

Product datasheet for **RC230055**

p53R2 (RRM2B) (NM_001172477) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	p53R2 (RRM2B) (NM_001172477) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	p53R2
Synonyms:	MTDPS8A; MTDPS8B; P53R2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC230055 representing NM_001172477
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTGCTGTTGGCTCTTCCCCCTACCGCAGTACGCCAGCCCGTTAGATTGCAAGTTGCAGGACCGCT
 GTAGGAAATGTTATTCGCCGCGGTGAGGACAGGCCTGTCCGCCCGCCCTCGCCGACGCTGGCTTCGTGC
 TTGCGAGCGCCGGGAGGCCGTCGCCGGGAGGCGGAGGAAGGAGCTGACTTTGGGTTTGCCTCCCGCT
 CGCTGCTCTGCCCGGGGCCAGCCAAGGACGACGCTTGGAGGCCTCAGGCCGGGAGATCATCTTCAGACA
 CCAACGAAAGTAAATAAGTCAAATGAAGAGCCACTCCTAAGAAAGAGTTCTCGCCGTTTGTCTCTT
 TCCAATCCAGTACCCTGATATTTGGAAATGTATAAACAGGCACAGGCTTCTTCTGGACAGCAGAAGAG
 GTCGACTTATCAAAGGATCTCCCTCACTGGAACAAGCTTAAAGCAGATGAGAAGTACTTCATCTCTCACA
 TCTTAGCCTTTTTGCAGCCAGTGATGGAATTGTAATGAAAATTTGGTGGAGCGCTTTAGTCAGGAGGT
 GCAGGTTCCAGAGGCTCGCTGTTTCTATGGCTTCAAATTCATCGAGAATGTTCACTCAGAGATGTAC
 AGTTTGCTGATAGACACTTACATCAGAGATCCCAAGAAAAGGGAATTTTTATTTAATGCAATTGAAACCA
 TGCCCTATGTTAAGAAAAAGCAGATTGGGCCTTGCATGGATAGCAGATAGAAAATCTACTTTTGGGGA
 AAGAGTGGTGGCCTTTGCTGCTGTAGAAGGAGTTTTCTTCTCAGGATCTTTTGTGCTATATTCTGGCTA
 AAGAAGAGAGGTCTTATGCCAGGACTCACTTTTCCAATGAACTCATCAGCAGAGATGAAGGACTTCACT
 GTGACTTTGCTTGCTGATGTTCCAATACTTAGTAAATAAGCCTTCAGAAGAAAGGTCAGGAGATCAT
 TGTTGATGCTGTCAAATGAGCAGGAGTTTTAACAGAAGCCTTGCCAGTTGGCCTCATTGGAATGAAT
 TGCATTTTGTGAAACAGTACATTGAGTTGTAGCTGACAGATTACTTGTGGAACCTGGATTCTCAAAGG
 TTTTTCAGGCAGAAAATCCTTTTGATTTTATGGAAAACATTTCTTTAGAAGGAAAAACAAATTTCTTTGA
 GAAACGAGTTTTCAGAGTATCAGCGTTTTGCAGTTATGGCAGAAACCACAGATAACGCTCTTACCTTGAT
 GCAGATTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC230055 representing NM_001172477
 Red=Cloning site Green=Tags(s)

MLLLRLPPHRSHASPLDCKLQDRCRKCYSPRSQACPPALAAWLRRCERRGGRPRGRRKELTLGLRPA
 RCSAPGPAKDDAWRPQAGRSSSDTNESEIKSNEEPLLRKSSRFVIFPIQYDPIWKMYKQAQASFWTAAE
 VDL SKDLPHWNKLKADEKYFISHILAFFAASDGI VNNLVERFSQEVQVPEARCFYGFQIL IENVHSEMY
 SLLIDTYIRDPKKREFLFNAIETMPYVKKKADWALRWIADRKSTFGERVVAFVAVEGVFFSGSFAAIFWL
 KKRGLMPGLTFSNELISRDEGLHCDFACLMFQYLVNKPSEERVREIIVDAVKIEQEFLTEALPVGLIGMN
 CILMKQYIEFVADRLLVELGFSKVFQAENPFDFMENISLEGKTNFFEKR VSEYQRFVMAETTDNVFTLD
 ADF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8007_c11.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_001172477

ORF Size: 1269 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_001172477.1](#), [NP_001165948.1](#)

RefSeq ORF: 1272 bp

Locus ID: 50484

UniProt ID: [Q7LG56](#)

Cytogenetics: 8q22.3

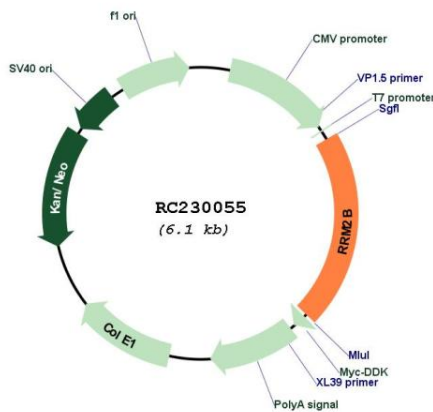
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Glutathione metabolism, Metabolic pathways, p53 signaling pathway, Purine metabolism, Pyrimidine metabolism

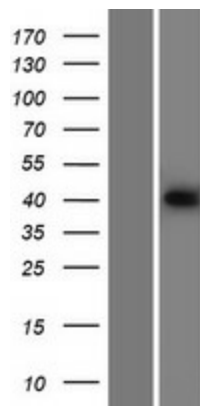
MW: 49.2 kDa

Gene Summary: This gene encodes the small subunit of a p53-inducible ribonucleotide reductase. This heterotetrameric enzyme catalyzes the conversion of ribonucleoside diphosphates to deoxyribonucleoside diphosphates. The product of this reaction is necessary for DNA synthesis. Mutations in this gene have been associated with autosomal recessive mitochondrial DNA depletion syndrome, autosomal dominant progressive external ophthalmoplegia-5, and mitochondrial neurogastrointestinal encephalopathy. Alternatively spliced transcript variants have been described.[provided by RefSeq, Feb 2010]

Product images:



Circular map for RC230055



Western blot validation of overexpression lysate (Cat# [LY433055]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC230055 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).