 CTGCACTGAGATCGTTGCCATCGATGCTTCACTTACAGCAGTACCTCGATCAGTTTGTGCTGAGAAA
 ATGAGACGCGAGCTGAACAAGGCTTACTGTGGATTTCTCCGCTCGGAGTTTCTCAGAGAATCTTTCTG
 CAGTGGCCACAGGAACTGGGGCTGTGGTGCCTTTGGGGTGATGCCAGGTTAAAAGCCTTAATACAGAT
 ATTGGCAGCTGCTGCAGCTGAGCGAGATGTGGTTATTTACCTTTGGGGACTCAGAATTGATGAGAGAC
 ATTTACAGCATGCACATTTCTTACTGAAAGGAACTCACTGTTGGAGATGTGTATAAGCTGTTGCTAC
 GATACTACAATGAAGAATGCAGAACTGTTCCACCCTGGACCAGACATCAAGCTTTATCCATTCATATA
 CCATGCTGTCGAGTCTGTGCAGAGACCGCTGACCATTACAGGCAAAGGACAGGGACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC208530 protein sequence
 Red=Cloning site Green=Tags(s)

MNAGPGCEPCTKRPRWGAATTSPAASDARSFSPSRQRRVLDPKDAHVQFRVPPSSPACVPRAGQHRGSAT
 SLVFKQKTIITSWMDTKGIKTAESESLDSKENNNTRIESMMSSVQKDNFYQHNVKLENVSQLSLDKSPTE
 KSTQYLNQHQTAAMCKWQNEGKHTEQLLESEPQTVTLVPEQFSNANIDRSPQNDHSDTDSEENRDNQQF
 LTTVKLANAKQTTEDEQAREAKSHQKCSKSCDPGEDCASCQQDEIDVVPESPLSDVGSSEDVGTGPKNDNK
 LTRQESCLGNSPPFEKESEPESPMDVDNSKNSCQDSEADEETSPGFDEQEDGSSSQTANKPSRFQARDAD
 IEFKRKRYSTKGGEVRLHFQFEGGESRTGMNDLNAKLPNGISSLNVECRNSKQHGGKDSKITDHFMRPKA
 EDRRKEQWETKHQRTERKIPKYVPHLSPDKKWLGTPIEMRRMRCGIRLPLLSPSANHTVIRVDLLR
 AGEVPPKPFPHYKDLWDNKHVKMPCSEQLYPVEDENGERTAGSRWELIQTALLNKFRPQNLKDAILKY
 NVAYSKKWDFALIDFWDKVL EEAQAHL YQSILPDMVKIALCLPNICTQPIPLLKQKMNHSITMSQEIQI
 ASLLANAFCTFPRRNAKMKSEYSSYPDINFNRLFEGRSSRKPELKTLCYFRRVTEKKPTGLVTFTRQ
 SLEDFPEWERCEKPLTRLHVTYEGTIEENGQMLQVDFANRFVGGVTSAGLVQEEIRFLINPELIIISRL
 FTEVLDHNECLIIITGTEQYSEYTYAETRWRSRSHEDGSRDDWQRRCTEIVAIDALHFRRLDQFVPEK
 MRRELNKAYCGFLRPGVSSENLSAVATGNWCGCAFGGDARLKALIQILAAAAAERDVVYFTFGDSELMRD
 IYSMHIFLTERKLTVDVYKLLLRYYNEECRNCSTPGPDIKLYPFYHVESCAETADHSGQRTGT

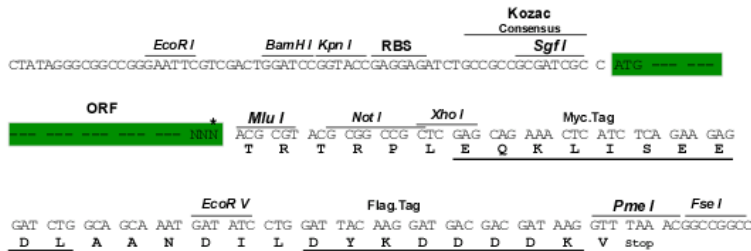
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6293_g07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



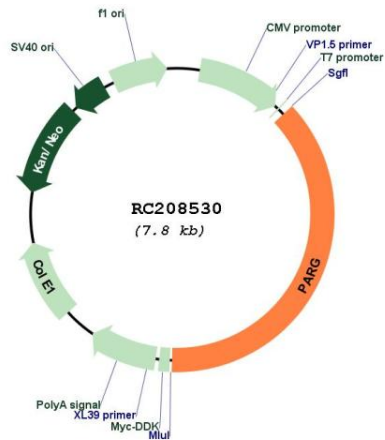
* The last codon before the Stop codon of the ORF

ACCN: NM_003631

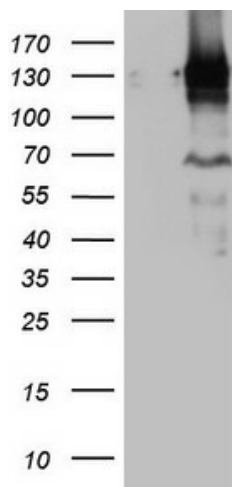
ORF Size: 2928 bp

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:	<ol style="list-style-type: none">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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_003631.5
RefSeq Size:	4276 bp
RefSeq ORF:	2931 bp
Locus ID:	8505
UniProt ID:	Q86W56
Cytogenetics:	10q11.23
Domains:	PARG
MW:	111.1 kDa
Gene Summary:	Poly(ADP-ribose) glycohydrolase (PARG) is the major enzyme responsible for the catabolism of poly(ADP-ribose), a reversible covalent-modifier of chromosomal proteins. The protein is found in many tissues and may be subject to proteolysis generating smaller, active products. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2015]

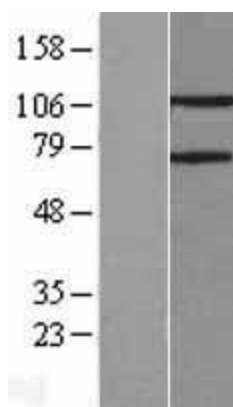
Product images:



Circular map for RC208530



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PARG (Cat# RC208530, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PARG (Cat# [TA808614])(1:2000). Positive lysates [LY418533] (100ug) and [LC418533] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY418533]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208530 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).