

Product datasheet for **RG222684**

hHR23A (RAD23A) (NM_005053) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	hHR23A (RAD23A) (NM_005053) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	hHR23A
Synonyms:	HHR23A; HR23A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222684 representing NM_005053 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGTCACCATCACGCTCAAACGCTGCAGCAGCAGACCTTCAAGATCCGCATGGAGCCTGACGAGA
CGGTGAAGGTGCTAAAGGAGAAGATAGAAGCTGAGAAGGGTCGTGATGCCTTCCCGTGGCTGGACAGAA
ACTCATCTATGCCGGCAAGATCTTGAGTGACGATGTCCCTATCAGGGACTATCGCATCGATGAGAAGAAC
TTTGTGGTCGTCATGGTGACCAAGACAAAGCCGGCCAGGGTACCTCAGCACCCAGAGGCCTCACCCA
CAGCTGCCCCAGAGTCTCTACATCCTTCCCGCTGCCCCACCTCAGGCATGTCCATCCCCACCTGC
CGCCAGAGAGGACAAGAGCCCATCAGAGGAATCCGCCCGCGACGTCCCAGAGTCTGTGTGAGGCTCT
GTTCCCTCTTCAGGTAGCAGCGGGCGAGAGGAAGACGCGGCTCCACGCTAGTGACGGGCTCTGAGTATG
AGACGATGCTGACGGAGATCATGTCCATGGGCTATGAGCGAGAGCGGGTCGTGGCCGCCCTGAGAGCCAG
CTACAACAACCCACCGAGCCGTGGAGTATCTGCTCACGGGAATTCCTGGGAGCCCGAGCCGGAACAC
GGTTCTGTCCAGGAGAGCCAGGTATCGGAGCAGCCGCCACGGAAGCAGGAGAGAACCCCTGGAGTTCC
TGCGGGACCAGCCCAGTCCAGAACATGCGGCAGGTGATTCAGCAGAACCCTGCGCTGTGCCCGCCT
GCTCCAGCAGCTGGGCCAGGAGAACCCTCAGCTTTTACAGCAAATCAGCCGGCACCAGGAGCAGTTTCATC
CAGATGCTGAACGAGCCCTGGGGAGCTGGCGGACATCTCAGATGTTGGAGGGGGAGGTGGGCGCCATAG
GAGAGGAGGCCCGCAGATGAACTACATCCAGGTGACGCCGAGGAGAAAGAAGCTATAGAGAGGTTGAA
GGCCCTGGGCTTCCAGAGAGCCTGGTATCCAGGCCTATTTTCGCGTGTGAAAAAATGAGAACTTGCT
GCCAACTCTCTGAGTCAGAACTTTGATGACGAG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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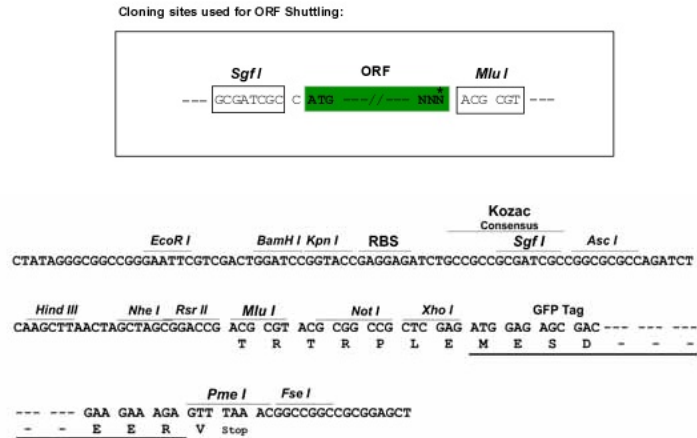
Protein Sequence: >RG222684 representing NM_005053
 Red=Cloning site Green=Tags(s)

MAVTITLKLQQTFFKIRMEPDETVKVLKEKIEAEKGRDAFPVAGQKLIYAGKILSDDVPIRDIRIDEKN
 FVVVMVTKTKAGQTSAPPEASPTAAPESSSFPPAPTSMSHPPAAREDKSPSEESAPATSPESVSGS
 VPSSGSSGREEDAATLVTGSEYETMLTEIMSMGYERERVVAALRASYNPNPHRAVEYLLTGIPGSPEPEH
 GSVQESQVSEQPATEAGENPLEFLRDQPQFQNMQRQVIQQNPALLPALLQQLGQENPQLLQQISRHQEQFI
 QMLNEPPGELADISDVEGEVGAIGEEAPQMNYIQVTPQEKEAIERLKALGFPESLVIQAYFACEKNENLA
 ANFLLSQNFDDE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005053

ORF Size: 1086 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_005053.2](#), [NP_005044.1](#)

RefSeq Size: 1793 bp

RefSeq ORF: 1092 bp

Locus ID: 5886

UniProt ID: [P54725](#)

Cytogenetics: 19p13.13

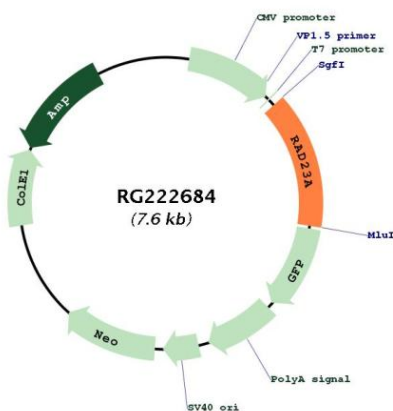
Domains: UBA, UBU, STI1

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 nucleotide excision repair. Proteins in this family have a modular domain structure consisting of an ubiquitin-like domain (Ubl), ubiquitin-associated domain 1 (Uba1), XPC-binding domain and Uba2. The protein encoded by this gene plays an important role in nucleotide excision repair and also in delivery of polyubiquitinated proteins to the proteasome. Alternative splicing results in multiple transcript variants encoding multiple isoforms. [provided by RefSeq, Jun 2012]

Product images:



Circular map for RG222684