

Product datasheet for **SC116862**

NR2F6 (NM_005234) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | NR2F6 (NM_005234) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | NR2F6 |
| Synonyms: | EAR-2; EAR2; ERBAL2 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF:

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>OriGene sequence for NM_005234 edited
GGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCAGAATTTTG
TAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGCCTGGAACCGGCCCGACCA
GTTCCGCCCGGGCGCGAGGACCGGCCGAGGAAGTTGCTGCAAACTTTTTTGGGGGGTG
CAGCCCGTGCCTCCCGCGCCGGGGCCGAATGCGCGCCGCTAGGGTCCCCCGGGCCGA
GAGGGGTGCCCGGAGGGAAGAGCGCGTGGGGCGCCCGGCCCGCTGCCCTGGGGCTA
TGGCCATGGTGACCGCGGCTGGGGCGGCCCGGCCGCGACACGAACGGCGTGGACAAGG
CGGGCGGCTACCCGCGCGCGGCCGAGGACGACTCGGCCTCGCCCCCGGTGCCGCCAGCG
ACGCCGAGCCGGGCGACGAGGAGCGCCGGGGCTGCAGGTGGAAGTGCCTGGTGTGCGGGG
ACAAGTCGAGCGCAAGCATTACGGTGTCTTACCTGCGAGGGCTGCAAGAGCTTTTTCA
AGCGAAGCATCCGCCGAACCTCAGCTACACCTGCCGGTCCAACCGTGAAGTGCAGATCG
ACCAGCACCCGGAACCAAGTGCAGTACTGCCGTCTCAAGAAGTGTCCGGGTGGGCA
TGAGGAAGGAGGGTGCAGCGCGCCGATCCCGCACTCGTGCCTGGTGCCTGGCCG
CCTCCTCGGGCAGCCCCCGGGTGGCGCTGGCGGAGTGGCGAGCGGGGAGACCTCT
TCCCGGGGCGAGCGGTGTCCGAAGTATCGCGCAGCTGCTGCGCGCTGAGCCCTACCTG
CGGCGGCCGACGCTTCGCGCAGGGGGCGGCGCGGGCGCGCGGTGCTGGGCATCGACA
ACGTGTGCGAGCTGGCGGCGCGGCTGCTTTCAGCACCGTGGAGTGGGCGCGCCACGCGC
CCTTCTCCCGAGCTGCCGGTGGCCGACCAGGTGGCGCTGCTGCGCCTGAGTGGAGCG
AGCTCTTCGTGTGAACGCGGCGCAGGCGGCGCTGCCCTGCACACGGCGCCGCTACTGG
CCGCCCGCGCCTCCACGCCGCGCTATGGCCGCCGAGCGCGCGTGGCTTTCATGGACC
AGGTGCGCGCTTCCAGGAGCAGGTGGACAAGTGGGCCGCTGCAGGTGCACTCGGCCG
AGTATGGCTGCCTCAAGGCCATCGCGCTTTCAGCCCCGACGCTGTGGCCTCTCAGACC
CGCCCCACGTTGAGAGCCTGCAGGAGAAGGCGCAGGTGGCCCTCACCGAGTATGTGCGGG
CGCAGTACCCGTCAGCCAGCGCTTCGGGCGCCTGCTGCTGCGGCTCCCCGCCCTGC
GCGCGGTCCCTGCCTCCCTCATCTCCAGCTGTTCTTCATGCGCCTGGTGGGAAGACGC
CCATTGAGACTGATCAGAGACATGCTGCTGTCGGGGAGTACCTTCAACTGGCCCTACG
GCTCGGGCCAGTGACCATGACGGGGCCACGTGTGCTGTGGCCAGGCTGCAGACAGACCT
CAAGGGACAGGGAATGCTGAGGCCTCGAGGGGCTCCCGGGGCCAGGACTCTGGCTTCT
CTCCTCAGACTTCTATTTTTTAAAGACTGTGAAATGTTTGTCTTTTCTGTTTTTAAATG
ATCATGAAACAAAAAGAGACTGATCATCCAGGCCTCAGCCTCATCTCCCAGGACCCC
TGTCAGGATGGAGGGTCCAATCTAGGACAGCCTTGTTCCTCAGCACCCCTAGCATGAA
CTTGTGGGATGGTGGGGTTGGCTTCCCTGGCATGATGGACAAAGGCTGGCGTCGGCCAG
AGGGGCTGCTCCAGTGGGCGAGGGTAGCTAGCGTGTGCCAGGACAGATCCTCTGGACACGT
AACCTATGTCAGACACTACATGATGACTCAAGGCCAA
    
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| 5' Read Nucleotide Sequence: | <p>>OriGene 5' read for NM_005234 unedited</p> <pre>TTATATTTGTNAATACGCACTCACTTATAGGGCGGCCGGAATTCGCACGAGCCTGGAAC CGGCCCGACCAAGTCCGCCCCGGGCGGAGGACCGCCGAGGAAGTTGCTGCAAACTTT TTTGGGGGGTGCAGCCCGTGCCCCCGCGCCGGGGCCGAATGCGCGCCCGCTAGGGTC CCCCGGCCGAGAGGGGTGCCCGAGGGAAGAGCGCGTGGGGGCGCCCCGGCCCCGCTG CCCTGGGGCTATGGCCATGGTGACCGCGGCTGGGGCGCCCCGGCGGACACGAACGG CGTGACAAAGGCGGGCTACCCGCGCGGCGAGGACGACTCGGCCTCGCCCCCGG TGCCGCCAGCGACGCCGAGCCGGGCGACGAGGAGCGGCCGGGGCTGCAGGTGACTGCGT GGTGTGCGGNGACAAGTCGAGCGCAAGCATTACGGTGTCTTACCTGCGAGGGTGCAA GAGCTTTTTCAAGCGAAGCATCCGCCGCAACCTCAGCTACACCTGCCGGTCCAACCGTGA CTGCCAGATCGACCAGCACCCCGAACCAGTGCCAGTACTGCCGTCTCAAGAAGTGCTT CCGGGTGGGCATGAAGAAAGANGCGGTGCAGCGCGCCGCATCCCGCACTCGCTGCCTGG TGCCGTGGNCGCCTTCTCGGNCAGCCCCCGGCTTCGCGCTTGCGCCATTGCGAGCGGC GGAGACCTTCCCGGNGCAGCCCGTGTCCGAAGTATCGCGCAGCTGCTGCGCGCTGAC CCCTACCTGCGGGCGCCGAACCTTCGCCAGGNGCGGCCGATGGCCCCGTGTGGCA TCNACACGTGTGCGAGCTGGCGGCGCGTCTTTCACAACGTGATTGGGCGCGCACGGC CCCTTTTTCCCGACTGCCGTGGCCGACAAGTGGCGTGTCCCTGACTGTACAACCTTTT CTGACCG</pre> |
| 3' Read Nucleotide Sequence: | <p>>OriGene 3' read for NM_005234 unedited</p> <pre>AAGTGTGGGCAAGTCTTTTTTTGGCCTTGGATCTCATGTAGTGTCTGACATAGGTTACGT GTCCAGAGGATTCGCTGGCACACGCTAGCTACCCTGCCCACTGGAGCAGCCCCCTGG CCGACGCCAGGCCTTTGTCCATCATGCCAGGGAAGCCAACCCACCATCCACAAGTTCA TGCTAGGGGTGCTGAGGAACAAGGCTGTCTAGGATTGGACCCTCCATCCTGGACAGGGG TCTTGGGGAGGATGAGGCTGAGGCTGGATGATCAGTCTCTTTTTGGTTTCATGATCATT TAAAAACAGAAAAGACAACATTTACAGTCTTAAAAAATAGAAGTCTGAGGAGAGAA GCCAGAGTCTTGGGCCCGGGAGGCCCTCGAGGCCTCAGCATTCCCTGTCCCTTGAGGT CTGTCTGCAGGCCTGGCCACAGCACACGTGGCCCCGTATGGTCACTGGCCCGAGCCGTA NGGCCAGTTGAAGTACTCCCCGACAGCAGCATGTCTGTATCAGTGTCTCAATGGGCGT CTTCCCCACCAGCGCATGAAGAACAGCTGGGAGATGAGGGAGGCAGGGACCGCCGCA GGCGGGGAGCCGACGACAGCGCCCGAAGCGCTGGGGCTTGGGACGGTACTGCGCCC GCACATACTCGGTGAGGGCCACCTGCGCCTTCTCCTGCAGGCTCTCAACGTGGGGCGGT TCTGAGAGGGCACAGCCGTTCCGCCGAAAAACCGCAAGGCCCTTGAAGGCAGCATACT CGGCCCGGTGACCTGAAGGCGGCCATTTGTTCCCTGCTCCGGGAAGCCGCCCTGG TCCAGGAAAGCCCGGGCGCTCTGCGGCCAGCCCGCGTGGAGCCCGGGTGGCCATAAC CGGCCCTGGTGCCGGGCCCCCC</pre> |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_005234 |
| Insert Size: | 1980 bp |
| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| 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). |

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| 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> |