

Product datasheet for **RG233809**

hHR23b (RAD23B) (NM_001244724) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: hHR23b (RAD23B) (NM_001244724) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: hHR23b
Synonyms: HHR23B; HR23B; P58
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG233809 representing NM_001244724
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTGACCAAAACCAAGCAGTGTCCACACCAGCACCAGCTACAACCTCAGCAGTCAGCTCCTGCCAGCA
 CTACAGCAGTTACTTCCTCCACCACCACAACCTGTGGCTCAGGCTCCAACCCCTGTCCCTGCCTTGGCCCC
 CACTTCCACACCTGCATCCATCACTCCAGCATCAGCGACAGCATCTTCTGAACCTGCACCTGCTAGTGCA
 GCTAAACAAGAGAAGCCTGCAGAAAAGCCAGCAGAGACACCAGTGGCTACTAGCCCAACAGCAACTGACA
 GTACATCGGGTGATTCTTCTCGGTCAAACCTTTTTGAAGATGCAACGAGTGCACCTGTGACGGGTCAGTC
 TTACGAGAATATGGTAACTGAGATCATGTCAATGGGCTATGAACGAGAGCAAGTAATTGCAGCCCTGAGA
 GCCAGTTTCAACAACCCCTGACAGAGCAGTGGAGTATCTTTAATGGGAATCCCTGGAGATAGAGAAAGTC
 AGGCTGTGGTTGACCCCTCAAGCAGCTAGTACTGGGGCTCCTCAGTCTTCAGCAGTGGCTGCAGCTGC
 AGCAACTACGACAGCAACAACCTACAACAACAAGTTCTGGAGGACATCCCCTTGAATTTTACGGAATCAG
 CCTCAGTTTCAACAGATGAGACAATTATTCAGCAGAATCCTTCTTGCCTCCAGCGTTACTACAGCAGA
 TAGGTCGAGAGAATCCTCAATTACTTCAGCAAATTAGCCAACACCAGGAGCATTTTATTCAGATGTTAAA
 TGAACCAAGTCAAGAAGCTGGTGGTCAAGGAGGAGGAGTGGAGTGGCAGTGGAGGAATTGCAGAAGCT
 GGAAGTGGTCATATGAACTACATTCAAGTAACACCTCAGGAAAAAGAAAGCTATAGAAAGTTAAAGGCAT
 TAGGATTTCTGAAGGACTTGTGATACAAGCGTATTTTGTGTTGTGAGAAGAATGAGAATTTGGCTGCCAA
 TTTTCTTCTACAGCAGAACTTTGATGAAGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG233809 representing NM_001244724
 Red=Cloning site Green=Tags(s)

MVTKPKAVSTPAPATTQQSAPASTTAVTSSTTTTVAQAPTPVPALAPTSTPASITPASATASSEPAPASA
 AKQEKPAPKPAETPVATSPTATDSTSGDSSRSNLFEDATSALVTGQSYENMVTEIMSMGYEREQVIAALR
 ASFNNPDRAVEYLLMGIPGDRESQAVVDPQAASTGAPQSSAVAAAAATTTATTTTTSSGGHPLEFLRNQ
 PQFQQMRQIIQQNPSSLPLALLQQIGRENPLLQIQISQHQEHIQMLNEPVQEAGGQGGGGGGGGIAEA
 GSGHMNYIQVTPQEKEAIERLKLALGFPEGLVIQAYFACEKNENLAANFLLQQNFDED

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001244724

ORF Size: 1011 bp

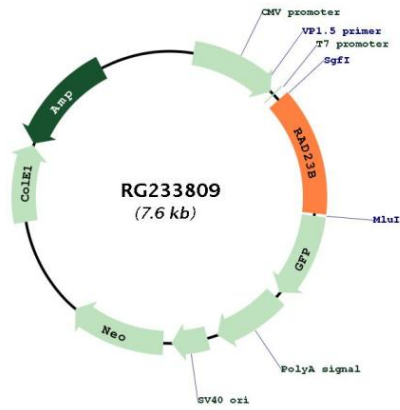
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_001244724.1 , NP_001231653.1
RefSeq Size:	3842 bp
RefSeq ORF:	1014 bp
Locus ID:	5887
UniProt ID:	P54727
Cytogenetics:	9q31.2
Protein Families:	Druggable Genome
Protein Pathways:	Nucleotide excision repair
Gene Summary:	<p>The protein encoded by this gene is one of two human homologs of <i>Saccharomyces cerevisiae</i> Rad23, a protein involved in the nucleotide excision repair (NER). This protein was found to be a component of the protein complex that specifically complements the NER defect of xeroderma pigmentosum group C (XP-c) cell extracts in vitro. This protein was also shown to interact with, and elevate the nucleotide excision activity of 3-methyladenine-DNA glycosylase (MPG), which suggested a role in DNA damage recognition in base excision repair. This protein contains an N-terminal ubiquitin-like domain, which was reported to interact with 26S proteasome, and thus this protein may be involved in the ubiquitin mediated proteolytic pathway in cells. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Sep 2011]</p>

Product images:



Circular map for RG233809