

Product datasheet for **RG219184**

NR2C2 (NM_003298) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NR2C2 (NM_003298) 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:

>RG219184 representing NM_003298
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACCAGCCCCTCCCCACGCATCCAGATAATCTCCACCGACTCTGCTGTAGCCTCACCTCAGCGCATT
 AGGGCTCTGAACCTGCCTCTGGCCATTGAGTGTTCACATCTTTGAACAAAGAGAAGATTGTCACAGA
 CCAGCAGACAGGACAGAAAATCCAGATAGTCACCGCAGTGGACGCCTCCGGATCCCCAAACAGCAGTTC
 ATCCTGACCAGCCAGATGGAGCTGGAAGTGGGAGGTGATCCTGGCTTCCCAGAGACATCCAGCGCCA
 AGCAACTCATATCCACCCTCAGACAACCTCGTCCCTGGCAGGATCCAGATTGTCACGGATTCTGCCTC
 TGTGGAGCGTTTACTGGGAAGACGGACGTCCAGCGGCCCCAGGTGGTAGAGTACTGTGTGGTCTGTGGC
 GACAAAGCCTCCGGCCGCTACTATGGGGTGTGAGTGTGAAGGTTGCAAAGTTTCTTCAAAGGAGTG
 TGAGGAAAAATTTGACCTACAGCTGCCGGAGCAACCAAGACTGCATCATATAAACATCACCGGAACCG
 CTGTCAGTTTTGCCGGCTGAAAAATGCTTAGAGATGGGCATGAAAATGGAATCTGTGCAGAGTGAACGG
 AAGCCCTTCGATGTGCAACGGGAGAAAACCAAGCAATTGTGCTGCTTCAACTGAGAAAAATCTATATCCGGA
 AAGACCTGAGAAGTCCCCTGATAGCTACTCCCACGTTTGTGGCAGACAAAGATGGAGCAAGACAAACAGG
 TCTTCTTGATCCAGGGATGCTTGTGAACATCCAGCAGCCTTTGATACGTGAGGATGGTACAGTTCTCCTG
 GCCACGGATTCTAAGGCTGAAACAAGCCAGGGAGCTCTGGGCACACTGGCAAATGTAGTGACCTCCCTTG
 CCAACCTAAGTGAATCTTTGAACAACGGTGACACTTCAGAAAATCCAGCCAGAGGACCAGTCTGCAAGTGA
 GATAACTCGGGCATTGTACCTTAGCTAAAGCACTTAATACCACAGACAGCTCCTCTTCTCAAGCTTG
 GCAGATGGGATAGACACCAGTGGAGGAGGAGCATCCACGTATCAGCAGAGACCAGTCCGACACCCATCA
 TTGAGGTTGAAGGCCCTCCTTTCAGACACACACGTACATTTAAGCTAACAAATGCCAGTCCAATGCC
 AGAGTACCTCAACGTGCACTACATCTGTGAGTCTGCATCCCGTCTGCTTTTCTCTCAATGCACTGGGCT
 CGGTCAATCCCAGCCTTTCAGGCACTTGGCAGGACTGCAACACCAGCCTTGTGCGGGCCTGCTGGAATG
 AGCTCTTACCCTCGGCCTGGCCAGTGTGCCAGGTCATGAGTCTCTCCACCATCCTGGCTGCCATTGT
 CAACCACCTGCAGAACAGCATCCAGGAAGATAAATTTCTGGTGACCGGATAAAGCAAGTATGGAGCAC
 ATCTGGAAGCTGCAGGAGTTCTGTAACAGCATGGCGAAGCTGGATATAGATGGCTATGAGTATGCATACC
 TTAAGCTATAGTTCTTTAGCCCCGATCATCCAGGTTTGACCAGCACAAAGCCAGATTGAAAAATTCCA
 AGAAAAGGCACAGATGGAGTTCAGGACTATGTTCAAAAACTACTCAGAAGACACCTACCGATTGGCC
 CGGATCCTCGTTGCCTGCCGGCACTCAGGCTGATGAGCTCCAACATAACAGAAGAACTTTTTTTTACTG
 GTCTATTGGCAATGTTTCGATAGACAGCATAATCCCCTACATCTCAAGATGGAGACAGCAGAGTATAA
 TGCCAGATCACCGGAGCCAGTCTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG219184 representing NM_003298
 Red=Cloning site Green=Tags(s)

MTSPSPRIQIISTDSAVASPRIQGSEPASGPLSVFTSLNKEKIVTDQQTGQKIQIVTAVDASGSPKQQF
 ILTSPDGAGTGKIVILASPETSSAKQLIFTTSDNLVPGRIQIVTDSASVERLLGKTDVQRPVVEYCVVCG
 DKASGRHYGAVSCEGCKGFFKRSVRKNLTYSRNSNQDCIINKHHRNRCQFCRLKKCLEMGMKMSVQSER
 KPFDVQREKPSNCAASTEKIYIRKDLRSPLIATPTFVADKDGARQTGLLDPGMLVNIQQPLIREDGTVLL
 ATDSKAETSQALGTLANVVTSLANLSESLNNGDTSEIQPEDQSASEITRAFDTLAKALNTDSSSSPSL
 ADGIDTSGGSIHVISRQSTPIIEVEGPLLSDTHVTFKLTMPSPMPEYLVNHYICESASRLLFLSMHWA
 RSIPAFQALGQDCNTSLVRACWNEFLTLGLAQCAQVMSLSTILAAIVNHLQNSIQEDKLSGDRIKQVMEH
 IWKLQEFNCNSMAKLDIDGYEYAYLKAIVLFSPPHPGLTSTSQIEKFQEKAMELQDYVQKTYSEDYRLA
 RILVRLPALRLMSSNITEELFFTLIGNVSDSIIPYILKMETAEYNGQITGASL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_003298

ORF Size: 1845 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_003298.5](#)

RefSeq Size: 2416 bp

RefSeq ORF: 1848 bp

Locus ID: 7182

UniProt ID: [P49116](#)

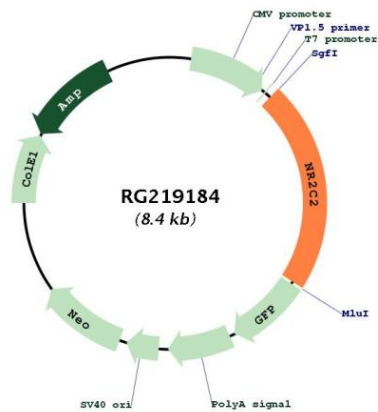
Cytogenetics: 3p25.1

Domains: HOLI, zf-C4

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

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 RG219184