

Product datasheet for **RN204029**

Nrros (NM_001024995) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nrros (NM_001024995) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Nrros
Synonyms:	Garpl1; Lrrc33; RGD1310771
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN204029 representing NM_001024995
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGTTCCTGCCCTGTGGCTTTCCTGGGTTTCACTTCTTGATTGTGGAATGGAGGAGCGGACGTG
 GGACAGCTACTGCAGCTTCCAAGGAGGCTGCAAGGTGGTCGACCGAGTCGCTGACTGCCGAGTCTGAA
 CCTCGCTTCAGTACCCAGCGCCCTCCCGCCATTCCCGATGCTCGTTCTGGATGCCAACCTCTCAGG
 GTTCTGTGGAATCATTCCCTCCAGGCCTACCCACGCTGGAGGACCTCAGCCTGCACAGCTGTCACCTGG
 ACCGTATCAGCCACTGGGCTTCCATGAGCAAGGCCACTTACAAAACCTGGTTCTGGCAGACAACCCCT
 CTCCGAGAACAAGGAGTCGGCCACAGCTCTCCACACCCTGCTGCGACTTCGAAGACTGGACTTGTCT
 GGAACCTCCCTGACAGAAGACATGGCAGCTCTCATGCTTCAAGACCTCTCCTCATTGGAGGTCGTCTCT
 TGGCAAGAAATACCTCATGAGGCTCGACGACTCTGTCTTCGAGGGCCTGGAGCGCTCGTGGAGCTGGA
 TTTGCAGAGAAACTACATCTTTGAGATCGAGGGCGGTGCGTTTGACGGCTTGACTGAGCTGAGGCGTCTC
 AACCTTGCTACAACAACCTCCCCTGCATCGTGGACTTACGCTCACACAGTTGCGGTTCCCTCAAGTCA
 GTTACAACATCCTGGAGTGGTTCCTGGCAGCCAGGGAAGAGGCGCCCTCGAACTGGAGATACTGGACCT
 GTCTACAACAGCTGCTTCTTCCCGCTCCTGCCTCAGTGTGGCAAGCTGCACACGCTCCTGCTGCAG
 GACAACAGCATGGGCTTCTACAGGGAGCTTACAACACCTCCTCCACAGGAGATGGTGGCCGAGTTCC
 TTCTCGTGGATGGTAATGTTACTAATATCAACAACCGTCAGCCTCTGGGAGGAGTTCTCCTCCAGCGACT
 GTCAGCGCTTCGCTTCTGGACATGAGCCAAAACAGTTGCGGCACCTGCCGATGGTTCCTGAAGAAA
 ACGCTTCCCTTCCACCTGAACCTCAACAAAATTGCCTGACGAAGCTCCACATTCGGGAGCAGGAGC
 CGCCGGGAGCGCTCACTGAGCTGGATCTGAGCCGCAACCAGCTGGCAGAAGTGCCTTGGCCCTGGGCT
 CACTGGTTCCTCAAGAACCTCAGAGTGTCAACCTGAGCTCCAACCAGCTCCTGGGAGTCCCACTGGC
 CTTTTCCACAGCGCCAGCAGCATCACTACACTTGACATGAGCCACAATCAGATCTCACTTTGCCCCAGA
 CAGTGCCTTAGACTGGGAGGAGCCCTCCAGTTGTGTGGATTTAGAAACATGGCCTCTTTGAGGAGCT
 TTCTCGGATGGCTGTGGGCTGAAGGCATTACAAGACTGCCCATTCAGGGGACCTCCCTCACTCATTTA
 GATCTGTCTAGCAACTGGGGATTCTGAATGGGAGCGTCAGCCCTCTCTCGGCTGTTGCCCTACATTAC
 AGGTCCTGTCTCAGGAACGTGGGCTTGGTTCTGGCGTGCAGAGATGGACTTCTCTGGGTTTGGGAA
 TCTGAGGGAGTTGGATCTGTGAGAAATCCCTGACCAGCTTCCCAAGTTCAAGGGCAGTTCGGCCCTG
 CAGACTCTGACCTCCGAGAAACTCTCTCACAGCCCTACCTCAGAGGTTGTGTGGAGCAGCCTCTGA
 GGGTCTGCAGACCATCTACCTCAGCCAGAACCTTATGACTGCTGTGGGTGGAGGGATGGGGGGCCCT
 GCAGCACTTCAAGACTATTGCGGACCTGTCCATGGTCACTTGCAACCTCTCTTCCAGATCATTCGTGTG
 GTAGAGCTGCCAGAGGCATACCTCAGGACTGTAAGTGGGGGAGGTGGACACTGGTCTATTCTACCTCG
 TGCTCATCTGCCAGCTGCCTCACCTGCTGGTGGCCAGCACCCTCATCTTCTCACTTTAAGAAGCC
 TTTGCTTCAGGTCATCAAGAGCCGCTGTCACTGGTCTCCATATACT**GA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001024995
- Insert Size:** 2079 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).
- 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:	<ol style="list-style-type: none">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:	<u>NM_001024995.1</u> , <u>NP_001020166.1</u>
RefSeq Size:	2505 bp
RefSeq ORF:	2079 bp
Locus ID:	303875
UniProt ID:	<u>Q5BK65</u>
Cytogenetics:	11q22
Gene Summary:	<p>Key regulator of transforming growth factor beta-1 (TGFB1) specifically required for microglia function in the nervous system. 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. 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. 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.[UniProtKB/Swiss-Prot Function]</p>