

Product datasheet for **MR216644**

Nsd3 (NM_001001735) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nsd3 (NM_001001735) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nsd3
Synonyms:	6720429E03; A530023P05; AI528490; WHIS; WHISTLE; Whsc1; Whsc111
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>MR216644 representing NM_001001735
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGATTCTCTTTCTTTTCATGCAAGGGATCATGGAAACACAATTCAGCAACCACCTCAACTATTG
ACTCGGCCAACATCCGCCAGGAGGATGCCTTTGATAACCCACAGTGACATTGTTGAAGATGGTGGCCCGAC
ACCCTTTGAAGCTACTTTGCAACAAGGTTTTCAATATCCACCTACAACAGAAGACCTTCCTCCGCTCACA
AATGGCTACCCACCATCAATCAGCTTGTATGAACTCAAACAAATACCCGCCATATAATCAGTATCCCA
ATGGGTCAGCCAACGGTTTTGGTGCAGTTAGAACTTTAGCCCTACTGACTATTACCATTAGAAATTC
AAACACAAGACCACATGAAATCTGAAAAACCTTCTCTCTCAGCCACCTCCTCTCTCTCTCTCTCT
CCTCTCTCTCTCTCTCTCTCGGTACCACAACTGTGATCCAAAGAAGACAGGCTCACCCGAGATTA
AACTAAAAATAACAAAATATCCAGAATGGCAGGGAATTGTTTGTAGTCTCCCTTTGTGGAGACCTCTT
AAATGAAGTACAGGCAAGCGAGCACAAAAGTCTAAGCATGAAAGCAGAAAGGAAAAGAGGAAAAAGAGC
AACAGACACGAGTCATCCCGATCCGAAGAGCGGAGGTCACACAAGATTCCCAAGCTAGAGCCGGAGGGAC
AGAATAGACCAAATGAGAGGGTGGACACTGCACCAGAGAAGCCAAAGAGAAGAGCCAGTGCTCAAAGAGGC
CATCCCGTTTCAGCCAATACTGTCTTCTGTTCCAAACAAGAAACATCCACTGGTGTAAAGTTCCAGGTT
GGTGATCTGTTTGGTCCAAGGTGGGAACCTACCTTGGTGGCCTTGTATGGTTTCAAGTATCCCCAGC
TTGAGGTCCATTCAAAAATTAACACAAGAGGTGCCCGGGAATATCATGTCCAATTTTTAGCAACCAGCC
AGAGAGGGCATGGGTTTCATGAGAAACGGGTACGGGAATACAAAGGTCATGAACAGTATGAAGAGTTACTA
GCCGAGGCAGCCAAGCAAGCCAGCAATCATTCTGAAAAGCAAAGATTTCGAAACCCCGACCTCAGAGAG
AACGTGCCCAATGGGACATTGGCATTGCTCATGCAGAGAAAGCATTGAAAATGACTCGGGAGGAAAGAGT
AGAGCAGTACACTTTTCTCTACATTGATAAGCAGCCAGAAGAGGCTTCGTCCCAAGCAAAGAAGAAATGTT
ACCTCTAAGACGGAAGTCAAGAAACCCGAAAGCAAGATCTGTGCTGAACAGTCAGCCAGAACAGACCA
ATGCTGGGAGGTGGCCTCTCACAATCAAGTACTGACCTTCGAAGGCAGAGCCAGAGGGCGCATACTAG
CTTGGAAGAGGAAGAGCCACCTCTGTTAAAAATCGCCTGGAAAACAGCAGCCGAAGGAAGTCTTACCA
GCCTCCATCACAATGCACAAAGGGAGCCTAGATTTGCAGAAGTGAATATGTCTCCAGTTGTGAAAATG
AACAGTGTGTTGCTCTCCAGAATGCAACAGGAGATGGGAAGTTTATTGATCAGTTTGTGTTTATTCAACGAA
GGGATTGGTAACAAAACAGAAATAAGTGTGAGGGGGCAAGACAGGCTTATAATCTTCCACCAAGTCAG
AGAAGTAAAAGCCGGCTCAGAGCGCTCATCTCCGGAGGCAACATCTGGTTCTGCAGGCCAGTAGAGA
AGAAGCAGCAGAGAAGATCCATCAGGACTCGATCTGAGTCAGAGAAGTCCGCCGAGGTTGTGCCAAAGAA
GAAGATCAAAAAGGAGCAGGTTGAGACAGCTCCCAGGCCTCCCTGAAGACCGGGTTACAGAAAAGGTCG
GCGGACCGAGGAGCGCAGGGCTCTGTCAGATTCAGTGACAGCTCCGTCTCCGCAGCGAAAGAGGAAACTG
TGGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR216644 representing NM_001001735
Red=Cloning site Green=Tags(s)

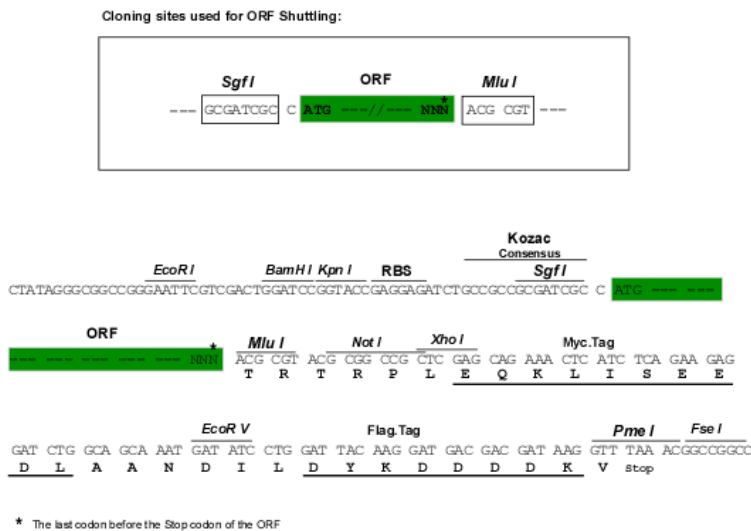
```
MDFSFSFMQIMGNTIQPPQLIDSANIRQEDAFDNHSDIVEDGGPTPFEATLQQGFQYPPTTEDLPPLT
NGYPPSISLYETQTKYPPYNQYPNGSANGFGAVRNFSPTDYHSEIPNTRPHEILEKPSPPQPPPLPPP
PPPPPPPSVPQTVIPKKTGSPEIKLKITKIQNGRELFESSLGGDLLNEVQASEHTKSKHESRKEKRKKS
NRHESSRSEERRSHKIPKLEPEGQNRPNERNVDTAPEKPREEPVLKEAIPVQPIILSSVPTTETSTGVKVFQV
GDLVWSKVGTYPWPCMVSSDPQLEVHVKINTRGAREYHVQFFSNQPERAWVHEKRVREYKGEQYEELL
AEAAKQASNHSEKQKIRKPRPQREERAQWDIGIAHAEKALKMTREERVEQYTFIYIDKQPEEASSQAKKNV
TSKTEVKKPRRPRSVLNSQPEQTNAQGEVASSQSSTDLRRQSQRRTSLEEEPPPVKIAWKTAAARKSLP
ASITMHKGLDLQKCNMSPVVKIEQVFALQNATGDGKFIDQFVYSTKGIGNKTEISVRGQDRLIISPSQ
RSEKPAQSASSPEATSGSAGPVEKKQRRSIRTRSESEKSAEVPKPKKIKKEQVETAPQASLKTGLQKGS
ADRGAGSVRFSDSSVSAAKEETVD
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9034_f10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001001735

ORF Size: 1965 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001001735.1](#), [NP_001001735.1](#)

RefSeq Size: 3747 bp

RefSeq ORF: 1968 bp

Locus ID: 234135

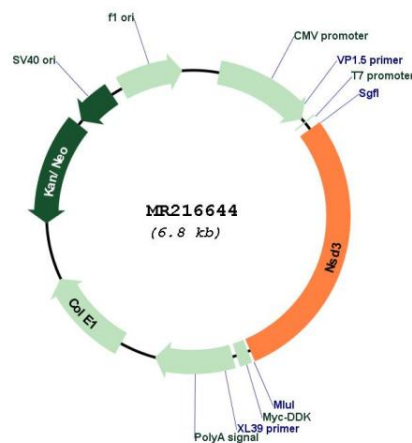
UniProt ID: [Q6P2L6](#)

Cytogenetics: 8 A2

MW: 73.8 kDa

Gene Summary: 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]

Product images:



Circular map for MR216644