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# Product datasheet for RG210314

## PRKRIR (THAP12) (NM_004705) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | PRKRIR (THAP12) (NM_004705) Human Tagged ORF Clone |
| **Tag:** | TurboGFP |
| **Symbol:** | PRKRIR |
| **Synonyms:** | DAP4; P52rIPK; PRKRIR; THAP0 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-AC-GFP (PS100010) |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

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**ORF Nucleotide Sequence:**

>RG210314 representing NM_004705
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGAACTTCTGCGCTGCCCCCAACTGCACGCGGAAGAGCACGCAGTCCGACTTGGCCTTCTTCAGGT
TCCCGCGGGACCCTGCCAGATGCCAGAAGTGGGTGGAGAACTGTAGGAGAGCAGACTTAGAAGATAAAAC
ACCTGATCAGCTAAATAAACATTATCGATTATGTGCCAAACATTTTGAGACCTCTATGATCTGTAGAACT
AGTCCTTATAGGACAGTTCTTCGAGATAATGCAATACCAACAATATTTGATCTTACCAGTCATTTGAACA
ACCCACATAGTAGACACAGAAAACGAATAAAAGAACTGAGTGAAGATAAAATCAGGACACTGAAGCAGAA
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AGCAGAGGCAGATGCTAGAGATCTGTGAGAGCTGTATTCGAGAAGAAACTCTCAGGGAAGTGAGAGACTC
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CCAGGCTTACATTGTCTCTAGTGGATTTTCTTCCAGAATGAAAGTTGTTGCTTCTAGACTTTTAGAGAAA
TATCCCCAAGCTATCTACACACTCTGCTCTTCCTGTGCCTTAAATATGTGGTTGGCAAAATCAGTACCTG
TTATGGGAGTATCTGTTGCATTAGGAACAATTGAGGAAGTTTGTTCTTTTTTCCATCGATCACCACAACT
GCTTTTAGAACTTGACAACGTAATTTCTGTTCTTTTTCAGAACAGTAAAGAAAGGGGTAAAGAACTGAAG
GAAATCTGCCATTCTCAGTGGACAGGCAGGCATGATGCTTTTGAAATTTTAGTGGAACTCCTGCAAGCAC
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TCTTTTACAAGAGCCTTTGGGAAAAACCTCCAGGGGCAAACCTCTGATGTCTTCTTTGCGGCCGGTAGCT
TGACTGCAGTACTGCATTCACTCAACGAAGTGATGGAAAATATTGAAGTTTATCATGAATTTTGGTTTGA
GGAAGCCACAAATTTGGCAACCAAACTTGATATTCAAATGAAACTCCCTGGGAAATTCCGCAGAGCTCAC
CAGGGTAACTTGGAATCTCAGCTAACCTCTGAGAGTTACTATAAAGAAACCCTAAGTGTCCCAACAGTGG
AGCACATTATTCAGGAACTTAAAGATATATTCTCAGAACAGCACCTCAAAGCTCTTAAATGCTTATCTCT
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GACTTACCCAATCCTGACACGCTGTCAGCTGAGCTTCATTGTTGGAGAATCAAATGGAAACACAGGGGGA
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CGAAAGCGTCTTAAAGCATATTTGAGGAACACTTTGACAGACCAAAGGTCAAGTAACTTGGCTTTGCTTA
ACATAAATTTTGATATAAAACACGACCTGGATTTAATGGTGGACACATATATTAAACTCTATACAAGTAA
GTCAGAGCTTCCTACAGATAATTCCGAAACTGTGGAAAATACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

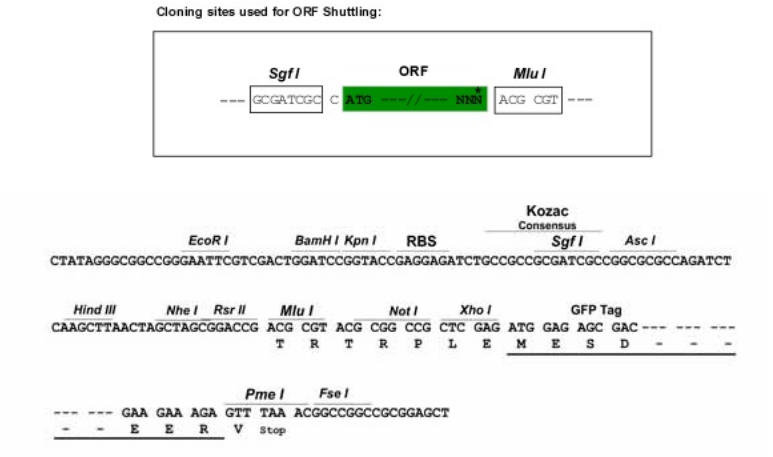
>RG210314 representing NM_004705
Red=Cloning site Green=Tags(s)

MPNFCAAPNCTRKSTQSDLAFFRFPRDPARCQKWVENCRRADLEDKTPDQLNKHYRLCAKHFETSMICRT
SPYRTVLRDNAIPTIFDLTSHLNNPHSRHRKRIKELSEDKIRTLKQKKIDETSEQEQKHKETNNSNAQNP
SEEEGEGQDEDILPLTLEEKENKEYLKSLFEILILMGKQNIPLDGHEADEIPEGLFTPDNFQALLECRIN
SGEEVLRKRFETTAVNTLFCSKTQQRQMLEICESCIREETLREVRDSHFFSIITDDVVDIAGEEHLPVLV
RFVDESHNLREEFIGFLPYEADAEILAVKFHTMITEKWGLNMEYCRGQAYIVSSGFSSRMKVVASRLLEK
YPQAIYTLCSSCALNMWLAKSVPVMGVSVALGTIEEVCSFFHRSPQLLLELDNVISVLFQNSKERGKELK
EICHSQWTGRHDAFEILVELLQALVLCLDGINSDTNIRWNNYIAGRAFVLCSAVSDFDFIVTVVVLKNVL
SFTRAFGKNLQGQTSDVFFAAGSLTAVLHSLNEVMENIEVYHEFWFEEATNLATKLDIQMKLPGKFRRAH
QGNLESQLTSESYYKETLSVPTVEHIIQELKDIFSEQHLKALKCLSLVPSVMGQLKFNTSEEHHADMYRS
DLPNPDTLSAELHCWRIKWKHRGKDIELPSTIYEALHLPDIKFFPNVYALLKVLCILPVMKVENERYENG
RKRLKAYLRNTLTDQRSSNLALLNINFDIKHDLDLMVDTYIKLYTSKSELPTDNSETVENT

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**ACCN:** NM_004705

**ORF Size:** 2283 bp

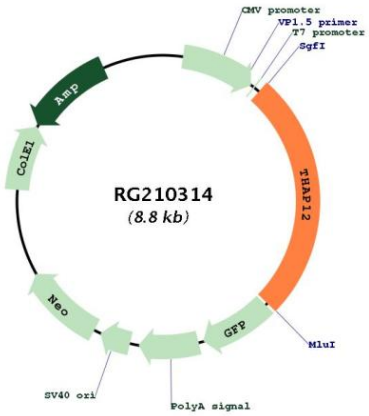
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_004705.2, NP_004696.2 |
| **RefSeq Size:** | 3202 bp |
| **RefSeq ORF:** | 2286 bp |
| **Locus ID:** | 5612 |
| **UniProt ID:** | O43422 |
| **Cytogenetics:** | 11q13.5 |
| **Domains:** | DM3 |
| **Protein Families:** | Druggable Genome |
| **Gene Summary:** | Upstream regulator of interferon-induced serine/threonine protein kinase R (PKR). May block the PKR-inhibitory function of DNAJC3, resulting in restoration of kinase activity and suppression of cell growth.[UniProtKB/Swiss-Prot Function] |

## Product images:




Circular map for RG210314