

Product datasheet for MR229500

Rad23a (NM_001297606) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rad23a (NM_001297606) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Rad23a
Synonyms: 2310040P19Rik; AL024030; HR23A; mHR23A
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR229500 representing NM_001297606
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGCCGTCACCATCACCTTAAAACGTTGCAGCAGCAGACCTTCAAGATCCGCATGGAACCTGACGAGA
 CGGTAAAGGTGCTGAAGGAGAAGATAGAAGCTGAGAAGGGTAGAGATGCTTCCCGTGGCTGGACAGAA
 ACTCATCTATGCTGGCAAGATCTTGAGTGACGATGTTCCCATCAAGGAATACCATATAGATGAGAAGAAC
 TTTGTGGTTGTCATGGTGACCAAGGCCAAAGCTGGCCAGGGTATCCCGCACCCAGAGGCTCACCCA
 CTGCTGTCCCGGAGCCCTCCACACCTTCCCTCCAGTCCCTGGCATCAGGCATGTCTCATCCCCACCTAC
 CAGCAGAGAGGACAAGAGCCCATCAGAGGAGTCAACCACCACAACATCTCCAGAATCCATTTCTGGCTCT
 GTTCCCTCTTCAGGTAGCAGCGGGCAGAGGAAGACGCAGCTTCCACATTAGTGACTGGCTCTGAATATG
 AGACGATGCTGACTGAGATCATGTCCATGGGCTACGAGCGGGAGCGGGTGTGGCCGATTGAGGGCCAG
 CTACAACAACCCACCGAGCTGTGGAGTACTTGCTCACGGGAATTCAGGAAGCCCTGAGCCTGAACAT
 GGTTCTGTCCAGGAAAGCCAGGCGCTGAGCAGCCGCCACAGAAGCAGCAGGGGAGAACCCCTGGAGT
 TCCTGCGGACCAGCCTCAGTCCAGAACATGCGGCAAGTGATTCAACAGAACCCAGCGCTCCTGCCTGC
 TCTGCTCCAGCAGCTGGGTGAGGAAACCTCAGCTCTGCAGCAAATTAGCCGTACCAGGAGCAGTTC
 ATCCAGATGTTGAATGAGCCTCCCGGGAGCTGGCGGACATCTCTGATGTAGAGGGGAGGTTGGTGCCA
 TAGGTGAGGAGGCCCCACAGATGAACTATATCCAGGTGACACCGCAGGAGAAGGAGGCTATAGAAAGGCT
 GAAGGCACTGGGCTTCCAGAGAGCCTGGTGATCCAGGCCTACTTCGCGTGTGAAAAAATGAGAATTTG
 GCTGCCAACTTCTCCTGAGTCAGAACTTTGATGATGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR229500 representing NM_001297606
 Red=Cloning site Green=Tags(s)

MAVTITLKLQQTFKIRMEPDETVKVLKEKIEAEKGRDAFPVAGQKLIYAGKILSDDVPIKEYHIDEKN
 FVVVMVTKAKAGQGIPAPPEASPTAVPEPSTPFPVPLASGMSHPPTSREDKSPSEESTTTTSPESISGS
 VPSSGSSGREEDAASLTVTGSEYETMLTEIMSMGYERERVVAALRASYNPNHRAVEYLLTGIPGSPEPEH
 GSVQESQAPEQPATEAAGENPLEFLRDQPQFQNMQRQVIQQNPALLPALLQQLGQENPQLLQQISRHQEQF
 IQMLNEPPGELADISDVEGEVGAIGEEAPQMNYIQVTPQEKEAIERLKALGFPESLVIQAYFACEKNENL
 AANFLLSQNFDE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001297606

ORF Size: 1089 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_001297606.2](#)

RefSeq Size: 2101 bp

RefSeq ORF: 1092 bp

Locus ID: 19358

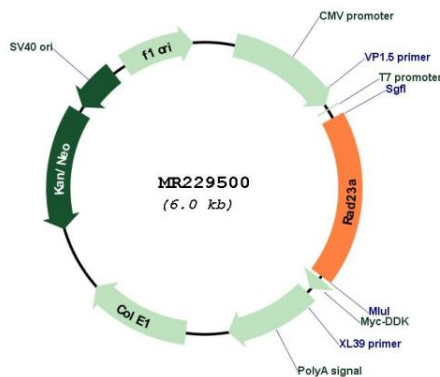
UniProt ID: [P54726](#)

Cytogenetics: 8 C2

MW: 40.2 kDa

Gene Summary: Multiubiquitin chain receptor involved in modulation of proteasomal degradation. Binds to 'Lys-48'-linked polyubiquitin chains in a length-dependent manner and with a lower affinity to 'Lys-63'-linked polyubiquitin chains. Proposed to be capable to bind simultaneously to the 26S proteasome and to polyubiquitinated substrates and to deliver ubiquitinated proteins to the proteasome (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR229500