

## Product datasheet for **SC125982**

### NRL (NM\_006177) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NRL (NM_006177) Human Untagged Clone
Tag:	Tag Free
Symbol:	NRL
Synonyms:	D14S46E; NRL-MAF; RP27
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_006177 edited  
GAGCTGAGCAGAGGCACCCAGGCCCTGCTCCATGGAGCCTTCAGTCTCCTGGGAAGCTGTG  
CCTGTCTGGCTCTGGCACTGACCACATCCTCTCGGCCATTTCTGAAGTGAAGTCACTCCCA  
GCCCAGCTCCAGAATGGCCCTGCCCCAGCCCCCTGGCCATGGAATATGTCAATGACTT  
TGACTTGTGAAGTTTGGGTAAGCGGGAACCTCTGAGGGCCGACCTGGCCCCCTAC  
AGCCTCACTGGGCTCCACACCTTACAGCTCAGTGCCTCCTTACCACCTTCAGTGAACC  
AGGCATGGTGGGGCAACCGAGGGCACCCGGCCAGGCCTGGAGGAGCTGTACTGGCTGGC  
TACCCTGCAGCAGCAGCTGGGGGCTGGGGAGGCATTGGGGCTGAGTCTGAAGAGGCCAT  
GGAGCTGCTGCAGGGTCAAGGGCCAGTCCCTGTTGATGGGCCCCATGGCTACTACCAGG  
GAGCCCAGAGGAGACAGGAGCCCAGCACGTCCAGCTGGCAGAGCGGTTTTCCGACGCGG  
GCTGGTCTCGATGTCTGTGCGGGAGCTAAACCGGCAGCTGCGGGGCTGCGGGCGGACGA  
GGCGCTGCGGCTGAAGCAGAGGCCCGCACGCTGAAGAACCAGCGGCTACGCGCAGGCCTG  
TCGCTCCAAGCGGCTGCAGCAGCGGGCGGGGCTGGAGGCCGAGCGCGCCCGCTGGCCGC  
CCAGCTGGACGCGCTGCGGGCCGAGGTGGCCCGCCTGGCCCGGAGCGCGATCTCTACAA  
GGCTCGCTGTGACCGGCTAACCTCGAGCGGCCCGGGTCCGGGGACCCCTCCCACCTCTT  
CCTCTGAGCCGTTTCAAGCACCTTGTGGTGTAGTGGGGGCTGGGTGGGGTGGCTCCGCC  
AGGAGCGGCTGCACGGTTCTTGCATCGTTACCAGAGCGCCTTCTGGTCTAGCCACGC  
CCTGTATGACCGGCAAAATATCCCCAAAGCTTTTGGGTCTCAAGTCATGCCGAATTTA  
GATGCTGGTCATTTTCTGGAGAGGGGTCCCTCCCTTACGAACACAGAAACCCAGCCCA  
CATGACTAGCACGCTGAGCTCTGCAGGGACCAAGTCCAGGCACTGGGGGTGGAAGTGTG  
GTGACACAGTGAATGGGAGGTGGAGGAGGTTGCAGCTCCACCTCAGTTTATGTTTTTAA  
TTCAGGGTTTTCAACCTGTAACACATTAAGCTGTAATTAGCAAAAAAAAAAAAA



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_006177 unedited CAAATATTGTATACGACTTATATAGGCGGACCGCGAATCANATCTGGTACCGGTCCGGAA TTCCCGGGATATCGTCGACCCACGCGTCCGGAGCTGAGCAGAGGCACCAGGCCCTGCTCC ATGGAGCCTTCAGTCTCCTGGGAAGCTGTGGCTGTCTGGCTCTGGCACTGACCACATCCT CTCGGCCATTTCTGAAGTGCACCTCTCCAGCCAGCTCCAGAATGGCCCTGCCCCCAG CCCCTTGCCATGGAATATGTCAATGACTTTGACTTGATGAAGTTTGAGGTAAGCGGGA ACCCTCTGAGGGCCGACCTGGCCCCCTACAGCCTCACTGGGCTCCACACCTTACAGCTC AGTGCTCCTTACCCACCTTCAGTGAACCAGGCATGGTGGGGCAACCGAGGGCACCCG GCCAGGCCTGGAGGAGCTGTACTGGCTGGCTACCCTGCAGCAGCAGCTGGGGGCTGGGGA GGCATTGGGGCTGAGTCCTGAAGAGGCCATGGAGCTGCTGCAGGGTCAGGGCCCAGTCCC TGTTGATGGGCCCATGGCTACTACCCAGGGAGCCAGAGGAGACAGGAGCCCAGCACGT CCAGCTGGCAGAAGCGTTTTCCGACGCCGCGTGGTCTCGATGTCTGTGCCGGAGCTAAA CCGGCAGCTGCNNGGCTGCGGGCGCAGAGGGCTGCNGCTGAAGCAGAAGCGCCGCAC GCTGAAGACCCGCGCTACGCGCAGGCCTGTCGCTCCAAGCGCTGCAGNCACGCGGGCT GGAGCCCAGCGCCCCGCTGGNCGCCCAGCTGACCGCTGCGGNCCGAGGTGCCCCGCTGG CCGGAGCGCGATCTCTACAGGCTCGCTGTGACCGGCTAACTCGAGCGGCCCCCGTCCGG GGACCCCTCCACCTTCTCTGAGCCGTAGAGCACTGTGTGA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_006177
<b>Insert Size:</b>	1600 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_006177.2</a> , <a href="#">NP_006168.1</a>
<b>RefSeq Size:</b>	2102 bp
<b>RefSeq ORF:</b>	714 bp
<b>Locus ID:</b>	4901
<b>UniProt ID:</b>	<a href="#">P54845</a>
<b>Cytogenetics:</b>	14q11.2-q12
<b>Protein Families:</b>	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]