

## Product datasheet for **SC309580**

### WHSC1 (NM\_007331) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	WHSC1 (NM_007331) Human Untagged Clone
Tag:	Tag Free
Symbol:	NSD2
Synonyms:	KMT3F; KMT3G; MMSET; REIIBP; TRX5; WHS; WHSC1
Vector:	<u>pCMV6 series</u>



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<b>Fully Sequenced ORF:</b>	<p>&gt;NCBI ORF sequence for NM_007331, the custom clone sequence may differ by one or more nucleotides</p> <pre> ATGGAATTTAGCATCAAGCAGAGTCCCCTTTCTGTTTCAGAGTGTGTAAAGTGCATAAAG ATGAAGCAGGCACCAGAAATCCTCGGCAGTGCCAAACGGGAAGACTCCGAGCTGCGAGGTG AACCGCGAGTGTCTGTGTTCTCAGCAAAGCCCAGCTCTCCAGTAGCCTGCAGGAGGGG GTCATGCAGAAGTTTAACGGCCACGACGCCCTGCCCTTTATTCCAGCCGACAAGCTGAAA GATCTTACTTCCCGGGTGTAAATGGAGAACCCGGCGCACAGATGCCAAACTGCGTTTT GAGTCCCAGGAAATGAAAGGGATTGGGACACCCCTAACACTACCCCTATCAAAAATGGC TCTCCAGAAATTAAGCTGAAAATCACAAAACATACATGAATGGGAAGCCTCTCTTTGAA TCTTCCATTTGTGGTGACAGTGCTGCTGATGTGTCTCAGTCAGAAGAAAATGGACAAAAA CCAGAAAACAAGGCGAGAAGGAACAGGAAGAGGAGCATAAAATATGACTCCTTGCTGGAG CAGGGCCTTGTCGAAGCAGCTCTTGCTAAGATCTCAAGTCTTCAGATAAAAAGATT CCAGCTAAGAAAGAGTCTTGTCAAACACTGGAAGAGACAAAGACCACCTGTTGAAATAC AACGTTGGTGATTGGTGTGGTCCAAAGTGTGGGTTACCCTTGGTGGCCTTGCATGGTT TCTGCAGATCCACTCCTTCACAGCTATACCAAACCTAAAGGTGAGAAAAAGAGTGCACGC CAGTATACGTACAGTCTTTGGTGACGCCCCAGAAAGAGCTTGGATATTGAGAAGAGC CTCGTAGCTTTTGAAGGAGAAGGACAGTTTGAAAAATTATGCCAGGAAAGTGCCAAAGCAG GCACCCACGAAAGCTGAGAAAATTAAGCTATTGAAACCAATTTACGGGAAATTGAGGGCC CAGTGGGAAATGGGCATTGTTCAAGCAGAAGAAGCTGCAAGCATGTGAGTGGAGGAGCGG AAAGCCAAGTTACCTTTCTCTATGTGGGGGACCAGCTTCATCTCAACCTCAAGTAGCC AAGGAGGCTGGCATTGCTGCAGAGTCTTTGGGAGAAATGGCAGAAATCCTCAGGAGTCAGT GAAGAAGCTGCTGAAAACCCCAAGTCTGTGAGAGAAGAGTGCATTCCCATGAAGAGAAGG CGGAGGGCCAAACTGTGTAGCTCTGCAGAGACCCTGGAGAGTACCCCGACATAGGGAAG AGTACTCTCAAAAGACGCGCAGAGGCTGACCCCAAGAGGAGTAGGGTCTCCTCCTGGG AGGAAGAAGACCACAGTCTCCATGCCACGAAGCAGGAAGGGAGATGCAGCATCCAGTTT TTGGTCTTCTGTCAAAAACACAGGGATGAGGTGGTAGCTGAGCACCAGATGCTTCAGGT GAGGAGATTGAAGAGCTGCTCAGGTACAGTGGAGTCTGCTGAGTGAGAAGCAGAGAGCA CGCTACAACACCAAGTTTGCCCTGGTGGCCCTGTCCAGGCTGAAGAAGACTCTGGTAAT GTAAATGGGAAAAAAGAAACACAAAGAGGATACAGGACCCTACAGAAGATGCTGAA GCTGAGGACACACCCAGGAAAAGACTCAGGACGGAACAAGCAGTCTTCGGAAGAGAGAC ACAATCACTGACAAAACGCCAGAACAAGCTCTTACAAGGCCATGGAGGCAGCCTCCTCG CTCAAGAGCCAGGCAGCAACGAAAAATCTGTCTGATGCATGTAAACCACTGAAGAAGCGA AATCGGGCTTCCACGGCAGCATCTTCAGCTCTTGGGTTTACGAAAAGTTCATCTCCTTCT GCATCCTTAAGTGAATGAGGTAATAA </pre>
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_007331
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_007331.1, NP_015627.1</u>
<b>RefSeq Size:</b>	5172 bp
<b>RefSeq ORF:</b>	1890 bp
<b>Locus ID:</b>	7468
<b>UniProt ID:</b>	<u>O96028</u>
<b>Cytogenetics:</b>	4p16.3
<b>Domains:</b>	PWWP, HMG
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	Lysine degradation
<b>Gene Summary:</b>	<p>This gene encodes a protein that contains four domains present in other developmental proteins: a PWWP domain, an HMG box, a SET domain, and a PHD-type zinc finger. It is expressed ubiquitously in early development. Wolf-Hirschhorn syndrome (WHS) is a malformation syndrome associated with a hemizygous deletion of the distal short arm of chromosome 4. This gene maps to the 165 kb WHS critical region and has also been involved in the chromosomal translocation t(4;14)(p16.3;q32.3) in multiple myelomas. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms. Some transcript variants are nonsense-mediated mRNA (NMD) decay candidates, hence not represented as reference sequences. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (8) contains an additional fragment beyond the 3' end of exon 11, and lacks exons 12-25, as compared to variant 1. This fragment shifts the reading frame and introduces an immediate translation termination. This variant encodes isoform 4, which is much shorter and has a different C-terminus from isoform 1.</p>