

Product datasheet for **RG239031**

NR2C2 (NM_001291694) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NR2C2 (NM_001291694) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NR2C2
Synonyms:	TAK1; TR4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG239031 representing NM_001291694.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGACCAGCCCCCCCCACGCATCCAGATAATCTCCACCGACTCTGCTGTAGCCTCACCTCAGCGCATT
CAGATTGTCACAGACCAGCAGACAGGACAGAAAAATCCAGATAGTCACCGCAGTGGACGCCTCCGGATCC
CCCAAACAGCAGTTCATCCTGACCAGCCAGATGGAGCTGGAACCTGGGAAGGTGATCCTGGCTTCCCA
GAGACATCCAGCGCCAAGCAACTCATATTCACCACCTCAGACAACCTCGTCCCTGGCAGGATCCAGATT
GTCACGGATTCTGCCTCTGTGGAGCGTTTACTGGGAAGACGGACGTCCAGCGGCCCCAGGTGGTAGAG
TACTGTGTGGTCTGTGGCGACAAAGCCTCCGGCCGTCACTATGGGGCTGTGAGTTGTGAAGTTGCAAA
GGTTTCTTCAAAGGAGTGTGAGGAAAAATTTGACCTACAGCTGCCGGAGCAACCAAGACTGCATCATC
AATAAACATCACCGAACCGCTGTCAGTTTTGCCGGCTGAAAAATGCTTAGAGATGGGCATGAAAAATG
GAATCTGTGCAGAGTGAACGGAACCGCTTCGATGTGCAACGGGAGAAACCAAGCAATTGTGCTGCTTCA
ACTGAGAAAAATCTATATCCGAAAGACCTGAGAAGTCCCCTGATAGCTACTCCCAGTTTTGTGCCAGAC
AAAGATGGAGCAAGACAACAGGCTTCTTGTATCCAGGGATGCTTGTGAACATCCAGCAGCCTTTGATA
CGTGAGGATGGTACAGTTCTCCTGGCCACGGATTCTAAGGCTGAAACAAGCCAGGGAGCTCTGGGCACA
CTGGCAAATGTAGTGACCTCCCTTGCCAACTAAGTGAATCTTTGAAACAAGGTGACACTTCAGAAATC
CAGCCAGAGGACCAGTCTGCAAGTGAGATAACTCGGGCATTGATACCTTAGCTAAAGCACTTAATACC
ACAGACAGCTCCTCTTCTCAAGCTTGGCAGATGGGATAGACACCAGTGGAGGAGGGAGCATCCACGTC
ATCAGCAGAGACCAGTCGACACCCATCATTGAGGTTGAAGGCCCTCCTTTAGACACACACGTCACA
TTTAAGCTAACAATGCCAGTCCAATGCCAGAGTACCTCAACGTGCACTACATCTGTGAGTCTGCATCC
CGTCTGCTTTTCTCTCAATGCCTGCGGCTCGGTCAATCCAGCCTTTTCAGGCAGCTTGGGCAGGACTGC
AACACCAGCCTTGTGCGGCCTGCTGGAATGAGCTCTTACCCTCGGCCTGGCCAGTGTGCCAGGTC
ATGAGTCTCTCCACCATCCTGGCTGCCATTGTCAACCACCTGCAGAACAGCATCCAGGAAGATAAATTT
TCTGGTGACCGGATAAAGCAAGTCATGGAGCACATCTGGAAGCTGCAGGAGTTCTGTAACAGCATGGCG
AAGCTGGATATAGATGGCTATGAGTATGCATACCTTAAAGCTATAGTTCTCTTTAGCCCCGATCATCCA
GGTTTGACCAGCACAAGCCAGATTGAAAAATCCAAGAAAAGGCACAGATGGAGTGCAGGACTATGTT
CAGAAAACCTACTCAGAAGACCTACCGATTGGCCCGGATCCTCGTTCGCTGCCGCACTCAGGCTG
ATGAGCTCCAACATAACAGAAGAACTTTTTTTTACTGGTCTCATTGGCAATGTTTCGATAGACAGCATA
ATCCCCTACATCCTCAAGATGGAGACAGCAGAGTATAATGGCCAGATCACCGGAGCCAGTCTA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
  
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Protein Sequence:

>Peptide sequence encoded by RG239031
 Blue=ORF Red=Cloning site Green=Tag(s)

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MTSPSPRIQIISTDSAVASPQRIQIVTDQQTGQKIQIVTAVDASGSPKQQFILTSPDGAGTGKIVILASP
ETSSAKQLIFTTSDNLVPGRIQIVTDSASVERLLGKTDVQRPQVVEYCVVCGDKASGRHYGAVSCEGCK
GFFKRSVRKNLTYSCRSNQDCIINKHHRNRCQFCRLKKCLEMGMKESVQSERKPFVQREKPSNCAAS
TEKIYIRKDLRSPLIATPTFVADKDGARQTGLLDPGMLVNIQQPLIREDGTVLLATDSKAETSQGALGT
LANVVTSLANLSESLNNGDTSEIQPEDQSASEITRAFDTLAKALNTDSSSSPSLADGIDTSGGGSIHV
ISRDQSTPIIEVEGPLLSDTHVTFKLTMPSPMPEYLVNHYICESASRLLFLSMHWARSIPAFQALGQDC
NTSLVRACWNELFTLGLAQCAQVMSLSTILAAIVNHLQNSIQEDKLSGDRIKQVMEHIWKLQEFCSMA
KLDIDGYEYAYLKAIVLFSPDHPLTSTSQIEKFQEKQMEQLQDYVQKTYSEDTYRLARILVRLPALRL
MSSNITEELFFTGLIGNVSIDSIIPIYILKMETAEYNGQITGASL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
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Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001291694

ORF Size: 1788 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).

RefSeq: [NM_001291694.2](#)

RefSeq Size: 8428 bp

RefSeq ORF: 1791 bp

Locus ID: 7182

UniProt ID: [P49116](#)

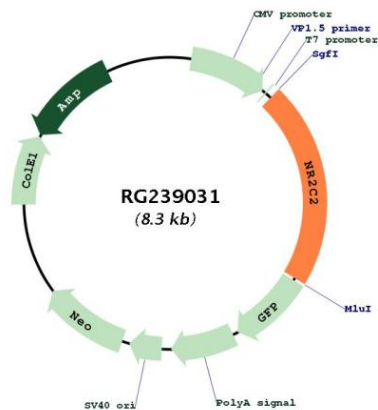
Cytogenetics: 3p25.1

Protein Families: Druggable Genome, Nuclear Hormone Receptor, Transcription Factors

MW: 65.9 kDa

Gene Summary:

This gene encodes a protein that belongs to the nuclear hormone receptor family. Members of this family act as ligand-activated transcription factors and function in many biological processes such as development, cellular differentiation and homeostasis. The activated receptor/ligand complex is translocated to the nucleus where it binds to hormone response elements of target genes. The protein encoded by this gene plays a role in protecting cells from oxidative stress and damage induced by ionizing radiation. The lack of a similar gene in mouse results in growth retardation, severe spinal curvature, subfertility, premature aging, and prostatic intraepithelial neoplasia (PIN) development. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2014]

Product images:


Circular map for RG239031