

## Product datasheet for SC111737

### ROC2 (RNF7) (NM\_014245) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ROC2 (RNF7) (NM_014245) Human Untagged Clone
Tag:	Tag Free
Symbol:	ROC2
Synonyms:	CKBBP1; rbx2; ROC2; SAG
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC111737 sequence for NM_014245 edited (data generated by NextGen Sequencing) ATGGCCGACGTGGAAGACGGAGAGGAAACCTGCGCCCTGGCCTCTCACTCCGGGAGCTCA GGCTCCAAGTCGGGAGGCGACAAGATGTTCTCCCTCAAGAAGTGAACCGGTGGCCATG TGGANCTGGGACGTGGAGTGCATACGTGCGCCATCTGCAGGGTCCAGGTGATGGATGCC TGTCTTAGATGTCAAGCTGAAAACAAACAAGAGGACTGTGTTGGTCTGGGAGAAATGT AATCATTCTCCACAACCTGCTGCATGTCCCTGTGGGTGAAACAGAAACAATCGCTGCCCT CTCTGCCAGCAGGACTGGGTGGTCCAAAGAATCGGCAAATGA  Clone variation with respect to NM_014245.4 125 g=>n
5' Read Nucleotide Sequence:	>OriGene 5' read for NM_014245 unedited GCACGAGGGCGCCGCATGGCCGACGTGGAAGACGGAGAGGAAACCTGCGCCCTGGCCTC TCACTCCGGGAGCTCAGGCTCCAAGTCGGGAGGCGACAAGATGTTCTCCCTCAAGAAGTG GAACCGGTGGCCATGTGGAGCTGGGACGTGGAGTGCATACGTGCGCCATCTGCAGGGT CCAGGTGATGGATGCCTGTCTTAGATGTCAAGCTGAAAACAAACAAGAGGACTGTGTTGT GGTCTGGGAGAAATGTAATCATTCTCCACAACCTGCTGCATGTCCCTGTGGGTGAAACA GAACAATCGCTGCCCTCTCTGCCAGCAGGACTGGGTGGTCCAAAGAATCGGCAAATGAGA GTGGTTAGAAGGCTTCTTAGCGCAGTTGTTAGAGCCCTGGTGGATCTTGAATCCAGTG CCCTACAAAGGCTAGAACACTACAGGGGATGAATTCTTCAAATAGGAGCCGATGGATCTG TGGTCTTTGGGACTCATCAAAGCCTTGGTTTAGCATTGTTGTCAGTTTTATCTTCAGAAA TTCTCTGCGATTAAGAAGATAATTTATTAAGGTGGTCTTCTACCTCTGTGGTGGTGT GTCGCGCACACAGCTTAGAAGTGCTATAAAAAAGGAAAGACTCCAAATTGAATCACCT
Restriction Sites:	NotI-NotI
ACCN:	NM_014245



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<b>Insert Size:</b>	2770 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="#">NM_014245.2</a> , <a href="#">NP_055060.1</a>
<b>RefSeq Size:</b>	1616 bp
<b>RefSeq ORF:</b>	342 bp
<b>Locus ID:</b>	9616
<b>UniProt ID:</b>	<a href="#">Q9UBF6</a>
<b>Cytogenetics:</b>	3q23
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Ubiquitin mediated proteolysis
<b>Gene Summary:</b>	<p>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<math>\kappa</math>B<math>\alpha</math> (CHUK/IKK-<math>\alpha</math>/IKBKA) and p27Kip1(CDKN1B). Alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>