

Product datasheet for **MG226242**

Nrl (NM_001136074) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nrl (NM_001136074) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nrl
Synonyms:	D14H14S46E
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226242 representing NM_001136074 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTTCCCTCCAGTCCCTTGGCTATGGAATATGTTAATGACTTTGATTTGATGAAGTTCGAAATAA
AGCGGGAGCCTTCTGAGGGCCGATCTGGAGTCCCCACAGCCTCGTTGGGCTCCACACCATACAGCTCGGT
GCCTCCTTCACCACCTTCAGTGAGCCAGGCATGGTGGTGGTGGCGAGGCCCTAGGCCAGGCCTGGAG
GAGCTATATTGGCTGGCCACCCTGCAGCAGCAGCTGGGTGGATGAGGTTCTCGGGCTGAGTCCCGACG
AAGCTGTGGAGCTGCTGCAGAACCAGGGTCCTGTCTCTATGGAAGGCCCTTTGGCTACTATTAGGGAG
CCCGGGAGAGACAGGAGCCAGCATGTCCAGCTGCCGAGAGATTTTCGGACGCCGCGCTGGTCTCGATG
TCTGTGCGCGAGTTGAACCGGCAGCTGCGGGGCTGCGGGCGCGACGAGGCTCTGCGGCTGAAGCAGAGGC
GCCGCACGCTCAAGAACCGCGGCTACGCTCAGGCTTGTGCTCCAAGCGGCTGCAACAGCGGCGCGGGCT
GGAGGCAGAGCGCGCTCGCTGGCCGCCAGCTGGATGCCCTGCGGGCCGAGGTGGCAGCGCTGGCTCGC
GAGCGCACCTCTATAAGGCCGCTGTGACCGGCTGACCTCCGGCGGCCCTGGGTCCGACGACCACACAC
ACCTCTTCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG226242 representing NM_001136074
 Red=Cloning site Green=Tags(s)

MAFPSPPLAMEYVNDLDMKFEEKREPSEGRSGVPTASLGSTPYSSVPPSPPTFSEPGMVGGGEAPRPGLE
 ELYWLATLQQQLGSDEVLLSPDEAVELLQNQGPVSMGEPGLGYSGSPGETGAQHVQLPERFSDAALVSM
 SVRELNRLRGCCRDEALRLKQRRRTLKNRGYAQACRSKRLQRRGLEAERARLAAQLDALRAEVARLAR
 ERDLYKARCDRLTSGGPGSDDHHLFL

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001136074

ORF Size: 711 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_001136074.2](#), [NP_001129546.1](#)

RefSeq Size: 1982 bp

RefSeq ORF: 714 bp

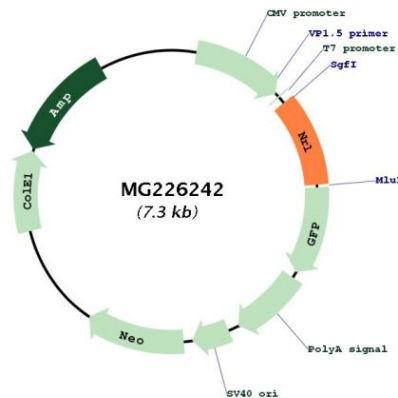
Locus ID: 18185

UniProt ID: [P54846](#)

Cytogenetics: 14 28.19 cM

Gene Summary: This gene encodes a member of the basic leucine zipper domain family of transcription factors. The encoded protein is preferentially expressed in the retina and is necessary for rod photoreceptor development. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2012]

Product images:



Circular map for MG226242