

Product datasheet for **RG201336**

NR2F6 (NM_005234) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NR2F6 (NM_005234) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: NR2F6
Synonyms: EAR-2; EAR2; ERBAL2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG201336 representing NM_005234
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCATGGTGACCGCGGCTGGGGCGGCCCGCGGCGACACGAACGGCGTGGACAAGCGGGCGGCT
 ACCCGCGCGGGCCGAGGACGACTCGGCCCTCGCCCCCGGTGCCGCCAGCGACGCCGAGCCGGGCGACGA
 GGAGCGCGGGGCTGCAGGTGGACTGCGTGGTGTGCGGGGACAAGTCGAGCGGCAAGCATTACGGTGTC
 TTCACCTGCGAGGGCTGCAAGAGCTTTTTCAAGCGAAGCATCCGCCGAACCTCAGCTACACCTGCCGT
 CCAACCGTACTGCCAGATCGACCAGCACCACCGAACCAGTCCAGTACTGCCGTCTAAGAAGTGCTT
 CCGGGTGGCATGAGGAAGGAGGCGGTGCAGCGCGGCCGATCCCGCACTCGCTGCTGGTCCCGTGGCC
 GCCTCCTCGGGCAGCCCCCGGGCTCGGCGCTGGCGCAGTGGCGAGCGGCGGAGACCTCTCCCGGGG
 AGCCGGTGTCCGAAGTATCGCGCAGTGTGCGCGTGAACCCCTACCCTGCGGGCGGCGGACGCTTCGG
 CGCAGGGGGCGGCGCGGCGGGCGGCGGTGCTGGGCATCGACAACGTGTGCGAGTGGCGGCGGGTGTCT
 TTCAGCACCGTGGAGTGGGCGGCCACGCGCCCTTCTCCCGAGCTGCCGTGGCCGACAGGTGGCGC
 TGCTGCGCCTGAGCTGGAGCGAGCTCTTCGTGCTGAACCGCGCGAGCGCGGCTGCCCTGCACACGGC
 GCCGCTACTGGCCGCGCGCCCTCCACGCCGCGCCTATGGCCCGGAGCGCGCCGTGGCTTTTATGGAC
 CAGGTGCGCGCCTCCAGGAGCAGGTGGACAAGCTGGCCCGCTGCAGGTGCAGTCCGCGGAGTATGGCT
 GCCTCAAGGCCATCGCGCTCTTCAGCCCCGACGCTGTGGCTCTCAGACCCGCGCCACGTTGAGAGCCT
 GCAGGAGAAGGCGCAGGTGGCCCTACCGAGTATGTGCGGGCGCAGTACCCGTCCAGCCCCAGCGCTTC
 GGGCGCCTGCTGCTGCGGCTCCCCGCCCTGCGCGCGGTCCCTGCCTCCCTCATCTCCAGCTGTTCTTCA
 TGCGCCTGGTGGGAAGACGCCATTGAGACACTGATCAGAGACATGCTGCTGTCGGGGAGTACCTCAA
 CTGGCCCTACGGCTCGGGCCAG

ACGCGTACGCGGCGGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201336 representing NM_005234
 Red=Cloning site Green=Tags(s)

MAMVTGGWGGPGGDTNGVDKAGGYPRAAEDDSASPPGAASDAEPGDEERPGLQVDCVVCGDKSSGKHYGV
 FTCEGCKSFFKRSIRRNLSTCRSNRDCQIDQHHRNQCYCRLLKCFVGMGRKEAVQGRGRIPHSLPGAVA
 ASSGSPPGSALAAVASGGDLFPGQPVSELI AQLLRAEPYAAAAGRF GAGGGAAGAVL GIDNVCELAARLL
 FSTVEWARHAPFFPELPVADQVALLRLSWSELFVLNAAQAALPLHTAPLLAAAGLHAAPMAAERAVAFMD
 QVRAFQEQVDKLGRLQVDSA EYGCLKAI ALFTP DACGLSDPAHVESLQEKAQVALTEYVRAQYPSQPQR
 GRLLLLRLPALRAVPASLISQLFFMRLVGKTP IETLIRDMLLSGSTFNWPYGSQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005234

ORF Size: 1212 bp

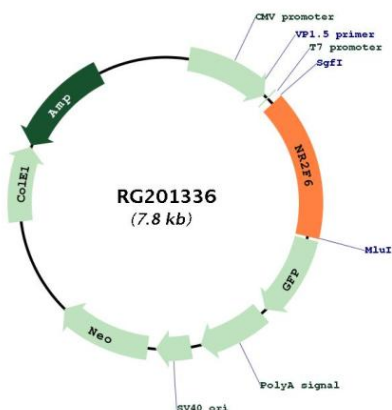
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<ol style="list-style-type: none">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_005234.3 , NP_005225.2
RefSeq Size:	1804 bp
RefSeq ORF:	1215 bp
Locus ID:	2063
UniProt ID:	P10588
Cytogenetics:	19p13.11
Domains:	HOLI, zf-C4
Protein Families:	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
Gene Summary:	<p>Transcription factor predominantly involved in transcriptional repression. Binds to promoter/enhancer response elements that contain the imperfect 5'-AGGTCA-3' direct or inverted repeats with various spacings which are also recognized by other nuclear hormone receptors. Involved in modulation of hormonal responses. Represses transcriptional activity of the lutropin-choriogonadotropic hormone receptor/LHCGR gene, the renin/REN gene and the oxytocin-neurophysin/OXT gene. Represses the triiodothyronine-dependent and -independent transcriptional activity of the thyroid hormone receptor gene in a cell type-specific manner. The corepressing function towards thyroid hormone receptor beta/THRB involves at least in part the inhibition of THRB binding to triiodothyronine response elements (TREs) by NR2F6. Inhibits NFATC transcription factor DNA binding and subsequently its transcriptional activity. Acts as transcriptional repressor of IL-17 expression in Th-17 differentiated CD4(+) T cells and may be involved in induction and/or maintenance of peripheral immunological tolerance and autoimmunity. Involved in development of forebrain circadian clock; is required early in the development of the locus coeruleus (LC).</p> <p>[UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for RG201336