OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG220444

PARP4 (NM_006437) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PARP4 (NM_006437) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PARP4
Synonyms:	ADPRTL1; ARTD4; p193; PARP-4; PARPL; PH5P; VAULT3; VPARP; VWA5C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG220444 representing NM_006437
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGATGGGAATCTTTGCAAATTGTATCTTCTGTTTGAAAGTGAAGTACTTACCTCAGCAGCAGAAGA
AAAAGCTACAAACTGACATTAAGGAAAATGGCGGAAAGTTTTCCTTTTCGTTAAATCCTCAGTGCACACA
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ATTGCAAACCCAGATTTTATATGGAAATCTATCAGGGAAAAGAGACTCTTGGATGTAAAGAATTATGATC
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CCGGGAGAGACAGATGGCACCAGACTCCTGCTCATTTGTGACGTAGCCCTCGGAAAGTGTATGGACTTAC
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TGGGACTCCAGCCCATAAGCACTGTGTCCCCTCTTCATAGAGTCCTCCATTACAGTCAAGGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG220444 representing NM_006437
Red=Cloning site Green=Tags(s)

MVMGIFANCIFCLKVKYLPQQQKKKLQTDIKENGGKFSFSLNPQCTHIILDNADVLSQYQLNSIQKNHVH
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ASEYFENYIEELKKQGFLLREHFTPEATQLASEQLQALLLEEVMNSSTLSQEVSDLVEMIWAEALGHLEH
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FSGSSLSSAQSAPLQHPGGFTTRPSAGTFPELDSPQLHFSLPTDPDPIRGFGSYHPSAYSPFHFQPSAAS
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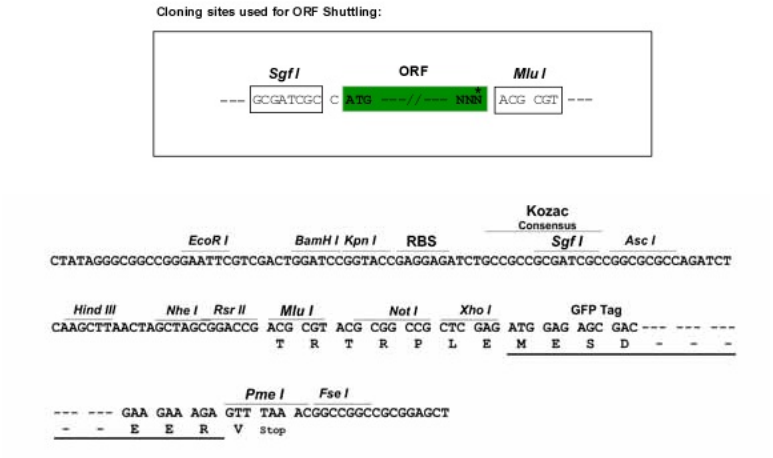
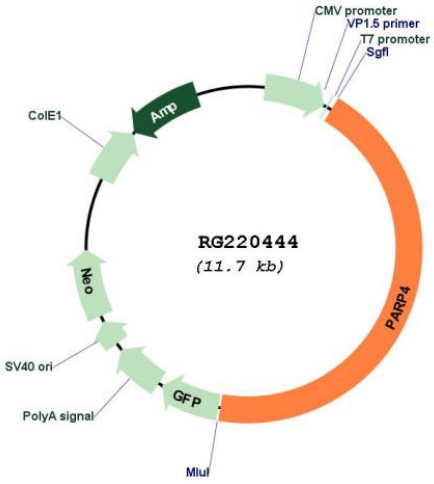
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_006437

ORF Size: 5172 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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_006437.2, NP_006428.1
RefSeq Size:	5468 bp
RefSeq ORF:	5175 bp
Locus ID:	143
UniProt ID:	Q9UKK3
Cytogenetics:	13q12.12
Domains:	PARP, BRCT, VWA, VIT
Protein Families:	Druggable Genome
Protein Pathways:	Base excision repair

Gene Summary: This gene encodes poly(ADP-ribosyl)transferase-like 1 protein, which is capable of catalyzing a poly(ADP-ribosyl)ation reaction. This protein has a catalytic domain which is homologous to that of poly (ADP-ribosyl) transferase, but lacks an N-terminal DNA binding domain which activates the C-terminal catalytic domain of poly (ADP-ribosyl) transferase. Since this protein is not capable of binding DNA directly, its transferase activity may be activated by other factors such as protein-protein interaction mediated by the extensive carboxyl terminus. [provided by RefSeq, Jul 2008]