

## Product datasheet for **MC221126**

### **Nrros (NM\_146069) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nrros (NM_146069) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nrros
Synonyms:	E430025L02Rik; Lrcc33; Lrrc33
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC221126 representing NM\_146069  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCAGGAGCCTTTGGAGACTGGAAGCATTGAATCCTCTGGAAGTGGCAATGTTGTTGTGAGCCACCAGA  
 GAGCTGTGCCTGAGATGGAGTCCCGCCCTCTGGCTTTGCCTGGGTTTTCACTTCTTATTGTGGAATG  
 GAGGAGCGGACCTGGGACAGCCACTGCAGCTTCCCAAGGAGGCTGCAAGGTGGTCGACGGAGTCGCTGAC  
 TGCCGGGGTCTGAACCTTGCTTCGGTACCCAGCAGCCTCCACCCCATTCGCGGATGCTCATTCTGGATG  
 CTAACCTCTCAAGGACCTGTGGAACCTCCCTCCAGGCCTACCCACGCCTGGAGAACCTCAGCCTGCA  
 TAGCTGTACCTGGACCTATCAGCCACTACGCCCTCCGAGAGCAAGGCCACTTACGCAACCTGGTTCTG  
 GCAGACAACCGCCTCTCGGAGAACTACAAGGAGTACGCCGAGCACTCCACCCCTGCTGGGACTTCGGA  
 GACTGGACTTGTCTGAAACTCCCTGACCGAAGACATGGCGGCTCTCATGCTTCAGAACCTCTCCTCGTT  
 GGAGTTGTGCTTGGCAAGGAATACCCTCATGAGGCTCGACGACTCTATCTTTGAGGGCTGGAACAC  
 CTTGTAGAGCTAGATTTGCAGAGAACTACATCTTTGAGATCGAGGGCGGGCGTTTGACGGCTTACTG  
 AGCTGAGGCGTCTCAACCTTGCTATAACAACCTCCCCTGCATTGTGGACTTCAGCCTCACCCAGTTACG  
 GTTCTCAACGTCAGTTAATCCTTAGAGTGGTTCTGGCAGCCAGGGAGGAGGTGGCCTTCGAATTG  
 GAGATACTGGACCTGTCTACAACAGCTGCTCTTCTCCCACTTTCCTCAGTGCAGCAAGCTGCACA  
 CCCTCTGCTCCAGGACAACAACATGGGCTTCTACAGGGAGCTTTACAACACCTCCTCCCGCAGGAGAT  
 GGTGGCCAGTTCTTCTGTGGACGGCAATGTGACTAACATCACAACCTGCAACCTCTGGGAGGAGTTT  
 TCCTCCAGCGACTGTGAGCTTTCGCTTCCTGGACATGAGCCAAAACAGTTCGGGCACTTCCCGGATG  
 GTTCTCTGAAGAAGACACTTCCCTTTCCACCTGAACCTCAACCAGAAGTGCCTGAAGATGCTCCACAT  
 CCGGGAGCACGAGCCCGCGGAGCACTACCGAGCTGGATCTGAGCCACAACAGTTGGCAGAGCTGCAC  
 CTGGCTCCGGGGCTCACGGGCTCCCTCAGGAACCTCCGGGTGTTCAACCTGAGTTCCAACAGCTCCTGG  
 GGTCCCCACTGGCCTTTTCGACAATGCCAGCAGCATCACTACAATCGACATGAGTCACAATCAGATCTC  
 ACTTTGCTCAGATGGTGCCCGTAGACTGGGAGGGGCCCTCCAGTTGTGTGGATTTAGAAACATGGGC  
 TCTTTGAGGAGCCTTCTCTGGACGGCTGTGGGCTGAAGGCATTACAAGACTGCCCGTTCAGGGGACCT  
 CCCTCACTCATTAGACCTGTCTAGCAACTGGGGGTTCTGAATGGGAGCATCAGCCCTCTCTGGGCTGT  
 TGCCCGACATTACAGGTCCTGTCTCAGGGACGTGGGCCTTGGTTCTGGCGCTGCAGAGATGGACTTC  
 TCTGCGTTTGGGAATCTCGGGCGTTGGATCTGTGCGGAAACTCCCTGACCAGCTTCCCAAAGTTCAAGG  
 GCAGTTTGGCCCTTCGGACTCTCGACCTCCGAGAAACTCTCTCACGGCCCTCCCTCAGAGGGTTGTGTC  
 CGAGCAGCCTCTGAGGGGTCTGCAGACCATCTACCTCAGCCAGAACCCTTATGACTGCTGTGGGGTGGAA  
 GGATGGGGGGCCCTGCAGCAGCACTTCAAGACTGTTGCGGACTTGTCCATGGTCACTTGCAACCTCTCT  
 CCAAGATCGTCCGTGTGGTGGAGCTGCCGAAGGCCTGCCTCAGGGCTGTAAGTGGGAACAGGTGGACAC  
 TGGTCTCTTACCTCGTCTATCCTGCCAGCTGCCTCACCTGCTGGTGGCTGACTGTGCTCTTC  
 CTCACCTTTAAGAAGCCTTGTTCAGGTATCAAGAGCCGCTGCCACTGGTCTCCATATACT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_146069

**Insert Size:** 2166 bp

**OTI Disclaimer:** 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>	<u>NM_146069.4, NP_666181.2</u>
<b>RefSeq Size:</b>	3559 bp
<b>RefSeq ORF:</b>	2082 bp
<b>Locus ID:</b>	224109
<b>UniProt ID:</b>	<u>Q8BMT4</u>
<b>Cytogenetics:</b>	16 B2
<b>Gene Summary:</b>	<p>Key regulator of transforming growth factor beta-1 (TGFB1) specifically required for microglia function in the nervous system (PubMed:29909984). Required for activation of latent TGF-beta-1 in macrophages and microglia: associates specifically via disulfide bonds with the Latency-associated peptide (LAP), which is the regulatory chain of TGFB1, and regulates integrin-dependent activation of TGF-beta-1 (PubMed:29909984). TGF-beta-1 activation mediated by LRRC33/NRROS is highly localized: there is little spreading of TGF-beta-1 activated from one microglial cell to neighboring microglia, suggesting the existence of localized and selective activation of TGF-beta-1 by LRRC33/NRROS (PubMed:29909984). Indirectly plays a role in Toll-like receptor (TLR) signaling: ability to inhibit TLR-mediated NF-kappa-B activation and cytokine production is probably a consequence of its role in TGF-beta-1 signaling (Probable).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript. Variants 1 and 2 encode the same isoform (2). ##RefSeq-Attributes-START## CDS uses downstream in-frame AUG :: upstream AUG and CDS extension is not conserved ##RefSeq-Attributes-END##</p> <p>COMPLETENESS: complete on the 3' end.</p>