

Product datasheet for **RG220356**

C12orf48 (PARPBP) (NM_017915) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C12orf48 (PARPBP) (NM_017915) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PARPBP
Synonyms:	AROM; C12orf48; PARI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG220356 representing NM_017915
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACGTGACTGACCATTATGAGGACGTTAGGAAGATTTATGATGATTTCTGAAGAACAGTAATATGT
 TAGATCTGATTGATGTTTATCAAAAATGTAGGGCTTTGACTTCTAATTGTGAAAATTATAACACAGTATC
 TCCTAGTCAACTACTGGATTTTCTGCTGGCAAACAGTATGCAGTAGGTGATGAACTGATCTTTCTATA
 CCAACATCAACAAGTAAATACAACCGTGATAATGAAAAGGTGCAGCTGCTAGCAAGGAAAATTATCT
 TTTCATATTTAAATCTGCTAGTGAATCAAGAATGACCTGGCTGTGGCTTATATTCTCAATATTCCTGA
 TAGAGGACTAGGAAGAGAAGCCTTCACTGATTTGAAACATGCTGCTCGAGAGAAACAAATGTCTATCTTT
 TTGGTGGCCAGTCTTTTATTAGAACAATAGAGCTTGGAGGAAAGGATATGCACCACCACATCAGATC
 CTTTAAGGACACATGTAAGGGATTGTCTAATTTTATTAATTTTCATTGACAAATTAGATGAGATTCTTGG
 AGAAATACCAACCAAGCATTGACAGGGGTCAAATACTGTCAGTGATAAAGATGCAACTGATTAAGGC
 CAAAACAGCAGGGATCCTTTTTCGAAAGCAATAGAGGAAGTTGCTCAGGATTTGGATTTGAGGATTA
 ATATTATCAATTCTCAAGAAGGTGTTGTAGCTCTTAGCACCCTGACATCAGTCTGCTCGGCCAAAATC
 TCATGCCATAAACCATGGTACTGCATACTGTGGCAGAGATACTGTGAAAGCCTTATTAGTTCTTTTGGAC
 GAAGAAGCAGCTAATGCTCCTACCAAAAACAAAGCAGAGCTTTTATATGATGAGGAAGACACAATCCATC
 ATCATGGAACGCTATTCTTACACTTTTGGTCTCCACACAGGTGAATAATTTGATAAAACCCCTAAG
 AGAACGCATCTGTGTCAATGCAAGAGAAAAAATTAAAGATGAAGCAAATTTAATTAGATCCCAATTT
 GCTTGTACTTATAAAGATGACTACATGATAAGCAAGGATAAATGGAATAATGTTAATTTAGCATCAAAGC
 CTTTGTGTGTTTACATGAAAAATGACCTTTCTGAGGGTGTAATCCATCTGTTGGAAGATCAACAAT
 TGGAACGAGTTTTGGAAATGTTTCATCTGGACAGAAAGTAAAAATGAAAAAGTATCAAGAAAAATCAACCA
 CAGACAGGAAATAAAAGCTCAAAAAGGAAACAGGTGGATTTGGATGGTAAAAATATTCTCTGTGATAATA
 GAAATGAACCACCTCAACATAAAAATGCTAAAATACCTAAGAAATCAAATGATTCACAGAATAGATTGTA
 CGGCAACTAGCTAAAGTAGCAAAAAGTAAATAATGACTGCCAAGGACAAGTTGATTTCTGGCCAGGCA
 AAGTTAACTCAGTTTTTTAGACTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG220356 representing NM_017915
 Red=Cloning site Green=Tags(s)

MDVTDHYEDVRKIYDDFLKNSNMLDLIDVYQKCRALTSNCENYNTVSPSQLLDFLSGKQYAVGDETDLSI
 PTSPTSKYNRDNEKVQLLARKIIFSYLNLLVNSKNDLAVAYILNIPDRGLGREAFDCLKHAAREKQMSIF
 LVATSFIRTIELGGKGYAPPSDPLRTHVKGLSNFINFIDKLDEILGEIPNPSIAGGQILSVIKMQLIKG
 QNSRDPFCKAIEEVAQDLDLRIKNIINSQEGVVALSTTDISPARPKSHAINHGTAAYCGRDVTKALLVLLD
 EEAANAPTKNKAELLYEEDTIHHHGSILTLFRSPTQVNNLIKPLRERICVSMQEKKIKMKQTLIRSQF
 ACTYKDDYMIKDNWNNVNLASKPLCVLYMENDLSEGVNPSVGRSTIGTSFGNVHLDRSKNEKVSRSKSTS
 QTGNKSSKRKQVDLDGENILCDNRNEPPQHKNKIPKKSNDSQNRLYGKLAKVAKSNKCTAKDKLISGQA
 KLTQFFRL

TRTRPLE - GFP Tag - V

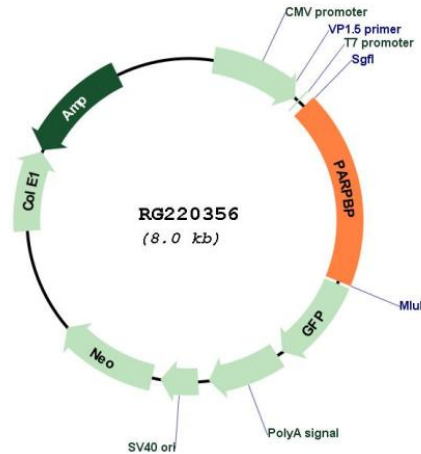
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_017915

ORF Size: 1494 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.
RefSeq:	NM_017915.1 , NP_060385.1
RefSeq Size:	2175 bp
RefSeq ORF:	1740 bp
Locus ID:	55010
UniProt ID:	Q9NWS1
Cytogenetics:	12q23.2
Protein Families:	Druggable Genome
Gene Summary:	Required to suppress inappropriate homologous recombination, thereby playing a central role DNA repair and in the maintenance of genomic stability. Antagonizes homologous recombination by interfering with the formation of the RAD51-DNA homologous recombination structure. Binds single-strand DNA and poly(A) homopolymers. Positively regulate the poly(ADP-ribosyl)ation activity of PARP1; however such function may be indirect. [UniProtKB/Swiss-Prot Function]