

Product datasheet for **SC309583**

RIZ1 (PRDM2) (NM_012231) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: RIZ1 (PRDM2) (NM_012231) Human Untagged Clone
Tag: Tag Free
Symbol: RIZ1
Synonyms: HUMHOXY1; KMT8; KMT8A; MTB-ZF; RIZ; RIZ1; RIZ2
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_012231 edited
 ATGAATCAGAACACTACTGAGCCTGTGGCGGCCACCGAGACCCTGGCTGAGGTACCCGAA
 CATGTGCTGCGAGGACTTCCGGAGGAAGTGAGGCTTTTCCCTTCTGCTGTTGACAAGACC
 CGGATTGGTGTCTGGGCCACTAAACCAATTTTAAAGGCAAAAAATTTGGGCCATTTGTT
 GGTGATAAGAAAAAAGATCTCAGGTTAAGAATAATGTATACATGTGGGAGGTGATTAC
 CCAAATTTGGGATGGATGTGCATTGATGCCACTGATCCAGAGAAGGGAACTGGCTGCGA
 TATGTGAATTGGGCTTGCTCAGGAGAAGAGCAAAATTTATCCCACTGGAAATCAACAGA
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 AATGGGGAAGACAACCTGAGATAGCAGCTGCGATTGAGGAAGAGCGAGCCAGCGCCCGG
 AGCAAGCGGAGCTCCCCAAGAGCCGAAAGGGAAGAAAAATCCAGGAAAATAAAAAAC
 AAAGAAAACAAAATCCAAGACATACAACGAAGACAAGTGAGCCAGATTTACCTCTGCA
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 CTTGAGCAGCCGGCCACCTCCAGGAGGTGGCCAGTCAGGAGGTGCCTCCAGAACTAGCA
 ACCCCTGCCCTGCCTGGGAGCCACAGCCAGAACCAGACGAGCGATTAGAAGCGGAGCT
 TGTGAGGTGAATGATTTGGGGAAGAGGAGGAGGAGGAAGAGGAGGAGGATGAAGAAGAA
 GAAGAAGATGA : TGATGATGATGAGTTGGAAGACGAGGGGGAAGAAGAAGCCAGCATGCC
 AAATGAAAATTCTGTGAAAGAGCCAGAAATACGGTGTGATGAGAAGCCAGAAGATTTATT
 AGAGGAACCAAAAACAACTTCAGAAGAACTCTGAAGACTGCTCAGAGGTAACACCTGC
 CATGCAAAATCCCCAGAATAAAGAAGAGGCAATGGTGATGATTTGAAACGTTTATGTT
 TCCGTGTCAACATTGTGAAAGGAAGTTTACAACCAACAGGGGCTTGAGCGTCACATGCA
 TATCCATATATCCACCGTCAATCATGCTTTCAAATGCAAGTACTGTGGAAAGCCTTTGG
 CACACAGATTAACCGGCGGCGACATGAGCGGCGCCATGAAGCAGGGTTAAAGCGGAAACC
 CAGCCAAACACTACAGCCGTCAGAGGATCTGGCTGATGGCAAAGCATCTGGAGAAAACGT
 TGCTTCAAAGATGATTCGAGTCTCCAGTCTTGGGCCAGACTGTCTGATCATGAATTC
 AGAGAAGGCTTCCCAAGACACAATAAATCTTCTGTCGTAGAAGAGAATGGGGAAGTTAA
 AGAACTTCATCCGTGCAAAATATTGTAAGGTTTTTGGAACTCATACTAATATGAGACG
 GCATCAGCGTAGAGTTCACGAACGTCATCTGATCCCAAAGGTGTACGGGAAAAGGAGG



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CCTTGAAGAGCCCCAGCCTCCAGCAGAACAGGCCAGGCCACCCAGAACGTGTATGTACC
 AAGCACAGAGCCGGAGGAGGAAGGGGAAGCAGATGATGTGATCATGGACATTTCTAG
 CAATATCTCTGAAAACCTAAATTAATTAATTGATGGTAAAATCAAATAAACAACAC
 TAGTAACGTGTGATGTGATTGAGATGGAGTCTGCTTCGGCAGATTTGTATGGTATAAATTG
 TCTGCTCACTCCAGTTACAGTGGAAATTAATAAAATATAAAGACCACACAGGTCCTGT
 AACAGAAGATCTTCTAAAGAGCCTTTGGGCAGCACAAATAGTGAGGCCAAGAAGCGGAG
 AACTGCGAGCCACCTGCACCTGCCAAAATTAAGGCCGAAACAGACTCTGACCCCATGGT
 CCCTCTTGCTCTTTAAGTCTTCTCTTAGCATATCAACAACAGAGGCAGTGTCTTTCCA
 CAAAGAGAAAAGTGTATTATTGTCATCAAAGCTCAAACAACCTTCTCAAACCCAAGATAA
 ACTAA: : CTCCTGCAGGGATTTAGCAACTGAAATAGCTAAATAGGTCTGTTTGTGT
 GTCTGCTCCTGCATCAATGTTGCTGTGACCTCAAGTAGGTTTAAAGAGCGGACCAGCTC
 TCCTCCAGTTCTCCACAGCACAGTCTGCCCTTCGAGACTTTGGAAAGCCAAGTATGG
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 ATTTGCTTTTTGTGCAATTTGCAGCAGCACCAGCGAGATCTCCACCCAGATAAGGTGTG
 CACACATCAGGAGTTTAAAAGCGGGACTCTGAGGCCCAAGAACTTACAGATCCCAGCAA
 GGCCCATGTAGAGCATATGCAGAGCTTGCCAGAAGATCCTTTAGAAACTTCTAAAGAAGA
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 ACCACCTCCATTTCAAGTACCATACCGTAACCCCATGGGATTGGTGTGACAGCCACAAA
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 AAAAGGTGTGCACAATATGCCGGAGTTGCACAAACATATCCTGGCTTGTGCTTCTGCAAG
 TGACAAGAAGAGGTACACGCCTAAGAAAAACCCAGTACCATTAACAAACTGTGCAACC
 CAAAAATGGCGTGGTGGTTTTAGATAACTCTGGGAAAAATGCCTTCGACGAATGGGACA
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 AAATGCATTGAAGAAAAAAAATCAGCTAGTACAGAAAGCAATTTCTCAGAAAAACAAATC
 TGCAAAGCAGAAGGCCGACTTGA AAAATGCTTGTGAGTCACTCTCACATCTGCCCTTA
 CTGTAATCGAGAGTTCACTTACATTGGAAGCCTGAATAAACACGCGCCTTCAGCTGTCC
 CAAAAACCCCTTCTCCTCCCAAAAAAAAAGTTTCTATTATCTAAGAAAGGTGGACA
 CTCATCACCTGCAAGTAGTGACAAAAACAGTAACAGCAACCACCGCAGACGGACAGCGGA
 TGCGGAGATTA AAATGCAAAGCATGCAGACTCCGTTGGGCAAGACCAGAGCCCGCAGCTC
 AGGCCCAACCAAGTCCCACTCCCTCCTCATCTTCAGGTCCAAGCAGAACGTCAAGTT

TGCAGCTTCGGTGAAATCCAAAAACCAAGCTCCTCCTTTAAGGAACTCCAGCCCGAT
 AAGAATGGCCAAAATAACTCATGTTGAGGGGAAAAACCTAAAGCTGTGGCCAAGAATCA
 TTCTGCTCAGCTTTCAGCAAAACATCACGGAGCCTGCACGTGAGGGTACAGAAAAGCAA
 AGCTGTTTTACAAAGCAAATCCACCTTGGCGAGTAAGAAAAGAACAGACCGGTTCAATAT
 AAAATCTAGAGAGCGGAGTGGGGGGCCAGTCACCCGGAGCCTTCAGCTGGCAGCTGCTGC
 TGACTTGAGTGAGAACAAGAGAGAGGACGGCAGCGCCAAGCAGGAGCTGAAGGACTTCAG
 CTACAGCCTCCGCTTGGCGTCCCGATGCTCTCCACCAGCGGCCCGTACATCACCAGGCA
 GTATAGGAAGGTCAAAGCTCCAGCTGCAGCCAGTTCAGGGACCATTCTCAAAGAGTA
 G

Restriction Sites:	Please inquire
ACCN:	NM_012231
Insert Size:	5200 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).
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_012231.3</u> , <u>NP_036363.2</u>
RefSeq Size:	7958 bp
RefSeq ORF:	5157 bp
Locus ID:	7799
UniProt ID:	<u>Q13029</u>
Cytogenetics:	1p36.21
Domains:	SET, zf-C2H2
Protein Families:	Druggable Genome

Gene Summary:

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]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a, also called RIZ1).