

Product datasheet for **MR206083**

Nr2f6 (NM_010150) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nr2f6 (NM_010150) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Nr2f6
Synonyms: AV090102; COUP-TF3; EAR2; Erbal2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR206083 representing NM_010150
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCATGGTGACCGGTGGCTGGGGCGACCCCGAGGCGACACGAACGGCGTGGACAAGGCTGGTGGGA
 GCTACCCACGCGCGACCGAGGACGATTCGGCGTCACCTCCCGGGCGACACGCGCGGAGCCGGGCGA
 CGAGGAGCGTCCGGGTTGCAGGTGGACTGCGTGGTGTGCGGGGACAAGTCCAGTGGAAAGCATTACGGC
 GTGTTACCTGCGAGGGCTGCAAGAGTTTCTTCAAGCGCAGCATCCGCCAATCTCAGTACACCTGCC
 GGTTCAACCGTGACTGTCAGATTGATCAGCACCACCGGAACAGTGTGACTGTGCGGCTCAAGAAGTG
 CTTCGGGTGGGCATGCGCAAGGAGGCCGTGCAGCGAGGCCGCATCCCGCATGCGCTCCCGGTCCAGCG
 GCCTGCAGTCCCCGGGCGCGACGGGCGTCAACCTTTACGGGGCCGCCAGTGTCCGAGCTGATTGCGC
 AGCTGCTGCGTGCTGAGCCCTACCCCGCGCGGACGCTTTGGTGGCGGCGGCGTGTACTGGGCATCGA
 CAACGTGTGCGAGTTGGCGGCACGCCTGCTGTTGAGCAGCGTGCAGTGGGCCCGCCACGCGCCCTTCTTC
 CCCGAGCTGCCGGCCGCGACAGGTGGCGTGTGCGGCTCAGTGGAGTGAGCTTTCGTTGCTGAACG
 CGGCGCAGGCGGCGTGCCGTCATACGGCACCCTGCTGGCCGCCCGGGGTTGCATGCCCGCCCAT
 GGCAGCCGAGCGGCGTGGCCTTCATGGACCAGTGCCTGCTCCAGGAGCAGTGGACAAGCTGGGC
 CGCTGCGAGTGGATGCTGCGGAGTACGGCTGCCTCAAGCCATCGCGCTTTCAGCCTGATGCCGTG
 GCCTTTCTGACCCAGCCATGTGGAGAGCCTGCAGGAGAAGGCACAGGTGGCCCTCACCGAGTATGTGCG
 TGCCAGTACCCATCGACGCCCCAGCGCTTTGGCGTCTGCTGCTGCGGCTGCCAGCCCTGCGTGTGTG
 CCCGCATCCCTCATCTCCAGCTCTTTCATGCGCCTGGTGGCAAGACACCCATCGAGACCCATCC
 GGGACATGCTTCTGTCAGGGAGCACCTTAACTGGCCCTATGGCTCGGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206083 representing NM_010150
Red=Cloning site Green=Tags(s)

MAMVTGGWDPGGDTNGVDKAGGSYPRATEDDSASPPGATSDAEPGDEERPLQVDCVVC GDKSSGKHYG
VFTCEGCKSFFKRSIRRNL SYTCRSNRDCQIDQHHRNQCYCRLKKCFRVGMRKEAVQRGRIPHALPGPA
ACSPPGATGVEPFTGPPVSELIAQLLRAEPYPAAGRFGGGGAVLGDNVCELAARLLFSTVEWARHAPFF
PELPAADQVALLRLSWSELFVLNAAQAALPLHTAPLLAAAGLHAAPMAAERAVAFMDQVRAFQEQVDKLG
RLQVDAAEYGLKAIALF TPDACGLSDPAHVESLQEKAQVALTEYVRAQYPSQPQRFGRLLLRLPALRAV
PASLISQLFFMRLVGKTP IETLIRDMLLSGSTFNWPYGS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9036_g07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_010150

ORF Size: 1170 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_010150.2](#), [NP_034280.2](#)

RefSeq Size: 2218 bp

RefSeq ORF: 1173 bp

Locus ID: 13864

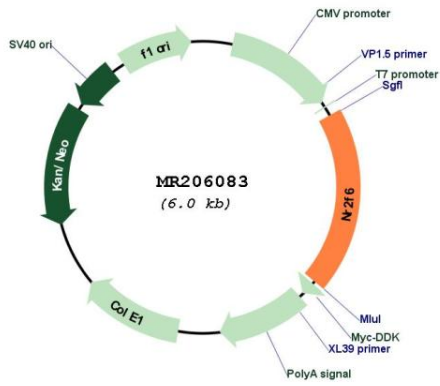
UniProt ID: [P43136](#)

Cytogenetics: 8 34.43 cM

MW: 42.4 kDa

Gene Summary: 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).
[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206083