

Product datasheet for **SC111310**

NSD3 (WHSC1L1) (NM_017778) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NSD3 (WHSC1L1) (NM_017778) Human Untagged Clone
Tag:	Tag Free
Symbol:	NSD3
Synonyms:	KMT3F; KMT3G; pp14328; WHISTLE; WHSC1L1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC111310 sequence for NM_017778 edited (data generated by NextGen Sequencing)

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ATGGATTTCTCTTTCTTTTCATGCAAGGGATCATGGGAAACACAATTCAGCAACCACCT
CAACTCATTGACTCCGCCAACATCCGTCAGGAGGATGCCTTTGATAACAACAGTGACATT
GCTGAAGATGGTGGCCAGACACCATATGAAGCTACTTTGCAGCAAGGCTTTCAGTACCCA
GCTACAACAGAAGATCTTCCTCCACTCACAATGGGTATCCATCATCAATCAGTGTGTAT
GAAACTCAAACCAAATACCAGTCATATAATCAGTATCCTAATGGGTCAGCCAATGGCTTT
GGTGCAGTTAGAAACTTTAGCCCCACTGACTATTATCATTAGAAAATCCAAACACAAGA
CCACATGAAATTCTGAAAAACCTTCCCCTCCACAGCCACCACCTCCTCCTTCGGTACCA
CAAAGTGTGATTCAAAGAAGACTGGCTCACCTGAAATTAATAAAAAATAACAAAAACT
ATCCAGAATGGCAGGGAATTGTTTGAGTCTTCCCTTTGTGGAGACCTTTTAAATGAAGTA
CAGGCAAGTGAGCACACGAAATCAAAGCATGAAAGCAGAAAAGAAAAGAGGAAAAAAGC
AACAGCATGACTCATCAAGATCTGAAGAGCGCAAGTCACACAAAATCCCCAAATTAGAA
CCAGAGGAACAAAATAGACCAAATGAGAGGGTTGACACTGTATCAGAAAAACCAAGGAA
GAACCACTACTAAAAGAGGAAGCCCGATTGAGCAATACTATCTTCTGTTCACAAACG
GAAGTGTCCACTGGTGTAAAGTTTCAGGTTGGCGATCTTGTGTGTCCAAGGTGGGAACC
TATCCTTGGTGGCCTTGTATGGTTTCAAGTGATCCCCAGCTTGAGGTTCACTAAAAATT
AACACAAGAGGTGCCGAGAATATCATGTCCAGTTTTTGAACACAGCCAGAGAGGGCG
TGGGTTTATGAAAAACGGGTACGAGAGTATAAAGGTCATAAACAGTATGAAGAATTACTG
GCTGAGGCAACCAAAACAGCCAGCAATCACTCTGAGAAAACAAAAGATTCCGAAACCCGA
CCTCAGAGAGAACGTGCTCAGTGGGATATTGGCATTGCCCATGCAGAGAAAAGCATTGAAA
ATGACTCGAGAAGAAAAGAAATAGAACAGTATACTTTTATTACATTGATAAACAGCCTGAA
GAGGCTTTATCCCAAGCAAAAAGAGTGTTCCTCCAAAACCGAAGTTAAAAAACCCGA
CGACCAAGATCTGTGCTGAATACTCAGCCAGAACAGACCAATGCAGGGGAGGTGGCCTCC
TCACTCTCAAGTACTGAAATTCGGAGACATAGCCAGAGGCGGCACACAAGTGCGGAAGAG
GAAGAGCCACCGCTGTAAAATAGCCTGGAAAACGCGGCAGCAAGGAAATCCTTACCA
GCTTCCATTACGATGCACAAAGGGAGCCTGGATTTGCAGAAGTGAACATGTCTCCAGTT
GTGAAAATTGAACAAGTGTGCTCTTCAGAATGCTACAGGGGATGGGAAATTTATCGAT
CAATTTGTTTATTCAACAAAGGGAATTGGTAACAAAACAGAAATAAGTGTGAGGGGGCAA
GACAGGCTTATAATTTCTACACCAAACAGAGAAATGAAAAGCCAACGCAGAGTGTATCA
TCTCCTGAAGCAACATCTGGTTCTACAGGCTCAGTAGAAAAGAAGCAACAGAGAAGATCA
ATTAGAACTCGTTCTGAATCAGAGAAATCCACTGAGGTTGTGCCAAAGAAGAAGTCAAA
AAGGAGCAGGTTGAAACAGTTCCTCAGGCTACAGTGAAGACTGGATTACGAAAGGGTCG
GCGGACCGGGGAGTGAGGGCTCTGTCAGATTCAGTGACAGCTCCGTCTCCGCAGCGATT
GAGGAAACTGTGGACTGA
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Clone variation with respect to NM_017778.2

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_017778 unedited
 CACTACTATAGGGCGGCCGGAATTCGCACGAGGCGGAGGCGGAGGCCGAGGGGGCTGT
 GCACAGGTCGCCGCGGAGAGGCGTGCGAATTCGAGCCGAGCGCCGAGGACCGTGTACC
 CAGGCCGGGCTGCCAGCCGAGGCTCCTCTCTGGCAGCAGCGCGGCGCGGACCCCCG
 TCCCTCGGCTCCCCTTCCCATCCCACCTCCCAGCCTTCTCTTCCCAGCACGCCCG
 GCCCGCCCGGCGTGGCCCTCCTCAGTGCCGGCCGATGGCAGAGGCGTCCGGCGCG
 GGAAAATCTAGCCCGGGATTTTCATGCGGCCTAGCTCGGTTCCGACTCCTCCTCGCGCG
 CCCCAGCGGCTGCCCGCACCCACCCAGCCCACTCCGGGCTCCGTGTCTCTCTGTATCGC
 ACTGACACGCGCCGGGGTTAGAAATGGAACAACTGAAGGCCGATGAGAGAAAGGAAA
 GTTAAGGATGCTGGAGCAGAACAATGGATTTCTTTCTTTTCTTTCATGCACGGGATCATGG
 GAAACACAATTCAGGAACCACCTCAACTCATTGACTCCGCCAACATCCGTGAGGAGGATG
 CCTTTGATAACACCAGTGACCTTGCTGAATATGGGGGTACATACCATATGAAACTACTT
 TGCATCAAGGCTTTTAGTACCCAGCTACTACAGAAAATCTTGCTCCCCTCCCAATGGGG
 ATCCACCATCAATCAATGGGTATGAAACTCAAACCCATACCCGGCATTAAACAGGTAA
 CCCATGGGTCAACCAATGGGTTTTGGGCGAGTTAACTCTAGCCCCCTGCCGTTTATCT
 CGGAAATCCAAGACCAGAACCCTGGATT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_017778 unedited
 CGGCCGAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTTTAGCTTACAAATATGGTTG
 CAGAGACATCTCCATCTGTGTTTTATTAGGGATGTGACAAATCTTTGATTTGATTTCGAT
 TCGTACACGGATAGTCCATTTTCCCCAAATTTTGAATTCAGTTGATTATTGCCCCC
 AATAAAATTTGGATGTTTATAATTGTTTCATCTGAGACTTCTTGGTGAAGTGGCATTAT
 TGTGACCATTAACAAGCGCTGCAGCACATCTACATATGTCATGCCATTTAGAAGGCACAT
 TGCTGAGGGCTGAAATGGACAATCAGTGTTCAGTGCAGCCAAATCACGTAAAGCTGGA
 TGGGAAGGCTCTATGTGGAATTTGTGCGGGAAGAAATAAATAGGAAAAAAGGAGAG
 AATAGTGTGGAATGTTTTTTTTTAAACTGTGTGTAATACAAATCCAGCCAAAACATTAG
 TGCAAAAAGTTACAAAGCAACAATCTCTGGGCTAATGCAGTATAGGCTATACAGAAACA
 GCCACGATGAAATGTGCAGATCAGGCACGTTGAATACCAAGGAACCAAGGAGACGGTTAA
 TATTTCAACCCACAGTTTGCCTTCTGCATTTTTTCCCCAAATTTCTACAAAAACAGAC
 ATTTAGACCACCCAGCAGTATGGTGAAGGGGCGAGTTCAAACACCCCTGGAAAACCAT
 CTCTGAGCCATGAAGATCCCCACAGGCTGATGAAATATCCTCGACATACCCCCCTCT
 GGGGAGGAAGGGGTCCTCTAAACTGCTCAATACCGAACCTTCTTCCATTTCCATTC
 CTCCCTTTCTATTGAACGCCCTGCATTCTCTGAGTGCCCTCCCCGTTTCCCCCTTT
 CCCCCACTCCCCTTTTTCTTCCCGTCGGCCCGGTCACCCTATGATTCTCTTTCC
 CTACACTCCCTTCTCCCGCTTCCACCACAACCTGTGCCCC

Restriction Sites:

NotI-NotI

ACCN:

NM_017778

Insert Size:

4110 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_017778.2](#), [NP_060248.2](#)

RefSeq Size: 3995 bp

RefSeq ORF: 1938 bp

Locus ID: 54904

UniProt ID: [Q9BZ95](#)

Cytogenetics: 8p11.23

Domains: PWWP

Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Lysine degradation

Gene Summary: This gene is related to the Wolf-Hirschhorn syndrome candidate-1 gene and encodes a protein with PWWP (proline-tryptophan-tryptophan-proline) domains. This protein methylates histone H3 at lysine residues 4 and 27, which represses gene transcription. Two alternatively spliced variants have been described. [provided by RefSeq, May 2015]
Transcript Variant: This variant (short) contains an alternative 3' end sequence. The shorter protein encoded has a different carboxy terminus than the protein encoded by variant long.