

Product datasheet for MR206005

Nr2e1 (NM_152229) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nr2e1 (NM_152229) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nr2e1
Synonyms:	fierce; frc; Mtl1; MtlI; tailless; TLL; Tlx; XTLL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206005 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCAAGCCCCTGGATCAACAAGCCGATTTAGATATCCCTTGCAAAGTGTGTGGTGACCGCAGCT
CCGGGAAGCACTACGGGGTCTACGTTGCGACGGCTGCTCCGGATTCTCAAGAGGAGCATTCAAGGAA
TAGGACCTATGTCTGCAAGTCTGGAAACCAGGGAGGATGCCCGTAGACAAGACACAGAAACCAATGC
AGGGCGTGTGACTGAAGAAGTGTGGAAAGTCAACATGAACAAAGATGCCGTGCAGCAGCAGCGGGGTC
CTCGGACGTCCACCATCCGAAACAGGTGGCTCTCTACTCCGTGGACACAAGGAAGACAATGGGGCCGC
TGCGCACTTCCCCTCCACGGCGCTGCCAGCCCCCTGCTTTCTTACAGCGGTACGCAGCTGGAGCCGCAC
GGTCTGGAGTTGGCCGCTGTGTCTGCCACTCCTGAACGGCAGACTCTCGTGAGCCTGGCTCAGCCACGC
CCAAGTATCCCCATGAAGTGAATGGGACCCCAATGTATCTCTACGAAGTGGCCACTGAGTCCGTGTGTGA
ATCAGCTGCCAGGCTTCTTTATGAGCATCAAGTGGGCAAAGAGTGTGCCAGCCTTTCCACTTTGTCT
TTACAAGATCAGCTGATGCTTTTGAAGACGCGTGGAGAGAAGTGTGTTCTAGGAATAGCACAATGGG
CCATTCGGTTGATGCTAACACTCTACTGGCTGATCTGGCATGAATACTGACAACACAGACTCCCAGAA
GCTGAACAAGATCATATCTGAAATACAGGCTTTGCAAGAGTGGTGGCTCGGTTCCAGACAGCTCCGATTA
GACGCCACTGAATTTGCCTGTGAAATGTATTGTCACCTTTCAAAGCTGTTCTACACACAGTGGTCTG
AACTGAGAAGTTTCCGGAATGCTGCCGCAATTGCCGCTCTCAAGATGAGGCTCAGTAACTCTCAACAG
CTACATTCATACCAGATACCCCAACCCCTGCCGATTCCGGGAAACTCCTGTTGCTTTTACCAGCTTTA
CGGTCAATTAGCCATCTACCATAGAAGAAGTGTTTTTCAAAAAAACCATCGGCAATGTGCCGATTACAA
GACTACTTTCAGATATGTACAAATCCAGTGACATC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

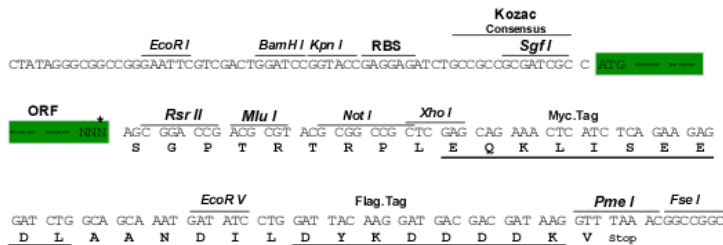
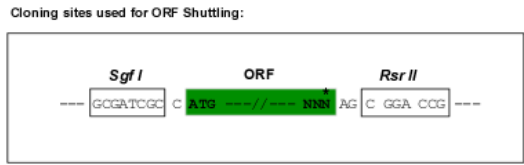
Protein Sequence: >MR206005 protein sequence
Red=Cloning site Green=Tags(s)

MSKPAGSTSRILDIPCKVCGDRSSGKHYGVYACDGC SGFFKRSIRRRTYVCKSGNQGGCPVDKTHRNQC
 RACRLKKCLEVNMNKDAVQHERGPRTSTIRKQVALYFRGHKEDNGAAAHFPSTALPAPAFFTAVTQLEPH
 GLELAAVSATPERQTLVSLAQTPKYPHEVNGTPMYLYEVATESVCESAARLLFMSIKWAKSVPAFSTLS
 LQDQLMLLEDAWRELFVLGIAQWAI PVDANTLLAVSGMNTDNTDSQKLNKII SEIQALQE VVARFRQLRL
 DATEFACLKCI VTFKAVPTHSGSELRSFRNAAAIAALQDEAQLTLNSYI HTRYPTQPCRFGKLLLLL PAL
 RSISPSTIEEVFFKKTIGNVPITRLLSDMYKSSDI

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_152229

ORF Size: 1158 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_152229.3](#)

RefSeq Size: 3233 bp

RefSeq ORF: 1158 bp

Locus ID: 21907

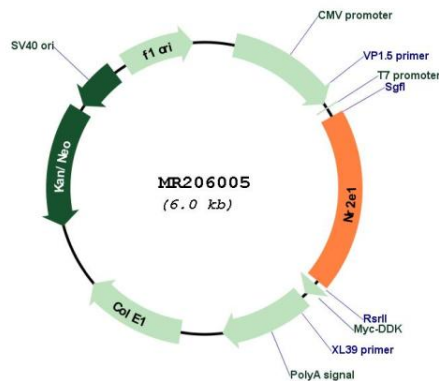
UniProt ID: [Q64104](#)

Cytogenetics: 10 22.89 cM

MW: 42.6 kDa

Gene Summary: Orphan receptor that binds DNA as a monomer to hormone response elements (HRE) containing an extended core motif half-site sequence 5'-AAGGTCA-3' in which the 5' flanking nucleotides participate in determining receptor specificity (By similarity). Regulates cell cycle progression in neural stem cells of the developing brain. Involved in the regulation of retinal development and essential for vision. During retinogenesis, regulates PTEN-Cyclin D expression via binding to the promoter region of PTEN and suppressing its activity. May be involved in retinoic acid receptor (RAR) regulation in retinal cells.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206005