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Product datasheet for SC332088

hHR23b (RAD23B) (NM_001244724) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: hHR23b (RAD23B) (NM_001244724) Human Untagged Clone

Tag: Tag Free

Symbol: hHR23b

Synonyms: HHR23B; HR23B; P58

Vector: pCMV6-Entry (PS100001)

Fully Sequenced ORF:

>SC332088 representing NM_001244724.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGGTGACCAAACCCAAAGCAGTGTCCACACCAGCACCAGCTACAACTCAGCAGTCAGCTCCTGCCAGC
ACTACAGCAGTTACTTCCTCCACCACCACAACTGTGGCTCAGGCTCCAACCCCTGTCCCTGCCTTGGCC
CCCACTTCCACACCTGCATCCATCACTCCAGCATCAGCGACAGCATCTTCTGAACCTGCACCTGCTAGT
GCAGCTAAACAAGAGAAGCCTGCAGAAAAGCCAGCAGAGACACCAGTGGCTACTAGCCCAACAGCAACT
GACAGTACATCGGGTGATTCTTCTCGGTCAAACCTTTTTGAAGATGCAACGAGTGCACTTGTGACGGGT
CAGTCTTACGAGAATATGGTAACTGAGATCATGTCAATGGGCTATGAACGAGAGCAAGTAATTGCAGCC
CTGAGAGCCAGTTTCAACAACCCTGACAGAGCAGTGGAGTATCTTTTAATGGGAATCCCTGGAGATAGA
GAAAGTCAGGCTGTGGTTGACCCCCCTCAAGCAGCTAGTACTGGGGCTCCTCAGTCTTCAGCAGTGGCT
GCAGCTGCAGCAACTACGACAGCAACAACTACAACAACAAGTTCTGGAGGACATCCCCTTGAATTTTTA
CGGAATCAGCCTCAGTTTCAACAGATGAGACAAATTATTCAGCAGAATCCTTCCTTGCTTCCAGCGTTA
CTACAGCAGATAGGTCGAGAGAATCCTCAATTACTTCAGCAAATTAGCCAACACCAGGAGCATTTTATT
CAGATGTTAAATGAACCAGTTCAAGAAGCTGGTGGTCAAGGAGGAGGAGGTGGAGGTGGCAGTGGAGGA
ATTGCAGAAGCTGGAAGTGGTCATATGAACTACATTCAAGTAACACCTCAGGAAAAAGAAGCTATAGAA
AGGTTAAAGGCATTAGGATTTCCTGAAGGACTTGTGATACAAGCGTATTTTGCTTGTGAGAAGAATGAG
AATTTGGCTGCCAATTTTCTTCTACAGCAGAACTTTGATGAAGATTGA

Restriction Sites: SgfI-MluI

ACCN: NM_001244724

Insert Size: 1014 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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.

RefSeq: NM_001244724.1

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

MW: 35 kDa

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]
Transcript Variant: This variant (3) differs in the 5' UTR and coding sequence compared to isoform (1). The resulting isoform (3) is shorter at the N-terminus compared to isoform 1.
Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.