

## Product datasheet for **MC220109**

### **Nsd2 (NM\_001177884) Mouse Untagged Clone**

#### **Product data:**

<b>Product Type:</b>	Expression Plasmids
<b>Product Name:</b>	Nsd2 (NM_001177884) Mouse Untagged Clone
<b>Tag:</b>	Tag Free
<b>Symbol:</b>	Nsd2
<b>Synonyms:</b>	5830445G22Rik; 9430010A17Rik; AW555663; C130020C13Rik; D030027O06Rik; D930023B08Rik; mKIAA1090
<b>Vector:</b>	pCMV6-Entry (PS100001)
<b>E. coli Selection:</b>	Kanamycin (25 ug/mL)
<b>Cell Selection:</b>	Neomycin



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**Fully Sequenced ORF:** >MC220109 representing NM\_001177884  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAATTTAGCATCAGAAAAAGTCCTCTTTCTGTTCAGAAAAGTTGTAAGTGCATGAAGATGAAGCAGA  
 CACCAGAAATCCTTGGCAGTGCAAATGGAAAGACTCAGAACTGTGAAGTGAATCATGAATGTTCTGTATT  
 CCTCAGCAAAGCTCAACTTTCTAACAGCCTACAGGAGGGGTCATGCAGAAATTTAATGGCCATGATGCG  
 CTCCTCTTTCTCCAGCAGAGAAGTTGAAAGATCTTACTTCTTGTGTTTTAATGGAGAACCTGGTGCTC  
 ATGATACTAAATGTGTTTTGAGGCCAGGAAGTAAAAGGAATGGGACACCACCAATACTACACCTAT  
 CAAAAATGGCTCTCCAGAAATTAAGTAAAAATCACCAAAACATACATGAATGGGAAACCTCTCTTTGAA  
 TCTTCAATTTGTGGTGACGGTGTCTGTCTCAGTCAGAGAAAACGAACAAAACTGATAATA  
 AGACTAGGAGAACAGGAAGAGGAGCATAAAATATGACTCTTACTGGAGCAGGGCCTTGGAAGCAGC  
 TTTAGTGTCCAAGATCTCAAGTCTGCAGATAAAAAGATTCCAGTTAAGAAGGAGTCTGTCCAATACT  
 GGCAGAGACAGAGACCTCTGTAAAAATACAACGTTGGTGATTTGGTGTGGTCCAAAGTGTGAGTTACC  
 CTGGTGGCCTTGCATGGTTCTGCTGACCCACTCTTCAACAATCATACCAAACCTAAAGGTGAGAAAAA  
 AAGTGCACGCCAGTATCATGTACAGTCTTTGGTGATGCCCCAGAAAGAGCTTGGATATTTGAGAAGAGC  
 CTGTTGCTTTTGAAGGAGAAGAACAATTTGAAAAATTATGCCAAGAAAGTGCCAAGCAGGCACCCACGA  
 AAGCTGAGAAAAATCAAGTTGTTGAAACCTATTTCCGGGAGATTGAGAGCCAGTGGGAAATGGGCATTGT  
 CCAAGCTGAGGAAGCTGCCAGCATGTCAATAGAGGAGCGGAAAGCCAAATTTACCTTCTTTATGTGGG  
 GACCAATTGCACCTCAACCCTCAAGTAGCTAAGGAGGCTGGCATTGTTACAGAACCTTTGGGAGAAATGG  
 TGGACTTTCAGGGCCAGTGAAGAGGCTGCTGTAGACCCTGGGTCTGTGAGAGAAGAGGATATTTCCAC  
 GAAGAGAAGCGAAGAACCAAAAAGGTCTAGTTCTGCTGAGAACCAAGAAGGTGATCCTGGCACAGACAAG  
 AGTACACCTCAAAGATGGCAGAGGCTGAACCTAAGCGAGGAGTAGGCTCTCCTGCTGGGAGGAAAAAGT  
 CCACAGGCTCTGCTCCTCGGAGCAGGAAGGGAGACTCAGCAGCCAGTTTTTAGTCTTTTGTCAAAAAACA  
 CAGAGATGAGGTTGTAGCTGAACATCCAGATGCCTCAGGGGAAGAGATTGAAGAATTGCTTGGGTCCCAG  
 TGGAGCATGCTCAATGAAAAGCAGAAAGCAGATATAATACAAGTTTTCCCTAATGATCTCTGCCAGT  
 CTGAAGAAGACTCTGAAATGGGAATGGGAAAAAAGAAGCCACACAAGAGAGCAGATGACCCTGCAGA  
 GGATGTGGATGTTGAAGACGCGCCAGGAAAAGACTTAGAGCAGATAAGCACAGTCTTCGGAAGCAGAGA  
 GAGACAATCACCGACAAAACGGCCAGAACAAGCTTTACAAGGCTATAGAGGCAGCCTCCTCACTCAAGA  
 GCCAGGCAGCAACGAAAAATTTGTCTGATGCTTGCAAACCACTGAAGAAGCGAAATCGGGCTTCTGCAAC  
 AGCGTCTTCAGCACTTGGGTTTAAACAAAAGTTCATCTCCTTCTGCATCCTTAAGTGAAGCATGAGCTTTTA  
 TGGGAGCCACATCAGTCAAGTTGGACTTGAACCTCAGCCGCCCTGTACTGCAGT**AG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001177884
- Insert Size:** 1947 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:** [NM\\_001177884.1](#), [NP\\_001171355.1](#)

**RefSeq Size:** 7806 bp

**RefSeq ORF:** 1947 bp

**Locus ID:** 107823

**Cytogenetics:** 5 B2

**Gene Summary:** Histone methyltransferase with histone H3 'Lys-27' (H3K27me) methyltransferase activity. [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) differs in the 3' coding region and 3' UTR, compared to variant 1, resulting in an isoform (3) with a distinct and significantly shorter C-terminus, compared to isoform 1. The 5' UTR of this variant may be incomplete due to the lack of 5'-complete transcripts supporting it, and the presence of alternative splicing choices further upstream. 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.