

Product datasheet for **RG202237**

NRL (NM_006177) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NRL (NM_006177) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NRL
Synonyms:	D14S46E; NRL-MAF; RP27
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202237 representing NM_006177 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCTGCCCCCAGCCCCCTGGCCATGGAATATGTCAATGACTTTGACTTGATGAAGTTTGAGGTAA
AGCGGGAACCTCTGAGGGCCGACCTGGCCCCCTACAGCCTCACTGGGCTCCACACCTTACAGCTCAGT
GCCTCCTCACCCACCTTCAGTGAACCAGGCATGGTGGGGCAACCGAGGGCACCCGGCCAGGCCTGGAG
GAGCTGTACTGGCTGGCTACCCTGCAGCAGCAGCTGGGGCTGGGAGGCATTGGGGCTGAGTCTGAAG
AGGCCATGGAGCTGCTGCAGGGTCAGGGCCAGTCCCTGTTGATGGGCCCATGGCTACTACCCAGGGAG
CCCAGAGGAGACAGGAGCCAGCACGTCCAGCTGGCAGAGCGGTTTTCCGACGCGGCGCTGGTCTCGATG
TCTGTGCGGGAGCTAAACCGGCAGCTGCGGGGCTGCGGGCGCGACGAGGCGCTGCGGCTGAAGCAGAGGC
GCCGCAGCTGAAGAACC GCGGCTACGCGCAGGCCTGTCGCTCCAAGCGGCTGCAGCAGCGGCGCGGGCT
GGAGGCCGAGCGCGCCCGCTGGCCGCCAGCTGGACGCGCTGCGGGCCGAGGTGGCCCGCTGGCCCGG
GAGCGGATCTCTACAAGGCTCGCTGTGACCGGCTAACCTCGAGCGGCCCGGGTCCGGGACCCCTCCC
ACCTCTTCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202237 representing NM_006177
 Red=Cloning site Green=Tags(s)

MALPPSPLAMEYVNDFDLMKFEVKREPSEGRPGPPTASLGSTPYSSVPPSPTFSEPGMVGATEGTRPGLE
 ELYWLATLQQQLGAGEALGLSPEEAMELLQGQGPVPVDGPHGYYPGSPEETGAQHVQLAERFSDAALVSM
 SVRELNRQLRGCGRDEALRLKQRRRTLKNRGYAQACRSKRLQRRGLEAERARLAAQLDALRAEVARLAR
 ERDLYKARCDRLTSSGPGSGDPSHLFL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_006177

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.

RefSeq: [NM_006177.5](#)

RefSeq Size: 2102 bp

RefSeq ORF: 714 bp

Locus ID: 4901

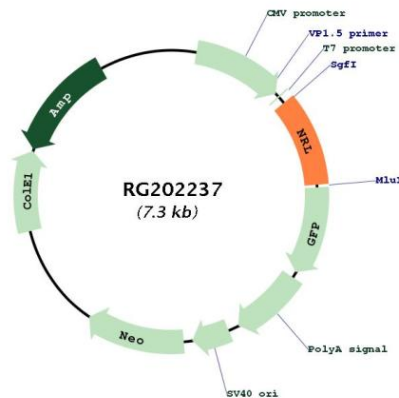
UniProt ID: [P54845](#)

Cytogenetics: 14q11.2-q12

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: This gene encodes a basic motif-leucine zipper transcription factor of the Maf subfamily. The encoded protein is conserved among vertebrates and is a critical intrinsic regulator of photoceptor development and function. Mutations in this gene have been associated with retinitis pigmentosa and retinal degenerative diseases. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG202237