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Product datasheet for MG206005

Nr2e1 (NM_152229) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nr2e1 (NM_152229) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nr2e1
Synonyms:	fierce; frc; Mtl1; Mtll; tailless; TLL; Tlx; XTLL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG206005 representing NM_152229
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCAAGCCCGCCGGATCAACAAGCCGCATTTTAGATATCCCTTGCAAAGTGTGTGGTGACCGCAGCT
CCGGGAAGCACTACGGGGTCTACGCTTGCGACGGCTGCTCCGGATTCTTCAAGAGGAGCATTCGAAGGAA
TAGGACCTATGTCTGCAAGTCTGGAAACCAGGGAGGATGCCCCGTAGACAAGACACACAGAAACCAATGC
AGGGCGTGTCGACTGAAGAAGTGTTTGGAAGTCAACATGAACAAAGATGCCGTGCAGCACGAGCGGGGTC
CTCGGACGTCCACCATCCGCAAACAGGTGGCTCTCTACTTCCGTGGACACAAGGAAGACAATGGGGCCGC
TGCGCACTTCCCCTCCACGGCGCTGCCAGCCCCTGCTTTCTTCACAGCGGTCACGCAGCTGGAGCCGCAC
GGTCTGGAGTTGGCCGCTGTGTCTGCCACTCCTGAACGGCAGACTCTCGTGAGCCTGGCTCAGCCCACGC
CCAAGTATCCCCATGAAGTGAATGGGACCCCAATGTATCTCTACGAAGTGGCCACTGAGTCCGTGTGTGA
ATCAGCTGCCAGGCTTCTCTTTATGAGCATCAAGTGGGCAAAGAGTGTGCCAGCCTTTTCCACTTTGTCT
TTACAAGATCAGCTGATGCTTTTGGAAGACGCGTGGAGAGAACTGTTTGTTCTAGGAATAGCACAATGGG
CCATTCCGGTTGATGCTAACACTCTACTGGCTGTATCTGGCATGAATACTGACAACACAGACTCCCAGAA
GCTGAACAAGATCATATCTGAAATACAGGCTTTGCAAGAGGTGGTGGCTCGGTTCAGACAGCTCCGATTA
GACGCCACTGAATTTGCCTGTCTGAAATGTATTGTCACTTTCAAAGCTGTTCCTACACACAGTGGTTCTG
AACTGAGAAGTTTCCGGAATGCTGCCGCCATTGCCGCTCTCCAAGATGAGGCTCAGCTAACTCTCAACAG
CTACATTCATACCAGATACCCCACCCAACCCTGCCGATTCGGGAAACTCCTGTTGCTTTTACCAGCTTTA
CGGTCAATTAGCCCATCTACCATAGAAGAAGTGTTTTTCAAAAAAACCATCGGCAATGTGCCGATTACAA
GACTACTTTCAGATATGTACAAATCCAGTGACATC

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

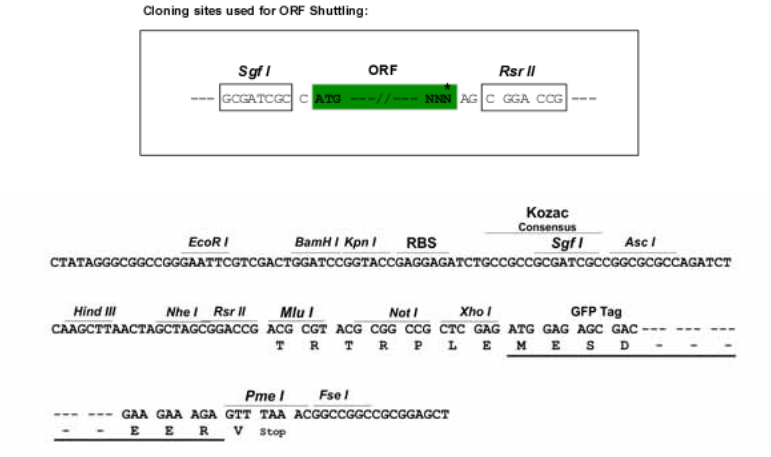
>MG206005 representing NM_152229
Red=Cloning site Green=Tags(s)

MSKPAGSTSRILDIPCKVCGDRSSGKHYGVYACDGCSGFFKRSIRRNRTYVCKSGNQGGCPVDKTHRNQC
RACRLKKCLEVNMNKDAVQHERGPRTSTIRKQVALYFRGHKEDNGAAAHFPSTALPAPAFFTAVTQLEPH
GLELAAVSATPERQTLVSLAQPTPKYPHEVNGTPMYLYEVATESVCESAARLLFMSIKWAKSVPAFSTLS
LQDQLMLLEDAWRELFVLGIAQWAIPVDANTLLAVSGMNTDNTDSQKLNKIISEIQALQEVVARFRQLRL
DATEFACLKCIVTFKAVPTHSGSELRSFRNAAAIAALQDEAQLTLNSYIHTRYPTQPCRFGKLLLLLPAL
RSISPSTIEEVFFKKTIGNVPITRLLSDMYKSSDI

SGPTRTRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_152229

ORF Size: 1155 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_152229.3

RefSeq Size: 3233 bp

RefSeq ORF: 1158 bp

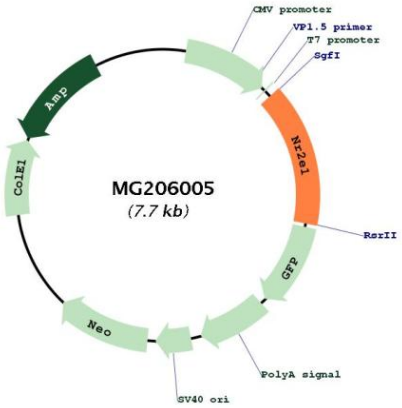
Locus ID: 21907

UniProt ID: Q64104

Cytogenetics: 10 22.89 cM

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 rhe 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 MG206005