

Product datasheet for **RG202185**

hHR23b (RAD23B) (NM_002874) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	hHR23b (RAD23B) (NM_002874) 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:	>RG202185 representing NM_002874 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAAGTCAACCCTGAAGACCCTCCAGCAGCAGACCTTCAAGATAGACATTGACCCCGAGGAGACGGTGA
AAGCACTGAAAGAGAAGATTGAATCTGAAAAGGGGAAAGATGCCTTCCAGTAGCAGGTCAAAAATTAAT
TTATGCAGGCAAAATCCTCAATGATGATACTGCTCTCAAAGAATATAAAATTTGATGAGAAAACTTTGTG
GTGGTTATGGTGACCAAACCCAAAGCAGTGTCCACACCAGCACCAGCTACAACCTCAGCAGTCAGCTCCTG
CCAGCACTACAGCAGTTACTTCTCCACCACCACAACCTGTGGCTCAGGCTCCAACCCTGTCCCTGCCTT
GGCCCCACTTCCACACCTGCATCCATCACTCCAGCATCAGCGACAGCATCTTCTGAACCTGCACCTGCT
AGTGCAGCTAAACAAGAGAAGCCTGCAGAAAAGCCAGCAGAGACACCAGTGGCTACTAGCCCAACAGCAA
CTGACAGTACATCGGGTATTCTTCTCGGTCAAACCTTTTTGAAGATGCAACGAGTGCACCTGTGACGGG
TCAGTCTTACGAGAATATGGTAAGTGAATCATGTCAATGGGCTATGAACGAGAGCAAGTAAATGCAGCC
CTGAGAGCCAGTTTCAACAACCTGACAGAGCAGTGGAGTATCTTTAATGGGAATCCCTGGAGATAGAG
AAAGTCAGGCTGTGGTTGACCCCTCAAGCAGTAGTACTGGGTTCTCAGTCTTCCAGCAGTGGCTGC
AGCTGCAGCAACTACGACAGCAACAACATAACAACAAGTCTGGAGGACATCCCCTTGAATTTTTACGG
AATCAGCCTCAGTTTCAACAGATGAGACAAATTTTTCAGCAGAATCCTTCTTCCAGCGTTACTAC
AGCAGATAGTTCGAGAGAATCCTCAATTACTTTCAGCAAATTAGCCAACACCAGGACATTTTATTAGAT
GTTAAATGAACAGTTCAAGAAGCTGGTGGTCAAGGAGGAGGAGTGGAGGTGGCAGTGGAGGAATTGCA
GAAGCTGGAAGTGGTCATATGAACACATTCAAGTAAACACCTCAGGAAAAAGAAGCTATAGAAAAGTTAA
AGGCATTAGGATTTCTGAAGGACTTGTGATACAAGCGTATTTTCTTGTGAGAAGAATGAGAATTTGGC
TGCCAATTTCTTCTACAGCAGAACTTTGATGAAGAT

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202185 representing NM_002874
 Red=Cloning site Green=Tags(s)

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MQVTLKTLQQQTFKIDIDPEETVKALKEKIESEKGDAPFPVAGQKLIYAGKILNDDTALKEYKIDEKNFV
VVMVTKPKAVSTPAPATTQOSAPASTTAVTSSTTTTVAQPTPVPALAPTSTPASITPASATASSEPPAPA
SAAKQEKPAEKPAETPVATSPTATDSTSGDSSRSNLFEDATSALVTGQSYENMVTEIMSMGYEREQVIAA
LRASFNNPDRAVEYLLMGIPGDRESQAVVDPPQAASTGVPOSSAVAAAAATTTATTTTTSSGGHPLEFLR
NQPFQQMRQIIQQNPSSLPLALLQQIGRENPLLQQISQHQEHFIQMLNEPVQEAGGQGGGGGGGGIA
EAGSGHMNYIQVTPQEKEAIERLKALGFPEGLVIQAYFACEKNENLAANFLLQQNFDED
  
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002874

ORF Size: 1227 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_002874.3](#), [NP_002865.1](#)

RefSeq Size: 4130 bp

RefSeq ORF: 1230 bp

Locus ID: 5887

UniProt ID: [P54727](#)

Cytogenetics: 9q31.2

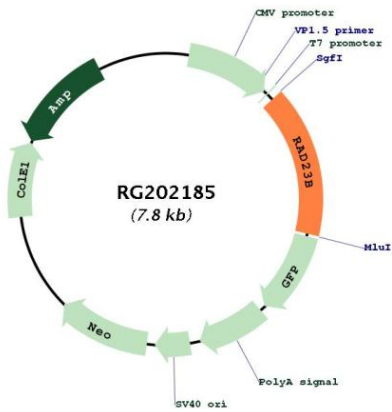
Domains: UBA, UBQ, STI1

Protein Families: Druggable Genome

Protein Pathways: Nucleotide excision repair

Gene Summary: The protein encoded by this gene is one of two human homologs of *Saccharomyces cerevisiae* 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]

Product images:



Circular map for RG202185