

## Product datasheet for **SC315313**

### Retinoblastoma binding protein 1 (ARID4A) (NM\_002892) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Retinoblastoma binding protein 1 (ARID4A) (NM_002892) Human Untagged Clone
Tag:	Tag Free
Symbol:	Retinoblastoma binding protein 1
Synonyms:	RBBP-1; RBBP1; RBP-1; RBP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC315313 representing NM_002892. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_002892
- Insert Size:** 3774 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:**

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\\_002892.3](#)

**RefSeq Size:** 5792 bp

**RefSeq ORF:** 3774 bp

**Locus ID:** 5926

**UniProt ID:** [P29374](#)

**Cytogenetics:** 14q23.1

**Domains:** CHROMO, ARID, TUDOR

**Protein Families:** Druggable Genome, Transcription Factors

**MW:** 142.8 kDa

**Gene Summary:** 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]  
Transcript Variant: This variant (1) encodes the full length isoform.