

## Product datasheet for **MC223060**

### Nos3 (BC052636) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Nos3 (BC052636) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Nos3  
**Synonyms:** eNOS, ecNOS  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >BC052636  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGCAACTGAAGAGTGTGGGCCAGGAGCCTGGGCCACCCTGTGGCCTAGGGCTCGGGCTGGGTTT  
 GGCTGTGGCGCAAGCAGGGCCAGCCTCTCCAGCACCGGAGCCTAGCCAGGCGCCAGCACCCCGTCCCC  
 AACCCGACCAGCACCAGACCACAGCCCCCGCTAACCCGCCCCCAGACGGACCCAGGTTTCTCGAGTA  
 AAGAATTGGGAAGTGGGCAGCATCACCTACGACACCCTCAGTGCCAGGCTCAGCAGGATGGGCCCTGTA  
 CCTCAAGACGCTGCTTGGGATCCCTGGTGTTCGAAGGAAGTTACAGAGCCGGCCACCCAGGGCCCTTC  
 ACCCACTGAGCAGCTATTGGGTCAAGCCCGGGACTTCAATCAATCAGTACTATAACTCCATCAAAGGAGT  
 GGCTCCCAGGCTCATGAGCAGCGGCTTCAGGAAGTGGAGGCTGAGGTGGCAGCCACAGGCACCTACCAGC  
 TCCGGGAGAGCGAGCTGGTGTGGGGCCAAGCAGGCCTGGCGCAATGCTCCCCGCTGTGTGGGCCGGAT  
 CCAGTGGGAAAGCTGCAGGTAATTTGATGCTCGGGACTGCAGGACTGCACAGGAAATGTTACCTACATC  
 TGTAACCACATTAATAACGCAACAAATAGAGGCAATCTTCGTTACGCCATCACAGTGTCCCCCAGCGCT  
 GCCCTGGCCGGGAGACTTCCGGATCTGGAACAGCCAGCTGATACGCTATGCGGGCTATAGGCAGAGGA  
 TGCTCCGTGCGAGGGGACCCCGCAACGTGGAGATCACTGAGCTCTGTATCCAACATGGCTGGACCCCA  
 GGAAATGGCCGCTTTGATGTGCTGCCCTGTTACTCCAGGCTCCTGATGAGCCCCAGAACTCTTCACTC  
 TGCCCCCAGAGATGGTCCTCGAGGTGCCTCTGGAGCACCCACGCTCGAGTGGTTTGTGCCCTTGGCT  
 GCGCTGGTATGCCCTCCAGCTGTGTCCAACATGCTGCTAGAAATCGGGGCTGGAGTTTCTGCTGCC  
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 AGCGGTGAAATTAATGTGGCCGTGTTGCACAGTTACCAGCTGGCCAAAGTGACCATAGTGACCACCAC  
 GCCGCCACAGCCTCCTTCATGAAGCACCTGAAAATGAGCAGAAGGCCAGAGGGGCTGCCCTGCCGATT  
 GGGCCTGGATTGTGCCCCCATCTCAGGCAGCCTAACTCCTGTCTTCCATCAAGAGATGGTCAACTATTT  
 CCTGTCCCTGCCTTCCGCTACCAGCCAGACCCCTGGAAGGGAAGTGCAGCAAAGGGGGCAGGCATCACC  
 AGGAAGAAGACCTTTAAGGAAGTAGCCAATGCAGTGAAGATCTCTGCCTCACTCATGGGCAGGATGATGG



CGAAGCGTGTGAAGGCAACCATTCTGTATGGCTCTGAGACTGGCCGGGCCAGAGCTACGCACAGCAGCT  
 GGAAGACTCTCCGGAAGGCGTTTATCCCGGGTCTGTGCATGGATGAGTATGATGTGGTGTCCCTA  
 GAGCAGGAGGCACTGGTGTGGTGGTGACCAGCACATTTGGCAATGGGGATCCTCCGGAGAATGGAGAGA  
 GCTTTGCAGCAGCGCTCATGAAATGTCAGGCCGTACAACAGCTCCCTAGGCCAGCAGCACAAGAG  
 CTACAAAATCCGATTCAACAGTGTCTCTGCTCAGACCCACTGGTATCCTCTTGGCGGCCAAGAGGAAG  
 GAGTCTAGCAACACAGACAGTGCAGGAGCCCTGGGCACCCTCAGGTTCTGTGTGTTGGGCTGGGCTCCC  
 GAGCATACCCCACTTCTGTGCCTTTGCTCGAGCGGTGGACACAAGGCTGGAGGAGCTGGCGGGGAGCG  
 ACTACTGCAGCTGGGCCAAGGTGATGAGCTCTGTGGCCAGGAGGAGGCTTCCGAGGCTGGGCCAGGCC  
 GCCTTCCAGGCTGCCTGTGAAACCTTCTGTGTGGGAGAAGATGCCAAAGCTGCTGCCGAGATATCTTCA  
 GCCCAAACGCAGCTGGAAGCGCCAGAGGTACCGGCTGAGTACCCAGGCTGAGAGCCTGCAATTACTACC  
 AGGGCTGACTCACGTGCACAGCGGAAGATGTTCCAGGCTACAATCCTCTCTGTGAAAACCTACAGAGC  
 AGCAAATCCACCCGAGCCACGATCCTGGTGCCTGGACACCGGAGGCCAGGAGGACTGCAGTACCAGC  
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 GGACCCTCCGCCATCCACAGAACCTGTGGCTGTGGAACAAGTGGAAAGGCAGCCCTGGTGGCCCTCCC  
 CCCGGCTGGGTACGGGACCCCGGCTACCCCATGTACGCTGCGGCAGGCTCTCACCTACTTCTGGACA  
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 GGAGCTAGAGGCTCTCAGCCAGGACCCCGGCGCTACGAAGAATGGAAGTGGTTCAGCTGCCCCACTG  
 CTAGAGGTGCTGGAGCAATTTCTTTCAGTGGCACTGCCTGCCCGCTGATCCTCACCCAGCTGCCCTTG  
 TCCAGCCCGGTACTACTCTGTCACTTACAGCACCAGCGCCACCCAGGAGAGATCCACCTACCATAGC  
 TGTGCTGGCTTACAGAACCAGGATGGGCTGGGCCCTCTGCACTACGGTGTCTGCTCCACGTGGATGAGC  
 CAGCTCAAGGCGGGAGATCCAGTGCCTGCTTATCAGGGGGCTCCCTCCTTCCGGTGCCACCTGATC  
 CTAACCTGCCCTGCATCCTGGTGGGCCAGGACTGGCATTGCACCCTTCCGGGGATTCTGGCAAGACAG  
 ACTACACGACATTGAGATCAAAGGGCTACAACCTGCCCCATGACTTTGGTGTGGTGGCTGCCGATGCTCC  
 CAACTGGACCATCTCTACCGGGACGAGGTACTGGACGCCAGCAGCGTGGGGTGTGGACAAGTCTCA  
 CCGCCTTTTCCAGGGATCCTGGCAGCCCAAGACCTACGTGCAAGACCTCCTGAGGACAGAGCTAGCCG  
 GGAGGTTACCGTGTGCTGTGCCTTGGCAAGGACATATGTTTGTCTGCGGCGATGCTACTATGGCAACC  
 AGCGTCTGCAAACCGTGCAGAGAATTCTGGCAACAGAGGGCGGCATGGAGCTGGATGAAGCCGGTACG  
 TCATCGGCGTGTGCGGGATCAGCAACGCTACCACGAGGACATTTTCGGACTCACATTGCGCACCCAGGA  
 GGTGACAAGCCGCATACGCACCCAGAGCTTTTCTTTCAGGAGCGACAGCTGAGGGGCGCAGTGCCTGG  
 TCCTTTGACCCGCTGGCCAGAATACTGGTTCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** BC052636
- Insert Size:** 3609 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:** [BC052636](#), [AAH52636](#)

**RefSeq Size:** 3982 bp

**RefSeq ORF:** 3608 bp

**Locus ID:** 18127

**Cytogenetics:** 5 11.32 cM

**Gene Summary:** Produces nitric oxide (NO) which is implicated in vascular smooth muscle relaxation through a cGMP-mediated signal transduction pathway. NO mediates vascular endothelial growth factor (VEGF)-induced angiogenesis in coronary vessels and promotes blood clotting through the activation of platelets. May play a significant role in normal and abnormal limb development.[UniProtKB/Swiss-Prot Function]