

Product datasheet for **SC128221**

RYBP (NM_012234) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RYBP (NM_012234) Human Untagged Clone
Tag:	Tag Free
Symbol:	RYBP
Synonyms:	AAP1; APAP-1; DEDAF; YEAF1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_012234, the custom clone sequence may differ by one or more nucleotides

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ATGACCATGGGCGACAAGAAGAGCCCGACCAGGCCAAAAAGACAAGCGAAACCTGCCGCAGACGAAGGGT
TTTGGGATTGTAGCGTCTGCACCTTCAGAAACAGTGCTGAAGCCTTTAAATGCAGCATCTGCGATGTGAG
GAAAGGCACCTCCACCAGAAAACCTCGGATCAATTCTCAGCTGGTGGCACAACAAGTGGCACAACAGTAT
GCCACCCACCACCCCTAAAAAGGAGAAGAAGGAGAAAGTTGAAAAGCAGGACAAGAGAAACCTGAGA
AAGACAAGGAAATTAGTCTAGTGTTACCAAGAAAAATACCAACAAGAAAACCAAACAAAGTCTGACAT
TCTGAAAGATCCTCCTAGTGAAGCAAACAGCATACAGTCTGCAAATGCTACAACAAGACCAGCGAAACA
AATCACACCTCAAGGCCCGGCTGAAAAACGTGGACAGGAGCACTGCACAGCAGTTGGCAGTAAGTGTGG
GCAACGTACCGTCATTATCACAGACTTTAAGGAAAAGACTCGCTCCTCATCGACATCCTCATCCACAGT
GACCTCCAGTGCAGGGTCAGAACAGCAGAACCAGAGCAGCTCGGGGTGAGAGAGCACAGACAAGGGCTCC
TCCCGTTCCTCCACGCCAAAGGGCGACATGTCAGCAGTCAATGATGAATCTTTCTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_012234 unedited
 TTTGTATACGACTCCTATAGGCGGCCCGCAATTCGCACGAGCGGAAGGGTGGGTGGGTG
 GTCTCCCGAGCGAAGTTTCCAGCACTGGATTCTCTGCGAAATTACGACGGCTCACCCGCGT
 CTGTGTTTTGCTGTCTCTCCCCGTTTTCTGCTCCCTGCCTCTCCCTCCCTTTTCCCC
 CACTCTCCACTCCTCCGAAGGCCAAAAAGACAAGCGAAACCTGCCGCAGACGAAGGGTTT
 TGGGATTGTAGCGTCTGCACCTTCAGAAACAGTCTGAAGCCTTTAAATGCAGCATCTGC
 GATGTGAGGAAAGGCACCTCCACCAGAAAACCTCGGATCAATTCTCAGCTGGTGGCACAA
 CAAGTGGCACAAACAGTATGCCACCCACCACCCCTAAAAAGGAGAAGAAGGAGAAAAGTT
 GAAAAGCAGGACAAGAGAAAACCTGAGAAAAGACAAGGAAATTAGTCCTAGTGTTACCAAG
 AAAAAACCAACAAGAAAACCAACCAAGTCTGACATTCTGAAAGATCCTCCTAGTGAA
 GCAAACAGCATACAGTCTGCAAATGCTACAACAAAGACCAGCGAAAACAAATCACACCTCA
 AGGCCCGCGTGAAAAACGTGGACAGGAGCACTGCACAGCAGTTGGCAGTAACTGTGGGC
 AACGTCACCGTCATTATCACAGACTTTAAGGAAAAGACTCGCTCCTCATCGACATCCTCA
 TNCACAGTGANCCTCAGTGCAGGNTCAGAACAGCAGAACCANGAGCAGCTCGGGGTGAGA
 GAGCACAGACAGGNNCTCCTCCNGTTCCTNCACGCCAAGGNCGCATGTCAGCAGTCAT
 GATGAAATCTTCTGAANTGCCATGGNNATNGAAAATTGAATCAGGTNTGAAATCAAACC
 TNCACTGGCATG

3' Read Nucleotide Sequence:

>OriGene 3' genomic read for NM_012234 unedited
 ACGCGGCCCAATCTAGAATCGAGTTTTTTTTTTTTTTTTTTTGC AAAACAGTAAAAAGAGT
 GAAGAGAATGAAATAGAACAGTTTACTCAAGCTATCTTTATGTCCAGGAAGAAAAAGAT
 TACATGCTGCTCGCAGTAAGTACGAGCTTCCCTGCAACTCTGGCTGCAGGCGCGCAAGC
 CGTTCACCACTGGAGTTCCTACCACAGCAGGGGATTGAGAAATGTCTCCAAACACTGAAA
 AGCTCCATGTGAGACTGGATGTGTGGTTGATAACCTTTGTTTCAGTAAAAACAAATCATAG
 TAGGTTTTGAGAAGGAAAAAAGAATGCTCACAACCTGAATCGGTAGAGTGAAGGTTTATC
 AGACAAAGGGACATGAGGCAAACAAATTTAATTACAGAAACCACCCTGCAATGTCATG
 TAGAAAGGAGAAACAAGGACTAGCTTCCCTGGATGGACAAAAATACAGTTTATAGACTG
 TTTCAATCCTAAAACCTAAGACAATTTCTAGATTTACCTCAGACATGAGTAGACGCTGGA
 AAATGGATGGAATTCAAGTTACAGAATACCATATTTTCATGAGTGCTTATGTAAGAACAG
 CAAATGATAACATGTAACCGTAATTTACACGAATACTTGGCATTCTGGAGCTACTTTAGT
 TACTTTTGAATGATCAAAGCCCTGCCCACTAAACCCTTGTGATTTGTGAGTTATTCCA
 TTGCAAATGCAGGCTATCTGGAGCAGTCTTTAAATTTGAGATCACANTTGTAAAAAAT
 ATATATTTTTATANTCGTCCAGTACTCTNTAGACAGATGAGAGAAGTCAGNTCCACATG
 GATTGGNAACATACTNCACTGAGACTGATTTTAAANNTAAATTCAGCACTTTCATAGAAGG
 GACTGTCCCAGATCTGTACTGGTTCATGGTGNNACTACTCN

Restriction Sites:

NotI-NotI

ACCN:

NM_012234

Insert Size:

2150 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).

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_012234.3 , NP_036366.2
RefSeq Size:	4678 bp
RefSeq ORF:	687 bp
Locus ID:	23429
UniProt ID:	Q8N488
Cytogenetics:	3p13
Domains:	zf-RanBP
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	<p>Component of a Polycomb group (PcG) multiprotein PRC1-like complex, a complex class required to maintain the transcriptionally repressive state of many genes, including Hox genes, throughout development. PcG PRC1-like complex acts via chromatin remodeling and modification of histones; it mediates monoubiquitination of histone H2A 'Lys-119', rendering chromatin heritably changed in its expressibility (PubMed:25519132). Component of a PRC1-like complex that mediates monoubiquitination of histone H2A 'Lys-119' on the X chromosome and is required for normal silencing of one copy of the X chromosome in XX females. May stimulate ubiquitination of histone H2A 'Lys-119' by recruiting the complex to target sites (By similarity). Inhibits ubiquitination and subsequent degradation of TP53, and thereby plays a role in regulating transcription of TP53 target genes (PubMed:19098711). May also regulate the ubiquitin-mediated proteasomal degradation of other proteins like FANK1 to regulate apoptosis (PubMed:14765135, PubMed:27060496). May be implicated in the regulation of the transcription as a repressor of the transcriptional activity of E4TF1 (PubMed:11953439). May bind to DNA (By similarity). May play a role in the repression of tumor growth and metastasis in breast cancer by down-regulating SRRM3 (PubMed:27748911).[UniProtKB/Swiss-Prot Function]</p>