

## Product datasheet for **SC118280**

### **RING1 (NM\_002931) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RING1 (NM_002931) Human Untagged Clone
Tag:	Tag Free
Symbol:	RING1
Synonyms:	RING1A; RNF1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_002931, the custom clone sequence may differ by one or more nucleotides

```
ATGACGACGCCGCGAATGCCAGAATGCCAGCAAACGTGGAACTGAGTCTGTATGAGCTGCACCGGA  
CCCCGAGGAAGCCATAATGGATGGCACAGAGATTGCTGTTCCCTCGGTCACTGCATTAGAAGTCA  
GTGCCCTATCTGCCTGGACATGCTGAAGAATACGATGACCACCAAGGAGTGCCTCCACAGATTCTGCTCT  
GACTGCATTGTACAGCCCTACGGAGCGGGAACAAGGAGTGTCTACCTGCCGAAAGAAGCTGGTGTCCA  
AGCGATCCCTACGGCCAGACCCCACTTTGATGCCCTGATCTCTAAGATCTATCCTAGCCGGGAGGAATA  
CGAGGCCATCAAGACCGAGTGTATCCGCCTGAGCCGCTGCACAACCAGCAGGCATTGAGCTCCAGC  
ATTGAGGAGGGGCTACGCATGCAGGCCATGCACAGGGCCAGCGTGTGAGGCGGCCGATACCAGGGTCAG  
ATCAGACCACAACGATGAGTGGGGGGAAGGAGAGCCCGGGGAGGAGAAGGGGATGGAGAAGATGTGAG  
CTCAGACTCCGCCCTGACTCTGCCCCAGGCCCTGCTCCCAAGCGACCCCGTGGAGGGGGCGCAGGGGGG  
AGCAGTGTAGGGACAGGGGGAGGCGCACTGGTGGGGTGGGTGGGGGTGCCGGTTCGGAAGACTCTGGT  
ACCGGGGAGGGACTCTGGGAGGGGGAACGCTGGGCCCCCAAGCCCTCCTGGGGCCCCAGCCCCCAGA  
GCCAGGTGGAGAAATTGAGCTCGTGTCCGGCCCCACCCCTGCTCGTGGAGAAGGGAGAATACTGCCAG  
ACGAGGTATGTGAAGACAACGGAAATGCCACAGTGGACCACCTCTCAAGTACTTGGCCCTGCGCATTG  
CCCTCGAGCGGAGGCAACAGCAGGAAGCAGGGGAGCCAGGAGGGCCTGGAGGGGGCGCCTCTGACACCG  
AGGACCTGATGGGTGTGGCGGGAGGGTGGGGTGCCGGAGGAGGTGACGGTCTGAGGAGCCTGCTTTG  
CCAGCCTGGAGGGCGTCAGTGAAAAGCAGTACACCATCTACATCGCACCTGGAGGCGGGCGTTACGA  
CGTTGAATGGCTCGCTGACCCTGGAGCTGGTGAATGAGAAATTCTGGAAGGTGTCCCGCCACTGGAGCT  
GTGCTATGCTCCCAAGGATCCAAAGTGA
```



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**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_002931 unedited  
 GCACGAGGCGGGTGGCGGGAGCTGCTGTCTGAGCAGCGGTTGCGGACCGAGCGAACT  
 GGCCAGGAGCCCGGCC TAGGGAGAGGCGCGCGGGCGGGAGCGCGAACGGCTGGAG  
 CTGGCCTTCTTCGCTTCTCCTCGGCTGTGGAGCCCTGGTGGGGGTCTGCGCCCGTCA  
 CCATGACGACGCCGCGAATGCCAGAATGCCAGAAAACGTGGAACTGAGTCTGTATG  
 AGCTGCACCGGACCCCGCAGGAAGCCATAATGGATGGCACAGAGATTGCTGTTTCCCCTC  
 GGTCACCTGCATTCAGAACTCATGTGCCCTATCTGCCTGGACATGCTGAAGAATACGATGA  
 CCACCAAGGAGTGCCTCCACAGATTCTGCTCTGACTGCATTGTCACAGCCCTACGGAGCG  
 GGAACAAGGAGTGTCTACCTGCGAAAGAAGCTGGTGTCCAAGCGATCCCTACGGCCAG  
 ACCCCAACCTTTGATGCCCTGATCTCTAAGATCTATCTAGCCGGGAGGAATACGAGGCC  
 ATCAAGACCGAGTGCTTATCCGCTGAGCCGCTGCACAACCAGCAGGCATTGAGCTCCA  
 GCATTGAGGAGGGCTACGCATGCAGGCCATGCACAGGGCCAGCGTGTGAGGCGGCCGA  
 TACCAGGGTCAGA

**3' Read Nucleotide Sequence:** >OriGene 3' read for NM\_002931 unedited  
 CATGGATGCTGCCCAATTCANGTTTTTTTTCAAAAACAAAAAGCCGTTTGTGTTGG  
 TAGGCGGGCGTGAATGGGAGGGTCTTACCTTCTCCAACACCTCGTATAGATGGGACGT  
 TGCAGGGCAATAGAAAAGGCAGCAGATGGGGCGTGTGTTTGCCTTCTGTACAATATA  
 GAAGAATCTCATATAGATACTTTGTATAAAAAGCCACGTGTCTCATTGTGCTCTTAT  
 TGGCTGGCTGGGCTGGGGTACTGGGGGACAAAGAAGCTGGGGTGTAGACCAGGACACA  
 GGGATACCCCATGGTCCCCTTCTCTGGCTGTCCCCTGGTGGGGTCACTTTGGATCCTTG  
 GTGGGAGCATAGCACAGCTCCAGTGGCCGGGACACCTTCCAGAATTTCTCATTACCAGC  
 TCCAGGGTCAGCGAGCCATTCAACGTCTGTAACGCCCCGCTCCAGGTGCGATGTAGATG  
 GTGACTGCTTTTCACTGACGCCCTCCAGGCTGGGCAAAGCAGGCTCCTCAGGACCGTCA  
 CCTCTCCGGCACCCCAACCTCCCGCCACACCCATCAGGTCCTCCGGTGTGAGAGGGC  
 CCCCCTCCAGGCCCTCCTGGCTCCCCTGCTTCTGCTGTTGCCTCCGCTCGAGGGCAATG  
 CGCAGGGCCAAGTACTTGGAGAGGTGGTCCACTGTGGCATTCCCAGTTGTCTTACATAC  
 CTCGTCTGGCAGTATTCTCCCTTCTCCACGAGCAGGGGTGGGGCCGGAACACGAGCTCA  
 ATTTCTCCACCTGGCTCTGGNNGGCTGGNNGCCCCAGAGGGCTTGGGGGGCCAGCGTC  
 CNCCTCCNAGAGTCCCTCCNCGGGTCACAGAGTCTTNCGAACCGNNACCNNACCACCC  
 NACCAGTGGCCGNNCTCCCCTGTCCCTACACTGGNTCCCCCTGCGCCCCCTCCACGGGG  
 TCGCTT

**Restriction Sites:** NotI-NotI

**ACCN:** NM\_002931

**Insert Size:** 2000 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_002931.3</a> , <a href="#">NP_002922.2</a>
<b>RefSeq Size:</b>	1744 bp
<b>RefSeq ORF:</b>	1221 bp
<b>Locus ID:</b>	6015
<b>UniProt ID:</b>	<a href="#">Q06587</a>
<b>Cytogenetics:</b>	6p21.32
<b>Domains:</b>	RING
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	<p>This gene belongs to the RING finger family, members of which encode proteins characterized by a RING domain, a zinc-binding motif related to the zinc finger domain. The gene product can bind DNA and can act as a transcriptional repressor. It is associated with the multimeric polycomb group protein complex. The gene product interacts with the polycomb group proteins BMI1, EDR1, and CBX4, and colocalizes with these proteins in large nuclear domains. It interacts with the CBX4 protein via its glycine-rich C-terminal domain. The gene maps to the HLA class II region, where it is contiguous with the RING finger genes FABGL and HKE4. [provided by RefSeq, Jul 2008]</p>