

## Product datasheet for **SC102870**

### **C20orf77 (RPRD1B) (AK092567) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	C20orf77 (RPRD1B) (AK092567) Human Untagged Clone
Tag:	Tag Free
Symbol:	C20orf77
Synonyms:	C20orf77; CREPT; dj1057B20.2; NET60
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for AK092567, the custom clone sequence may differ by one or more nucleotides

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ATTTGTACTTAGACAAAGAGGCAGCTGAACGTCTTTCAAAAACAGTAGATGAAGCATGTCTGTTACTAGC
AGAATATAACGGGCGCCTGGCAGCAGAAGTGGAGGACCGTCGCCAGCTGGCTCGGATGTTGGTGGAGTAT
ACCCAGAATCAGAAAGATGTTTTGTCGGAGAAGGAGAAAAAACTAGAGGAATACAACAGAAAGCTTGCAC
GAGTAACCCAGGTCCGCAAGGAACTGAAATCCCATATTCAGAGCTTGCCAGACCTCTCACTGCTGCCCAA
CGTCACAGGGGGCTTAGCCCCCTGCCCTCTGCTGGGGACCTGTTTTCAACTGACTAGGATGGGTGTCAT
GTCCCAGATTTCTGTTTGTACCAGCAGAAAAGAAGGGCAAGTCATGGTTGAAAATAACCTTCTAGCCCC
TGGTTCTATCCCTTCTCCGCCAGCCCCCAGCCTCAAGAAAGAACCTCAGACTCTGATTCTCCTCTTC
AGCCTCTCATCTTGAGCACAGTTCAGAACAGTGGCGACTGGAATCTGGTTTATATTCATATTTGCAAAGA
CTACAGACTTTTTCTCCACTTCATATTTTCATGCCCCCTGTTGGTTTTCCATTCTTAAGTGTCTCCTT
ATACCTAAGAAGTTATGAAAATCATGTGTAATCTGGAAGCTTTCGAAAGAATCTGTCCCTCATGACAG
CATTTTATCATGAAAGCAGCTTCTCCTTCTGGGCTGGGCTTGTCAAGTTCGGTGTGGGCTTCCACTAA
GGCACTTGTCTGGAGAGTGGCTTTCAGCTGCATCTGCCCAAAAGTTGTAGGCACAGCTGTCTGT
AGCGTTGCCATAAAGAGTTTGCCAAATCTCTGATCCTCCCTTCCATTGCTTCTCCTAGTGTGACAGAA
GATTAGGTGCATTTATTTGTAACAGATTGGAGAATCTAGCAATAAGATTCAAAGCTAATCTGGAGCAT
AAAGGCACAGTTCAGAGACAGAAATAACAGGGATCACAAGCATGAATAAAAGGAATTTATTTGCTCAAA
TTCCTAGATACAACCTTCCCAGTGCCTTCTCCACTGTCCGAGCAGCTTCCGAAAAACAGAAATGCCTT
GATCCCTGGTGGTGCGAAGGCAGTTGTTAGGGATGGCAGGCATTGGTGGGCTCCAAAAGATGAAGGCC
CACACACAGGTGTGCTGCATTTGGGATCTGTGTGGTGTCTTGGACCCTTCTTCTGGAGTAGGGTA
CACATAACGTTAATCCGCTGTCTGGTGCATGTCCACAGTACGGTGGCTAAACTCGAATCATCTGCA
AATAGGACGCTGAGCAGGTCCGTCTGTATGTACGCCACTGCACAGGTCCTTGTCCCCACACAGCGGG
AGTACTTGCCTCAGATGTTATTGAATAGCTCGTCTCGGGCAGGGGAGCGGGGAGTTGGGATATTAATT
GGGGGTTTTAATTCTATTATCATGTGAGCTGACATTATGACTATATAATGTAGTTAGAGACAATTTTAT
CTTGCTTATAGTAAAGGTTACGCTGCCAATTGTAATCATTCTAATTTGGCAGGCTTATTTTTGACATT
GGAAAGGGCAGAAAGCGATTTGCCCCAGTAGTGAATAGGAGTTATAGACCAGAGGCTGAAACCCAACT
ATATAAAAAGGAATTCAGTGGAGGGGCTTTGTAATCTCCATTAATTTGTGTTGCTACTTCCAGGATCAC
CAAAAATTACATGAATTTTACATGTTAAACACATTGAAACATAGGTAACCTATGTTTATAAAGCATAAC
GGGCTTCCCTCCAGAAGCTCTCCTGCTTGTGCATGAAGTGAACAATGAAAAGTCATAGCAGATACTCA
GTTTAACTCTGTGTAGAACCTAGTAGTGTGAGCTGTTATTCAGATTTGAATTCAGACTGTGTGTGTT
TGCTTATGGACACTGCCTGTCGTTCTGTCACTGTTAAACTAATGAGTCTATAAGGTTTTTCTCCAGAGG
CCATAGGTGACATCACTAAAATTGCAAGATAAATTGTAATCTTTGCTGCTGCTGCACTCCCCAACCTCTC
CCCCCCCCCGGTGTGCTGCTTTCTAGATGAGCGTGTGTTGGAGCAGGCCACTCGGGACACTCTAT
GCTTTCACCAAGGAAGTGCATCTGAGCAGCCACAATCCAGCCAAAAGAGGATCGTAGATATTTGCTCTG
ATCAACTAGATGAAAATATAGCAGAATGGATTTAGCCACTGCTCTGTTTTATCCAAGTGTCTCTGAC
CAGCAATTTGGTGCATAATTATTACAGCAAAAGTTAAGAAATGAACTGTAGCAATATGTAATGAATGT
GTTGGCTCTTAATACCTGTTACTAGTGGACTTCTGTGAGGAAGTTAGTTTTTTGTTTTGATGAAATGC
TTTTGTTTTTAAATCTTAATTCTGCTGCCACATCCTCCAAAAGTGTGCTTACTTCATTTGTTTTAATTT
AAATGAATTTCTCCTTGTATGTATGAGGTGACTTGGTGGGTGGGTGGTGGTTTTTTGTTTTGTGTT
TTTTCTTTCTTAGGGCATCTGTAGGCCTCAAAGGACCTTCTTTAGGTCATATTCCTCAGAAAAGCTTTC
AATCTTCCCTGTTTTGTTTTGTTTTTCTTAAAGAATATTTTCAAAGCTTAAATTTGTATATTAAT
TTAGGACTATTTAGAAGTATAGGCTGTCGTTGGCGGCAGCAGTATATTCTGAAATGTCTCATAGATATAT
ATTTTTGAATAAAGATGGTGTGTTG
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for AK092567 unedited  
 AGTATTTTGAATACGACTCACTTATAGGGCGGCCGATTTCGGCACGAGGGGAAATAA  
 CCTTCTAGCCCCTGGTTCTATCCCTTCTCCGCCAGCCCCCAGCCTCAAGAAAGAACC  
 TCAGACTCTGATTCTCCTCTTCAGCCTCTCATCTTGAGCACAGTTCAGAACAGTGGCGAC  
 TGGAACTGGTTTATATTCATATTTGCAAAGACTACAGACTTTTTCTCCCACTTCATATT  
 TTCATGCCCCCTGTTGGTTTTCCATTCTTAACTGTCTCCTTATACCTAAGAAGTTATGA  
 AAATCATGTGTACTTCTGGAAGCTTTTCGAAAGAATCTTGCCCTCATGACAGCATTTTAT  
 CATGAAAGCAGCTTCTCCTTTCTGGGCTGGGCTTGTCAAGTTCGGTGTGGGCTTCCACT  
 AAGGCACTTGTCTGGAGACGTTGGCTTTCCAGCTGCATCTGCCCAAAAAGTTGTAGG  
 CACAGCTGTCGTAGCGTTGCCATAAAGAGTTTGCCAAATCTGTATCCTCCCTTTCCATT  
 GCTTCTCCTAGTGATGCACGAAGATTAGGTGCATTTATTTTGTAAACAGATTGGAGAATC  
 TAGCAATAAGATTCAAAGCTAATCTGGAGCATAAAGGCACAGTTCAGAGACAGAATAACA  
 GGGATCACAAGCATGAATAAAAGGAATTTATTTGCTTCAAGTTCCTAGATACAACCTTC  
 CCATGCTGCCTTCTCCACTGTCGGAGCACGTTCCGAANAACAGATGCCTTGATCCCTGG  
 TGGGTGCGAAGGCAGTTGTTAGGGATGGCNAGCATTGGTGGGCTCAAAGATGACGNCCA  
 NACACAGTGTGCTGCTTTGGGACTGGNTGGNTGNTCTGCACCTTCTCTGGAGTAGCAAN  
 ACTAACGTA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for AK092567 unedited  
 CGGTTTATCTATGNNACCGCGCCCAATCTANNATCGAGTTTTTTTTTTTTTTTTTAA  
 ACAACACCATCTTTATTTCAAAAATATATCTGTGAGACATTTTCAAGATATACTGCTGCC  
 GCCAACGACAGCCTATACTTCTAAATAGTCTAAATTAATATACAAATTTAAGCTTTGAA  
 AATATTCTTTAAGAAAAACAAACAAACAAACAAAGGGAAGATTGAAGACTTTCTGAGGA  
 ATATGACCTAGAGGAAAGTCTTTGAGGCCTACAGATGCCCTAAGAAAGAAAAACACA  
 AAAACAAAACCACCCACCCACCCACCAAGTCACCTCATAACAAAGGAGGAAAGTTC  
 ATTTAAATTAACAAATGAAGTAAGCACACTTTGGGAGGATGTGGACAGCAGAATTAAGA  
 TTTAAAAACGAAAGCATTTTCATCAAAAACAAAACTAATCTCACAGGAAAGTCCACT  
 AGTAACAGGTATTAAGAGGCCAACACATTCATTTACATAATTGCTACAGTTTCATTTCTT  
 AACTTTTGCTGTAATAATTATGCACCAATTGCTGGTCAGAGACTCAGTTGGATAAAACAG  
 AGCAGTGGGCTAAATCCATTCTGCTATATTTTCATCTAGTTGATCAGAGCAAATATCTAC  
 GATCCTCTTTTGGCTGGATTGTGGCTGCTCANATCGCACTTCTTGGTGAAAGCATAGAG  
 TGTCACAGATGGGCTGCTCCAAAACACGCTCATCTAGAAAGCAGCACACCACGGGGGT  
 GGGGANNAGGTTTNGGNAAAATTNACACNCCNNCAAAAATTACCATTTTAAATCTTGCAA  
 TTTTAAGGAATGTCACCTATGGGCCCTGGGAAGAAAAACCTTATAGACCTCCTTTAAT  
 TTAAACGGGTGACAGAACCC

**Restriction Sites:**

NotI-NotI

**ACCN:**

AK092567

**Insert Size:**

2500 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:**

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:** [AK092567.1](#)

**RefSeq Size:** 2826 bp

**RefSeq ORF:** 2826 bp

**Locus ID:** 58490

**Cytogenetics:** 20q11.23

**Gene Summary:** Interacts with phosphorylated C-terminal heptapeptide repeat domain (CTD) of the largest RNA polymerase II subunit POLR2A, and participates in dephosphorylation of the CTD by RPAP2. Transcriptional regulator which enhances expression of CCND1. Promotes binding of RNA polymerase II to the CCDN1 promoter and to the termination region before the poly-A site but decreases its binding after the poly-A site. Prevents RNA polymerase II from reading through the 3' end termination site and may allow it to be recruited back to the promoter through promotion of the formation of a chromatin loop. Also enhances the transcription of a number of other cell cycle-related genes including CDK2, CDK4, CDK6 and cyclin-E but not CDKN1A, CDKN1B or cyclin-A. Promotes cell proliferation.[UniProtKB/Swiss-Prot Function]