

## Product datasheet for **MC226759**

### **Npr3 (NM\_001286395) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Npr3 (NM\_001286395) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Npr3  
**Synonyms:** ANP-C; ANPR-C; EF-2; Igj; NPR-C; stri  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC226759 representing NM\_001286395  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGTGTGCCAGTGGTGACACCATTCGGAGAATCATGTTGGCGGTGCACAGACACGGCATGACCAGTGGAG  
ACTACGCTTTCTCAACATTGAACTCTCAACAGTTCTTCTACGGAGATGGCTCGTGGAGGAGAGGAGA  
CAAACACGACTCTGAAGCTAAACAAGCATACTCGTCCCTCAAACAGTCACCTACTGAGGACCGTGAAA  
CCTGAGTTTGAGAAGTTTTCCATGGAGGTGAAAAGTTCTGTTGAGAAACAAGGGCTCAATGAGGAGGATT  
ACGTGAACATGTTTGTGAAGGGTTCATGACGCCATCCTCCTCTACGTTCTGGCTTTACATGAAGTACT  
CAGAGCTGGCTACAGCAAGAAGGATGGGGGAAAATCATCCAGCAGACTTGGAACAGGACATTTGAAGGT  
ATCGCCGGGCAGGTGCCATAGATGCCAACGGGACCGGTATGGGGACTTCTCTGTGGTTGCCATGACTG  
ACACTGAAGCAGGCACCCAAGAGGTCATTGGTGATTACTTTGGGAAAGAAGGCCGTTCCAAATGCGATC  
GAATGTCAAATATCCTTGGGGCCCTTTGAAACTGAGACTAGATGAGACCAGAATCGTGGAGCATACCAAC  
AGCTCTCCTTGCAAATCATGTGCCTAGAAGAATCTGCAGTGACAGGAATCGTTGTGGGGCCCTACTAG  
GTGCTGGCTTGTAAATGGCCTTCTACTTTTTTCAGGAAGAAATACAGAATAACCATTGAGAGCGGAAATCA  
GCAAGAGGAAAGCAACATCGGGAAGCATCGAGAGCTGCGAGAAGATCCATCAGATCACATTTTTTCGGTG  
GCT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001286395  
**Insert Size:** 846 bp



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|-------------------------------|--|
| <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>OTI Annotation:</b>        | Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.   |
| <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><a href="#">NM_001286395.1</a></u> , <u><a href="#">NP_001273324.1</a></u>  |
| <b>RefSeq Size:</b>           | 6540 bp  |
| <b>RefSeq ORF:</b>            | 846 bp   |
| <b>Locus ID:</b>              | 18162  |
| <b>Cytogenetics:</b>          | 15 5.83 cM   |
| <b>Gene Summary:</b>          | <p>Receptor for the natriuretic peptide hormones, binding with similar affinities atrial natriuretic peptide NPPA/ANP, brain natriuretic peptide NPPB/BNP, and C-type natriuretic peptide NPPC/CNP (PubMed:10377427, PubMed:17951249). May function as a clearance receptor for NPPA, NPPB and NPPC, regulating their local concentrations and effects (PubMed:10377427, PubMed:17951249). May regulate diuresis, blood pressure and skeletal development (PubMed:10377427). Does not have guanylate cyclase activity (PubMed:10377427). [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR, lacks part of the 5' coding region, uses an alternate in-frame splice site in the 3' coding region, and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (c) is shorter, compared to isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p> |