

## Product datasheet for SC106228

### ROC2 (RNF7) (AF312226) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ROC2 (RNF7) (AF312226) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** RNF7  
**Synonyms:** CKBBP1; ROC2; SAG  
**Vector:** pCMV6-XL4  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**Cell Selection:** None

**Fully Sequenced ORF:** >OriGene ORF sequence for AF312226 edited  
 ATGGCCGACGTGGAAGACGGAGAGGAAACCTGCGCCCTGCGCTCTCACTCCGGGAGCTCA  
 GGCTCCAAGTCGGGAGGCGACAAGATGTTCTCCCTCAAGAAGTGAACCGGGTGGCCATG  
 TGGAGCTGGGACGTGGAGTGCATACGTGCGCCATCTGCAGGGTCCAGGTGATGGATGCC  
 TGTCTTAGATGTCAAGCTGAAAACAAACAAGAGGACTGTGTTGTGGTCTGGGGAGAATGT  
 AATCATTCTCCACAACCTGCTGCATGTCCTGTGGGTGAAACAGAACAAATCGCTGCCCT  
 CTCTGCCAGCAGGACTGGGTGGTCAAAGAATCGGCAAATGA

**5' Read Nucleotide Sequence:** >OriGene 5' read for AF312226 unedited  
 CAACATTTTGGTAATACGACTACTATAGGGCGGCCGCAATTCGCACCAGGCGGCTGC  
 GGGCGGCGCTGTGGCCCTCGGGCGGCTCCACAGAGCCGCCCTAGCCTTCCGCTTCCCC  
 AAGCCAACGTCTCCGCCGTCGGCTCCGCGGCGCCGCCATGGCCGACGTGGAAGACGGAGA  
 GGAAACCTGCGCCCTGGCTCTCACTCCGGGAGCTCAGGCTCCAAGTCGGGAGGCGACAA  
 GATGTTCTCCCTCAAGAAGTGAACCGGGTGGCCATGTGGAGCTGGGACGTGGAGTGCGA  
 TACGTGCGCCATCTGCAGGGTCCAGGTGATGGATGCCTGTCTTAGATGTCAAGCTGAAAA  
 CAAACAAGAGGACTGTGTTGTGGTCTGGGGAGAATGTAATCATTCTCCACAACCTGCTG  
 CATGTCCTGTGGGTGAAACAGAACAAATCGCTGCCCTCTCTGCCAGCAGGACTGGGTGGT  
 CCAAAGAATCGGCAAATGAGAGTGGTTAGAAGGCTTCTTAGCGCAGTTGTTTCAGAGCCCT  
 GGTGGATCTTGTAAATCCAGTGCCCTACAAAGGCTAGAACACTACAGGGGATGAATTTCTC  
 AAATAGGAGCCGATGGATCTGTGGTCTTTGGGACTCATCAAAGCCTTGGTTTAGCATT  
 TGTCAGTTTTATCTTCAGAAATCTCTGCGATTAAGAAGATAATTTATTAAGGTGGTCC  
 TTCCTACCTCTGTGGTGTGTGTCGCGCACACAGCTTAGAAGTGCTATAAAAAAGGAAAGA  
 GCTCCAAATTGAATCACCTTNTATATTTACCCATTTCTATANCACAGGCAGTGAAGCAG  
 TTTTCAGAGAATTTTTGCATGCTTATGGGTGATCAGTTAANAAAAGATGGTACANNGTAC  
 AATAAAGTGCAGTTTAAACCCCACTCTACTCTTAAATTTGTCCATACGTATTTTTGGC  
 AGGGAGAGGGAACGTCCATGNAATCTTTTGTGAAAT

**Restriction Sites:** NotI-NotI



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<b>ACCN:</b>	AF312226
<b>Insert Size:</b>	2850 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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="#">AF312226.1</a> , <a href="#">AAK37450.1</a>
<b>RefSeq Size:</b>	674 bp
<b>RefSeq ORF:</b>	327 bp
<b>Locus ID:</b>	9616
<b>Cytogenetics:</b>	3q23
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Ubiquitin mediated proteolysis
<b>Gene Summary:</b>	The protein encoded by this gene is a highly conserved ring finger protein. It is an essential subunit of SKP1-cullin/CDC53-F box protein ubiquitin ligases, which are a part of the protein degradation machinery important for cell cycle progression and signal transduction. This protein interacts with, and is a substrate of, casein kinase II (CSNK2A1/CKII). The phosphorylation of this protein by CSNK2A1 has been shown to promote the degradation of I $\kappa$ B $\alpha$ (CHUK/IKK- $\alpha$ /IKBKA) and p27Kip1(CDKN1B). Alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]