OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC224344

Nsd2 (NM_001081102) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nsd2 (NM_001081102) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nsd2
Synonyms:	5830445G22Rik; 9430010A17Rik; AW555663; C130020C13Rik; D030027O06Rik; D930023B08Rik; mKIAA1090
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

```
>MC224344 representing NM_001081102
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAATTTAGCATCAGAAAAAGTCCTCTTTCTGTTCAGAAAGTTGTAAAGTGCATGAAGATGAAGCAGA
CACCAGAAATCCTTGGCAGTGCAAATGGAAAGACTCAGAACTGTGAAGTGAATCATGAATGTTCTGTATT
CCTCAGCAAAGCTCAACTTTCTAACAGCCTACAGGAGGGGGTCATGCAGAAATTTAATGGCCATGATGCG
CTCCCCTTTCTTCCAGCAGAGAAGTTGAAAGATCTTACTTCTTGTGTTTTTAATGGAGAACCTGGTGCTC
ATGATACTAAATTGTGTTTTGAGGCCCAGGAAGTAAAAGGAATTGGGACACCACCCAATACTACACCTAT
CAAAAATGGCTCTCCAGAAATTAAACTGAAAATCACCAAAACATACATGAATGGGAAACCTCTCTTTGAA
TCTTCAATTTGTGGTGACGGTGCTGCTGATGTGTCTCAGTCAGAAGAAAACGAACAAAAATCTGATAATA
AGACTAGGAGGAACAGGAAGAGGAGCATAAAATATGACTCTTTACTGGAGCAGGGCCTTGTGGAAGCAGC
TTTAGTGTCCAAGATCTCAAGTCCTGCAGATAAAAAGATTCCAGTTAAGAAGGAGTCCTGTCCAAATACT
GGCAGAGACAGAGACCTCTTGTTAAAATACAACGTTGGTGATTTGGTGTGGTCCAAAGTGTCAGGTTACC
CTTGGTGGCCTTGCATGGTTTCTGCTGACCCACTCCTTCACAATCATACCAAACTTAAAGGTCAGAAAAA
AAGTGCACGCCAGTATCATGTACAGTTCTTTGGTGATGCCCCAGAAAGAGCTTGGATATTTGAGAAGAGC
CTTGTTGCTTTTGAAGGAGAAGAACAATTTGAAAAATTATGCCAAGAAAGTGCCAAGCAGGCACCCACGA
AAGCTGAGAAAATCAAGTTGTTGAAACCTATTTCGGGGAGATTGAGAGCCCAGTGGGAAATGGGCATTGT
CCAAGCTGAGGAAGCTGCCAGCATGTCAATAGAGGAGCGGAAAGCCAAATTTACCTTCCTTTATGTGGGG
GACCAATTGCACCTCAACCCTCAAGTAGCTAAGGAGGCTGGCATTGTTACAGAACCTTTGGGAGAAATGG
TGGACTCTTCAGGGGCCAGTGAAGAGGCTGCTGTAGACCCTGGGTCTGTGAGAGAAGAGGATATTCCCAC
GAAGAGAAGGCGAAGAACCAAAAGGTCTAGTTCTGCTGAGAACCAAGAAGGTGATCCTGGCACAGACAAG
AGTACACCTCCAAAGATGGCAGAGGCTGAACCTAAGCGAGGAGTAGGCTCTCCTGCTGGGAGGAAAAAGT
CCACAGGCTCTGCTCCTCGGAGCAGGAAGGGAGACTCAGCAGCCCAGTTTTTAGTCTTTTGTCAAAAACA
```

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

View online »

CAGAGATGAGGTTGTAGCTGAACATCCAGATGCCTCAGGGGAAGAGATTGAAGAATTGCTTGGGTCCCAG
TGGAGCATGCTCAATGAAAAGCAGAAAGCACGATATAATACAAAGTTTTCCCTAATGATCTCTGCCCAGT
CTGAAGAAGACTCTGGAAATGGGAATGGGAAAAAAAGAAGCCACACAAAGAGAGCAGATGACCCTGCAGA
GGATGTGGATGTTGAAGACGCGCCCAGGAAAAGACTTAGAGCAGATAAGCACAGTCTTCGGAAGCAGAGA
GAGACAATCACCGACAAAACGGCCAGAACAAGCTCTTACAAGGCTATAGAGGCAGCCTCCTCACTCAAGA
GCCAGGCAGCAACGAAAAATTTGTCTGATGCTTGCAAACCACTGAAGAAGCGAAATCGGGCTTCTGCAAC
AGCGTCTTCAGCACTTGGGTTTAACAAAAGTTCATCTCCTTCTGCATCCTTAACTGAGCATGAGGTCTCA
GACAGCCCAGGAGATGAACCATCAGAGTCTCCATATGAAAGTGCAGATGAAACACAGACTGAAGCATCCG
TCTCATCTAAAAAATCTGAAAGAGGAATGGCTGCCAAAAAGGAGTACGTGTGTCAGCTGTGTGAGAAGAC
AGGCAGTCTCTTACTGTGTGAGGGCCCCTGTTGTGGAGCATTCCACCTAGCCTGCCTTGGACTTTCCCGA
AGACCGGAAGGAAGATTCACCTGCACCGAATGTGCCTCAGGGATTCACTCATGCTTCGTATGTAAAGAAA
GCAAGATGGAGGTGAAACGTTGTGTGGTAAATCAGTGTGGAAAGTTTTACCATGAAGCCTGTGTAAAAAA
ATACCCTCTCACTGTGTTTGAGAGCCGAGGCTTCCGCTGTCCTCTCCATAGCTGTATGAGCTGCCATGCC
TCCAACCCTTCAAATCCACGGCCATCAAAAGGTAAAATGATGCGATGTGTCCGATGCCCCGTTGCCTATC
ATGGAGGGGATGCCTGTCTGGCAGCAGGATGTTCGGTGATTGCTTCTAACAGCATAATCTGCACAGGCCA
CTTCACTGCCCGGAAGGGGAAGCGGCACCATACCCATGTCAATGTGAGCTGGTGCTTTGTGTGCTCCAAA
GGGGGAAGCCTTCTGTGCTGTGAGGCCTGCCCAGCAGCCTTTCACCCCGATTGTCTAAACATCGAGATGC
CCGATGGTAGCTGGTTCTGCAACGATTGCCGGGCTGGAAAGAAGCTCCACTTTCAAGACATCATCTGGGT
CAAACTTGGTAACTACAGATGGTGGCCGGCAGAAGTTTGCCATCCCAAAAATGTTCCCCCAAATATTCAG
AAAATGAAGCACGAGATTGGAGAATTCCCTGTATTTTTCTTTGGGTCTAAAGATTATTACTGGACGCATC
AGGCACGAGTGTTCCCATACATGGAGGGGGACCGGGGCAGCCGCTACCAGGGGGTCAGAGGGATCGGAAG
AGTCTTCAAGAACGCATTGCAAGAAGCTGAAGCTCGTTTTAATGAAGTCAAACTTCAGCGGGAAGCCCGA
GAAACACAGGAGAGTGAGAGAAAGCCTCCACCATACAAGCATATCAAGGTGAATAAACCTTATGGTAAAG
TCCAGATCTACACAGCTGACATTTCTGAAATCCCGAAGTGCAACTGTAAGCCCACAGATGAGAACCCCTG
TGGCTCTGATTCAGAGTGTCTGAACAGGATGCTAATGTTTGAGTGCCACCCGCAGGTGTGTCCTGCAGGG
GAATACTGCCAGAACCAGTGTTTCACTAAGCGCCAGTACCCTGAGACCAAGATCATCAAGACAGATGGCA
AAGGGTGGGGCCTGGTTGCCAAAAGGGACATCAGAAAAGGAGAATTTGTTAATGAGTATGTTGGTGAGCT
GATTGATGAAGAGGAGTGTATGGCAAGAATCAAATATGCACATGAGAATGACATCACTCACTTCTACATG
CTCACCATAGACAAGGACCGCATAATTGATGCTGGCCCCAAAGGGAATTATTCACGATTCATGAACCATA
GCTGCCAGCCCAATTGTGAGACCCTGAAGTGGACAGTGAATGGGGACACACGGGTTGGCCTGTTTGCTGT
GTGTGACATTCCTGCAGGTACAGAGCTGACTTTCAACTATAACCTTGATTGTTTGGGCAATGAAAAGACA
GTCTGTCGGTGTGGAGCCTCCAACTGTAGTGGGTTCCTTGGAGACAGACCAAAGACATCAGCATCCCTTT
CATCAGAGGAAAAGGGTAAAAAGGCCAAGAAGAAAACCAGAAGGCGCAGAGCCAAGGGTGAAGGAAAACG
GCAGTCAGAGGATGAGTGCTTCCGCTGTGGTGATGGTGGGCAGCTGGTGCTGTGTGACCGCAAGTTCTGT
ACCAAGGCCTACCACCTATCCTGCCTCGGTTTGGGCAAGCGGCCCTTTGGGAAGTGGGAATGTCCTTGGC
ATCACTGTGATGTATGTGGCAAACCTTCTACCTCATTTTGCCACCTCTGCCCCAACTCATTCTGTAAGGA
ACACCAAGATGGGACTGCTTTCCGTTCCACCCAGGATGGGCAGTCCTACTGCTGTGAGCATGACTTGAGG
GCAGACTCTTCAAGTAGCACCAAGACTGAGAAACCCTTTCCAGAATCACTGAAGTCAAAAGGAAAGAGGA
AGAAAAGGCGGTGCTGGCGAAGGGTCACAGATGGCAAATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001081102

Insert Size: 4101 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).

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

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_001081102.2, NP_001074571.2
RefSeq Size:	6936 bp
RefSeq ORF:	4101 bp
Locus ID:	107823
UniProt ID:	Q8BVE8
Cytogenetics:	5 B2
Gene Summary:	Histone methyltransferase with histone H3 'Lys-27' (H3K27me) methyltransferase activity. [UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) encodes the longest 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.

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US