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Product datasheet for RC210340

p53R2 (RRM2B) (NM_015713) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	p53R2 (RRM2B) (NM_015713) 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)

ORF Nucleotide Sequence:

>RC210340 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCGACCCGGAAAGGCCGGAAGCGGCCGGGCTGGATCAGGATGAGAGATCATCTTCAGACACCAACG
AAAGTGAAATAAAGTCAAATGAAGAGCCACTCCTAAGAAAGAGTTCTCGCCGGTTTGTCATCTTTCCAAT
CCAGTACCCTGATATTTGGAAAATGTATAAACAGGCACAGGCTTCCTTCTGGACAGCAGAAGAGGTCGAC
TTATCAAAGGATCTCCCTCACTGGAACAAGCTTAAAGCAGATGAGAAGTACTTCATCTCTCACATCTTAG
CCTTTTTTGCAGCCAGTGATGGAATTGTAAATGAAAATTTGGTGGAGCGCTTTAGTCAGGAGGTGCAGGT
TCCAGAGGCTCGCTGTTTCTATGGCTTTCAAATTCTCATCGAGAATGTTCACTCAGAGATGTACAGTTTG
CTGATAGACACTTACATCAGAGATCCCAAGAAAAGGGAATTTTTATTTAATGCAATTGAAACCATGCCCT
ATGTTAAGAAAAAAGCAGATTGGGCCTTGCGATGGATAGCAGATAGAAAATCTACTTTTGGGGAAAGAGT
GGTGGCCTTTGCTGCTGTAGAAGGAGTTTTCTTCTCAGGATCTTTTGCTGCTATATTCTGGCTAAAGAAG
AGAGGTCTTATGCCAGGACTCACTTTTTCCAATGAACTCATCAGCAGAGATGAAGGACTTCACTGTGACT
TTGCTTGCCTGATGTTCCAATACTTAGTAAATAAGCCTTCAGAAGAAAGGGTCAGGGAGATCATTGTTGA
TGCTGTCAAAATTGAGCAGGAGTTTTTAACAGAAGCCTTGCCAGTTGGCCTCATTGGAATGAATTGCATT
TTGATGAAACAGTACATTGAGTTTGTAGCTGACAGATTACTTGTGGAACTTGGATTCTCAAAGGTTTTTC
AGGCAGAAAATCCTTTTGATTTTATGGAAAACATTTCTTTAGAAGGAAAAACAAATTTCTTTGAGAAACG
AGTTTCAGAGTATCAGCGTTTTGCAGTTATGGCAGAAACCACAGATAACGTCTTCACCTTGGATGCAGAT
TTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC210340 protein sequence
Red=Cloning site Green=Tags(s)

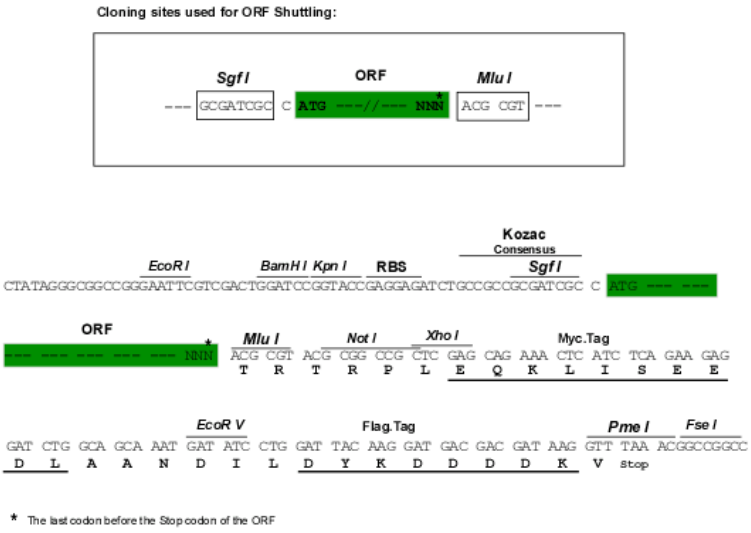
MGDPERPEAAGLDQDERSSSDTNESEIKSNEEPLLRKSSRRFVIFPIQYPDIWKMYKQAQASFWTAEEVD
LSKDLPHWNKLKADEKYFISHILAFFAASDGIVNENLVERFSQEVQVPEARCFYGFQILIENVHSEMYSL
LIDTYIRDPKKREFLFNAIETMPYVKKKADWALRWIADRKSTFGERVVAFAAVEGVFFSGSFAAIFWLKK
RGLMPGLTFSNELISRDEGLHCDFACLMFQYLVNKPSEERVREIIVDAVKIEQEFLTEALPVGLIGMNCI
LMKQYIEFVADRLLVELGFSKVFQAENPFDFMENISLEGKTNFFEKRVSEYQRFAVMAETTDNVFTLDAD
F

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6768_b07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015713

ORF Size: 1053 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).

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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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_015713.5
RefSeq Size:	4932 bp
RefSeq ORF:	1056 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:	40.7 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]

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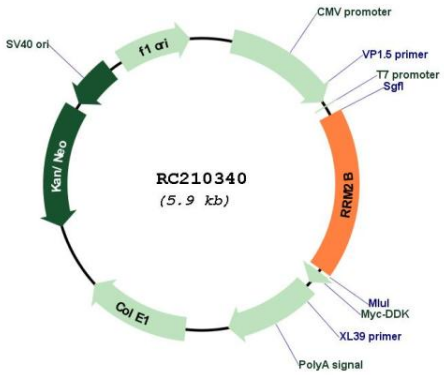
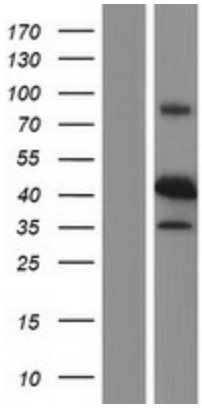
Product images:



Circular map for RC210340



Western blot validation of overexpression lysate (Cat# [LY414401]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210340 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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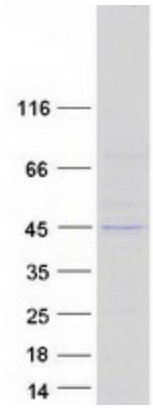

Coomassie blue staining of purified RRM2B protein (Cat# [TP310340]). The protein was produced from HEK293T cells transfected with RRM2B cDNA clone (Cat# RC210340) using MegaTran 2.0 (Cat# [TT210002]).

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