

Product datasheet for **RG229848**

p53R2 (RRM2B) (NM_001172478) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: p53R2 (RRM2B) (NM_001172478) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: RRM2B
Synonyms: MTDPS8A; MTDPS8B; P53R2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG229848 representing NM_001172478
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGGCGACCCGAAAGGCCGGAAGCGGCCGGCTGGATCAGGATGAGGTCGACTTATCAAAGGATCTCC
CTCACTGGAACAAGCTTAAAGCAGATGAGAAGTACTTCATCTCTCACATCTTAGCCTTTTTGCAGCCAG
TGATGGAATTGAAATGAAAATTTGGTGGAGCGCTTTAGTCAGGAGGTGCAGGTTCCAGAGGCTCGCTGT
TTCTATGGCTTTCAAATTCATCGAGAATGTTCACTCAGAGATGTACAGTTTGCTGATAGACACTTACA
TCAGAGATCCCAAGAAAAGGGAATTTTTATTTAATGCAATTGAAACCATGCCCTATGTTAAGAAAAAGC
AGATTGGCCTTTCGATGGATAGCAGATAGAAAATCTACTTTTGGGAAAGAGTGGTGGCCTTTGCTGCT
GTAGAAGGAGTTTTCTTCTCAGGATCTTTGCTGCTATATTCTGGCTAAAGAAGAGAGGTCTTATGCCAG
GACTCACTTTTTCCAATGAACTCATCAGCAGAGATGAAGGACTTCACTGTGACTTTGCTTGCCCTGATGTT
CCAATACTTAGTAAATAAGCCTTCAGAAGAAAGGGTCAGGGAGATCATTGTTGATGCTGTCAAATTGAG
CAGGAGTTTTAACAGAAGCCTTGCCAGTTGGCCTCATTGGAATGAATTGCATTTTATGAAACAGTACA
TTGAGTTTGTAGCTGACAGATTACTTGTGGAACCTGGATTCTCAAAGTTTTTCAGGCAGAAAATCCTTT
TGATTTTATGAAAACATTTCTTTAGAAGGAAAAACAAATTTCTTTGAGAAACGAGTTTCAGAGTATCAG
CGTTTTGCAGTTATGGCAGAAACCACAGATAACGTCCTTACCTTGGATGCAGATTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG229848 representing NM_001172478
Red=Cloning site Green=Tags(s)

MGDPERPEAAGLDQDEVLDL SKDLPHWNKLKADEKYFISHILAFFAASDGI VNNLVERFSQEVQVPEARC
 FYGFQIL IENVHSEMYSLLIDTYIRDPKKREFLFNAIETMPYVKKKADWALRWIADRKSTFGERVVAFAA
 VEGVFFSGSFAAIFWLKKRGLMPGLTFSNELISRDEGLHCDFACLMFQYLVNKPSEERVREIIVDAVKIE
 QEFLTEALPVGLIGMNCILMKQYIEFVADRLLVELGFSKVFQAENPFDFMENISLEGKTNFFEKRVSEYQ
 RFAVMAETTDNVFTLDADF

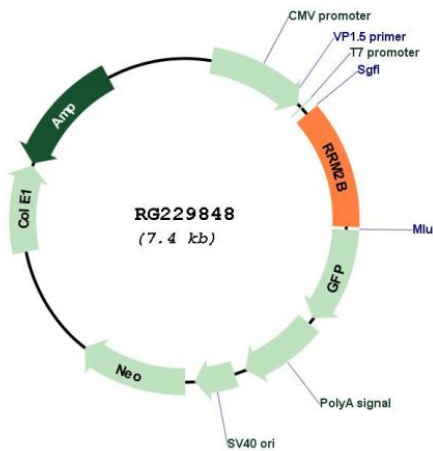
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001172478

ORF Size: 897 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_001172478.2
RefSeq Size:	4776 bp
RefSeq ORF:	900 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
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]