

Product datasheet for **MG226499**

Rad54I2 (NM_030730) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rad54I2 (NM_030730) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rad54I2
Synonyms:	Arip4; D130058C05; G630026H09Rik; Srisnf2l
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226499 representing NM_030730 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCAGACGAATCCGCCTCAGGGAGCGATCCAGACCTGGACCCGGACGTGGAGCTGGAGGATGAGGAAG
AGGAGGAGGAGGAGGAGGAGGTGGCAGTGGAGGAGCATGACAGGGATGACGAGGAAGGCCTGCTGGATGA
CACATCCCTGGAAGGCATGTGTGGCACTGAGCATGCCAGCTGGGGAAGATGGGCAGCGCCGCCCGCG
TGCACTTCAACTACCTCATCTCAGTCTGAGCCTTCAGAGCAGCTTAGGCCACCAAGCAAGATCCTAGCAT
CCGAGGACCCCAAAAAGAAGCGAGCTCAGAAGCCCTCTCATATGAGAAGAAACATACGAAAGCTACTCCG
GGAGGATCAGTTGGAGCCGTAACCAAAGCAGCACAGCAGGAAGAATTGGAAGAAGAAAGCGCCTGGAG
CAGCAGAGGAAAGAAATATGCAGCCCCATTCTACTGTCCCTTTGGAGTTCTACCTGAGGAAATTTGCT
TACGAGCTAGTGATGGTCCCCAGCTCCCACCTCGGGTCTTAGCCCAGGAAGTCATTTGTTGGACAGTAG
CAGTGGCAGTGAGGATGAAAAGAGTAGTCGAGACGAGGTAATTGAGCTGAGTTCTGGAGAGGAGGATACG
CTGCACATCGTGGACAGCAGTGAGTCTGTGACGAGGAGGACGAGGAAGAGGAGAAGGGTGGCACCCATG
TGAATGACGCCTTAAACCAGCATGATGCTCTCGGGCGGGTCTTGTCAACCTGAATCACCTCCAGAGGA
GGAGAATGTCTTCTGGCCCCCAGTTGGCACGGGTGTGAAACCTCATCAGATTTGGTGGATCCGGTTC
CTATATGATAACCTAGTGGAGTCTTAAAGGTTTAAAGACCAGTGTGGCTTTGGCTGTATCCTGGCCC
ATAGCATGGCCTGGGGAAAACCTCTGCAAGTGATCTCTTTCATTGATGTCTTTTCCGCCATACTCCAGC
CAAAACAGTCTTGGCATTGTGCGCGTGAACACTCTTCAAGAAATTGGTTGGCAGAGTTCAACATGTGGCTC
CCGGCTCTGAAGCCCTCCAGCCGACAGCAAGCCTGAAGAAGTCCAGCCTCGGTTCTTTAAAGTTCATA
TCTTGAATGATGAACACAAGACGGTGGCATCCCGTGCTAAAGTACGGCTGATTGGGTTTCAGAGGGTGG
AGTGTCTGATGGGTATGAGATGTACAGACTACTCACACTGAAGAAGTCTTAGCCACAAGTAGGCCG
AAGAAAACCAAGAAACGCTCTCATCCCGTCATATTGATCTGGATGAAGAAGACCCGCAGCAGGAGTTCC
GGAGAGAGTTTGAAGGCTTATGCCGCCCTGGTCTGATGTGGTGTCTGTGACGAGGGACCCGCAT
CAAAAATTGCCAAGCCAGCACCTCACAGGCTCTGAAGAACATACGTTCTCGTCCGGGTAGTGCTGACT



[View online »](#)

GGCTACCCTCTACAGAACAACCTCATTGAGTACTGGTGCATGGTGGACTTTGTGCGCCAGATTTCTTG
GTACTCGTCAGGAGTTTAGCAACATGTTTGAACGCCATCCTAAACGGACAGTGTATTGACAGCACACC
TCAGGATGTCCGCCTCATGCGCTACCGGAGCCATGTTTGCACAGCCTCCTGGAGGGCTTCGTGCAGAGG
AGAGGCCACACTGTGTTGAAGATTCACCTCCCTGCCAAAGAAGAGAATGTGATCCTGGTGGCCTTTCTC
AGATCCAGCGAGATTTGTACACACAATTCATGGACCGTTCCGGGATTGTGGTACCAGTGGCTGGTTAGG
GCTGAATCCTCTGAAGGCTTTCTGTGTATGCTGCAAGATCTGGAACCATCCTGATGTGCTGTATGAAGCC
CTTCAGAAGGAAAACCTAGCCAATGAGCAAGACCTAGATGTGGAAGAATTGGCTCAGCGGGACCAAGC
CCCGCTGCCACCACACGGCACAAAAGTCAAGGGAGAAGATAGTGCCTTGCCTTCTCAATGGGAGAAGC
AACCAACAGCAAGTTCCTACAGGGAGTTGGCTTTAACCTTTCCAGGAACGGGGCAATAACATTGTTACA
TATGAGTGGGCCAAGGAGCTTCTGACTAATTATCAGACTGGAGTCTGGAGAACTCTCCAAGATGGTAC
TGCTTTTCCACCTGATTGAAGAAAGCGTGAAGCTCGGGGACAAGATTCTTGATTTAGCCAGAGCCTTTC
TACCTTGGCTCTCATCGAGGAGTTCCTAGGAAACGAGACATGCCTTGTCTGCCTGGTCCGAGGGGCAA
GGAACACAGAAGTGGTTCGAAATGTCAGTACTTCCGGCTAGATGGTAGCACCCCTGCCTTGGAGAGG
AGCGGCTCATTAAATCAGTTCATGATCCAGCAACCTCACCACCTGGCTGTTCTTCTCCACAAGGGC
CGGATGCTTGGGGTGAATCTGATTGGTCCAATCGAGTGGTGGTATTGATGCTTCTGGAACCTTGC
CATGATGCCAGGAGTATGTCGGGTATACCGTTATGGCCAGAAAAGCCCTGTACATCTATCGACTCG
TGCTGATTATACTCTTGAGAAGAAGATATATGACCGGCAGATTTCCAAGCAGGGCATGTGAGATCGGGT
AGTGGATGATCTAAATCCAATGCTGAACTTCACCCGGAAGGAAGTGGAAAACCTGCTGCACTTTGTTGAG
AAGGAGCCAGCTCCCAAACATCTTTGGATATAAAGGGGATCAAGGAGTCAAGTCTTGCAACTTGCCTGCC
TGAAGTACCCTCACCTCATCACCAGGAGCCTTTTGGACACGAGTCAATGCTCCTCAACCGAAAAGATCA
CAAGCTGACCAAAGCTGAGAAGAAAGCAGCAAAGAAAAGCTATGAGGAGGACAAACGCACATCAGTACCC
TATACCGCCCATCATATGCGCAGTATTACCCTGCCAGCGACAGAGCCTGACCAGCATCCCTGCCTTCA
GTCAGAGGAACTGGCAGCAACACTGAAGGGTATGAAAAGCCTGTGGCCAGCCTTGTGCTGTACAGT
CACCCCATTTCCATGATGCCCGGCATGTCCCACTCAGTGGTGGTGAAGCTCTGCCTCCAGCAAAAT
ACATCCATGAACTTCCCTATCAACTACTTGCAGCGGGCAGGAGTCTTGTGCAGAAAAGTGGTTACCACGA
CAGATATTGTTATCCCTGGACTCAACAGCTCCACAGATGTTTCCAGCAAGAATCAATGCTGGTGGAGAGCAT
CCACATCATCCGAGGGACGAAAGGGACATACATCCGCACCAGTATGGACGCATCTTTGTGTCCGGGCG
ACCGGCAAACCAAGGCCCTGAAGATGGTGGATGGCTGCCTCAGGTTCCAGGGGCTTCTCTTGGCT
CCACAAGCAATGGCAGACATAGTGCCTCATCACCAGCCCTGACCCGAGGGGCTGGCCCGCCGGT
CTCTCCTGACAGCCAGAAATCATCAGTGAATCCAGCAGTATGCAGATGTGGCCGCTGCTCGGGAATCC
CGGAGAGCTCCCAAGCATCAGTGTGCCTGCCTGGGCCCCGGGCCAGCTTATGGACAACAGCACCA
TTCTGGGACAGCTCTTGAACTGAGCCATGCCTTGGGGTCAATGCCTCAATAGTTCCTCTTGGTGC
TGCCAGCCAGTGGTGGCAGGCACCCAGTGTGGACTTAAGGGGCCATAAGCGAAAAGTGGTACTCCG
TCTGTACCCAGGAATCAATCCGTGCGCGGTCCAGGAAGGGCCATCTGCCAGCCCCGTGACGCCATG
AACATGGGTATCCAGTCTCTGGCGGTTTGAATGCCGCTGTCTCCTTAAATATAACCTCACCACCC
CTTCACTCCAGGCTGGGGAGAATCCCTATTTATGGGCAGTAAATCCCTCCTACTACCAGCTGTCAAT
TTGCTGGCAGATGCCGCTGGTGTTCAGTACTACTGACCTCTGGTCCAGCAGGCCCTGTGAGT
CCTTTCCAGGGTACCTCAGTACTGCCAGCAACCCCTCCTTATGCTCAACCCCTCCGTGCCAGGGT
GCTACCCAGCTATTCACCTCCATTCTCACAGCCACTCCTGTCCGAGCCAGGATGTTTGGCCTTTCCCT
TCCCCGGCTTGCCAGCAACCTTCTCGGGCGTGTCTGTCTACCCAGGCTATATGCCCCACATGCAG
GCTACCCAGTGGTGGCCTCCTCCGGTCCAGGTGCCTCATTGACTCGCATGAGGTGGCGGAGGTGG
GTTGAGCTCCAATGATGATGAGGATAAAGATGATGATGTGATAGAGGTCCTGGGAAG

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTAA

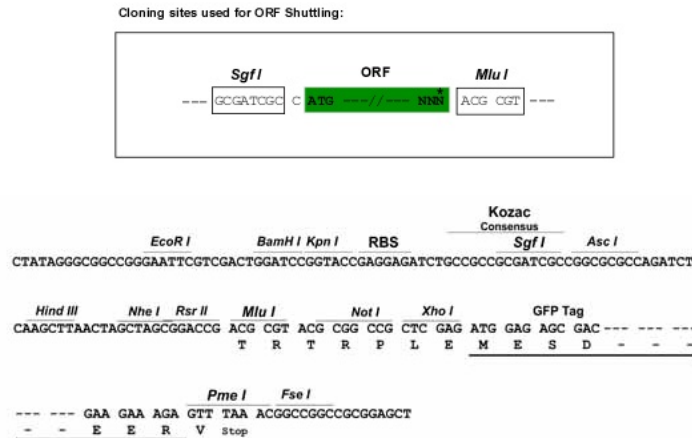
Protein Sequence: >MG226499 representing NM_030730
 Red=Cloning site Green=Tags(s)

MSDESASGSDPDLDPDVELEDEEEEEEEEEVEVEEHDRDDEEGLLDSTSLEGMCQTEHAQLGEDGQRP
 CTSTTSSQSEPEQLRHQKILASEDPKKKRAQKPSHMRRNIRKLLREDQLEPVTKAAQQEELERRKRL
 QQRKEYAAPITVPLEFLPEEIVLRASDGPQLPPRVLAQEVICLDSSSGSEDEKSSRDEVIELSSGEED
 LHIVDSSESVSEEEEEKGGTHVNDALNQHDALGRVNLNHPPEEENVFLAPQLARAVKPHQIGGIRF
 LYDNLVESLERFKTSSGFGCILAHSMGLGKTLQVLSFIDVLFHRTPAKTVLAIVPVNTLQNLAEFNMWL
 PAPEALPADSKPEEVQPRFFKVHILNDEHKTVASRAKVTADWVSEGGVLLMGYEMYRLLTLKKSLSR
 KKTKKRSHPIIDLDEEDRQEQFRREFEKALCRPGDVVICDEGHRKNCQASTSQALKNIRRRRVLT
 GYPLQNNLIEYWCMDVFRPDFLGTREFSNMFERPILNGQCIDSTPQDVRLMRYRSHVLHSLLEGFVQR
 RGHTVLKIHLPAKEENVILVRLSQIQRDLYTFMDRFRDCGTSGLNLPLKAFVCCKIWNHPDVL
 YEALQKENLANEQDLVEELGSAGTSARCPHGTGKVGEDSALPSSMGEATNSKFLQGVGFNPFQER
 GNNIVTYEAKELLTNYQTGVLENSPKMVLFLHIEESVKLGDKILVFSQSLSTLALIEEFLGKR
 DMPCLPGAEGQGTQKWVRNVSYFRLDGSTPAFERERLINQFNDPSNLTTWLFLLSTRAGCLGVN
 LIGANRVVVFSDASWNPC HDAQAVCRVYRYGQKPKCHIYRLVADYTLKIKIYDRQISKQGM
 SDRVDDLNPMNLNFRKEVENLLHFVEKEPAPQTSLDIKGIKESVLQLACLKYPHLITKEP
 FEHESLLLNRKDHLTKAEKKAACKSYEEDKRTSVPYTRPSYAQYYPASDQSLTSIPAFSQRN
 WQPTLKGDEKPVASVRPVQSTPIPMMPRHVPLSGGVSSASSTNTSMNFPINYLQRAGV
 LVQKVTTTDDIVIPGLNSSTDVQARINAGESIHIRGKTGYIRTSDGRIFAVRATGKPKAPED
 GRMAASGSQGPLASTSNGRHSASSPKAPDEGLARPVSPDSPEIISELQQYADVA
 AARES RQSSPISIAALPGPPQLMDNSTIPGTALGTEPCLGGHCLNSSLLVTGQPSGGR
 HPVLDLRGHKRKLATP SVTQESIRRRSRKGHLPAVQPYEHGYPVSGGFAMPPVSLNHN
 LTPFTSQAGENSLFMGSNPSYYQLSNLLADARLVFPVTTDPLVPAGPVSSSSTATSVTAS
 NPSFMLNPSVPGMLPSYSLPFSQPLLEPRMFAFPFSPGLPSNL SRGVSYPGYMSPHAGY
 PAGLLRSQVPPFDSHEVAEYVGFSSNDDKDDDDVIEVTGK

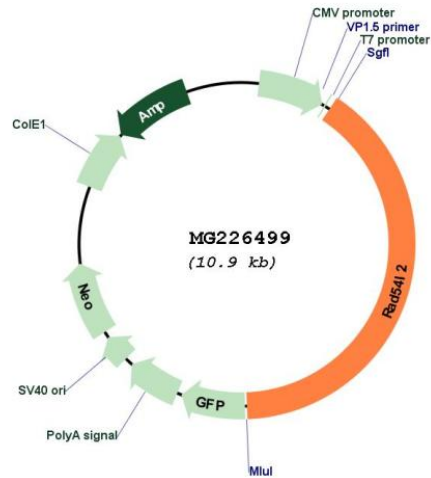
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_030730
ORF Size:	4401 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_030730.1](#)

RefSeq Size: 9342 bp

RefSeq ORF: 4404 bp

Locus ID: 81000

UniProt ID: [Q99NG0](#)

Cytogenetics: 9 F1

Gene Summary: DNA helicase that modulates androgen receptor (AR)-dependent transactivation in a promoter-dependent manner. Not able to remodel mononucleosomes in vitro. Acts as an AR-coregulator in Sertoli cells.[UniProtKB/Swiss-Prot Function]