

Product datasheet for MC224491

Nsd3 (NM_001081269) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nsd3 (NM_001081269) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nsd3
Synonyms:	6720429E03; A530023P05; AI528490; WHIS; WHISTLE; Whsc1; Whsc111
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224491 representing NM_001081269 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATTTCTCTTTCTTTTCATGCAAGGGATCATGGGAAACACAATTCAGCAACCACCTCAACTATTG
ACTCGGCCAACATCCGCCAGGAGGATGCCTTTGATAACCACAGTGACATTGTTGAAGATGGTGGCCCGAC
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 ACTTGGGGACTTCCCCGTGTTCTTCTTGGTTCTCACGACTACTACTGGGTTACCAAGGCAGAGTGT
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 ACTGCGGAGCAGACAAGTGTAGTGGATTCTAGGAGTGGCCAAAGTCTGCATGCATCAGCAGTTGA
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 GATTATTGTTTTAGTGTGGGATGGTGGAGAAGTGGTGTGTCGACAAGAAAGACTGTCCCAAGCTT
 ACCACCTCCTATGCCTTAACTGACTCAGCCACCCACGAAAGTGGGAGTGGCCGTCGATCGGTGTGA
 CGAGTGTGGCAGTGTAGCCGTTTCTTCTGTGAATCTGTCCACACTCATTCTGTAAAGCTCATGGAAAA
 GGGGCTCTGGTCCCTCTGCACTAGAAGTCTGCTCTGCTCCAGCCACGACCCTGCATCTCCTGTGT
 CACCAGAATACTGGAGCAAGATCAGATGTAATGGGAATCCCAAGATAGTGGAGAAGAAGTAAAGGAGTG
 A

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: NM_001081269
 Insert Size: 4341 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:	<ol style="list-style-type: none">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:	<u>NM_001081269.2, NP_001074738.1</u>
RefSeq Size:	9652 bp
RefSeq ORF:	4341 bp
Locus ID:	234135
Cytogenetics:	8 A2
Gene Summary:	<p>This gene encodes a member of the SET domain family of histone lysine N-methyltransferase proteins. This protein methylates histone H3 at lysine residues 4 and 27, which represses gene transcription. It acts in opposition to the histone demethylase Jmjd1c. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, May 2015]</p> <p>Transcript Variant: This variant (2) has a shorter 5' UTR, lacks the 3' terminal exon, and contains multiple alternate 3' exons, resulting in a distinct 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (2) has a distinct C-terminus and is longer than isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>