

Product datasheet for **SC308804**

Retinoblastoma binding protein 1 (ARID4A) (NM_023000) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Retinoblastoma binding protein 1 (ARID4A) (NM_023000) Human Untagged Clone
Tag:	Tag Free
Symbol:	Retinoblastoma binding protein 1
Synonyms:	RBBP-1; RBBP1; RBP-1; RBP1
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_023000, the custom clone sequence may differ by one or more nucleotides

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ATGAAGGCGGCAGATGAGCCTGCCTACCTGACAGTGGGAACCGATGTCAGTGCCAAGTAC
CGAGGTGCCTTCTGTGAGGCAAAGATTAAGACTGTGAAAAGGCTGGTAAAGTTAAGGTA
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AACAGAGGAAGGAGATCTTCTTCTCCTGTTACTGAAGATGAAAAGGAAGAAGAAAGCAGT
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GTAAAATATGGACGAGGGAAGACTCAGAAAATTTATGAAGCCAGTATTAAGGACTGAA
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 TCATCAGACACTGGAATGAGTCCCTCATCATCATCTCCCCACAAAATGTACTTGCTGTA
 GAATGCAGGTGA

- Restriction Sites:** Please inquire
- ACCN:** NM_023000
- 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:	NM_023000.1 , NP_075376.1
RefSeq Size:	4672 bp
RefSeq ORF:	3612 bp
Locus ID:	5926
UniProt ID:	P29374
Cytogenetics:	14q23.1
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	<p>The protein encoded by this gene is a ubiquitously expressed nuclear protein. It binds directly, with several other proteins, to retinoblastoma protein (pRB) which regulates cell proliferation. pRB represses transcription by recruiting the encoded protein. This protein, in turn, serves as a bridging molecule to recruit HDACs and, in addition, provides a second HDAC-independent repression function. The encoded protein possesses transcriptional repression activity. Multiple alternatively spliced transcripts have been observed for this gene, although not all transcript variants have been fully described. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) lacks 162 bp in the coding region, as compared to variant 1, but maintains the same reading frame. The encoded protein lacks 54 internal codons and is thought to lack phosphorylation sites.</p>