

## Product datasheet for MC205444

### Nod1 (NM\_172729) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nod1 (NM_172729) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nod1
Synonyms:	C230079P11; Card4; F830007N14Rik; Nlrc1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC042670

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CGGACGCGTGGGTCGACCCACGCGTCCGGCCAGCTCCTGATCCCCGACCGGAGCGGTAGCGCCCTCCCT
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GCCAGTCTTACGAATTTTCCACCTTACGCTCCAGGCCTTCTTACCAGCCTTCTTCTGGTAGCAGATGA
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TTTAAACGTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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- Restriction Sites:** RsrII-NotI
- ACCN:** NM\_172729
- Insert Size:** 2862 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:**

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:** [BC042670](#), [AAH42670](#)

**RefSeq Size:** 4182 bp

**RefSeq ORF:** 2862 bp

**Locus ID:** 107607

**UniProt ID:** [Q8BHB0](#)

**Cytogenetics:** 6 B3

**Gene Summary:** Enhances caspase-9-mediated apoptosis. Induces NF-kappa-B activity via RIPK2 and IKK-gamma. Confers responsiveness to intracellular bacterial lipopolysaccharides (LPS). Forms an intracellular sensing system along with ARHGEF2 for the detection of microbial effectors during cell invasion by pathogens. Recruits NLRP10 to the cell membrane following bacterial infection (By similarity).[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.