

Product datasheet for **SC301195**

RIZ1 (PRDM2) (NM_001007257) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RIZ1 (PRDM2) (NM_001007257) Human Untagged Clone
Tag:	Tag Free
Symbol:	PRDM2
Synonyms:	HUMHOXY1; KMT8; KMT8A; MTB-ZF; RIZ; RIZ1; RIZ2
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001007257, the custom clone sequence may differ by one or more nucleotides

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ATGAGAGATTCTGCAGAAGGTCCTAAAGAAGACGAAGAGAAGCCTTCAGCCTCAGCACTT
GAGCAGCCGGCCACCCTCCAGGAGGTGGCCAGTCAGGAGGTGCCTCCAGAAGTAGCAACC
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TGTC AACATTGTGAAAGGAAGTTTACAACCAACAGGGGCTTGAGCGTCACATGCATATC
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CCAGCATGGAGTTTGTCTGGGAGAGATGAGAGAGAACTGTGAGCCCTCCATGCTTTGAT
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 TTACAAAGCAAATCCACCTTGGCGAGTAAGAAAAGAACAGACCGGTTCAATATAAAATCT
 AGAGAGCGGAGTGGGGGCCAGTACCCGGAGCCTTCCAGCTGGCAGCTGCTGCTGACTTG
 AGTGAGAAACAAGAGAGGACGGCAGCGCAAGCAGGAGCTGAAGGACTTCAGGAACCTC
 CTGTAG

Restriction Sites: Please inquire
ACCN: NM_001007257

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).
OTI Annotation:	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.
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_001007257.1</u> , <u>NP_001007258.1</u>
RefSeq Size:	6207 bp
RefSeq ORF:	4446 bp
Locus ID:	7799
UniProt ID:	<u>Q13029</u>
Cytogenetics:	1p36.21
Protein Families:	Druggable Genome
Gene Summary:	<p>This tumor suppressor gene is a member of a nuclear histone/protein methyltransferase superfamily. It encodes a zinc finger protein that can bind to retinoblastoma protein, estrogen receptor, and the TPA-responsive element (MTE) of the heme-oxygenase-1 gene. Although the functions of this protein have not been fully characterized, it may (1) play a role in transcriptional regulation during neuronal differentiation and pathogenesis of retinoblastoma, (2) act as a transcriptional activator of the heme-oxygenase-1 gene, and (3) be a specific effector of estrogen action. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2008]</p> <p>Transcript Variant: This variant (3) is shorter at the 5' end and differs in the 3' UTR and coding region compared to variant 1. Expression of this transcript is under the control of an internal promoter in the gene (PMID: 9006946), which is why it is shorter at the 5' end than variant 1. The resulting isoform (c, also called RIZ2) is shorter at the N-terminus and has a distinct C-terminus compared to isoform a.</p>