

Product datasheet for **SC128116**

CCBL2 (KYAT3) (NM_019610) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CCBL2 (KYAT3) (NM_019610) Human Untagged Clone
Tag:	Tag Free
Symbol:	CCBL2
Synonyms:	RBM1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_019610, the custom clone sequence may differ by one or more nucleotides

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ATGGTTGAAGCAGATCGCCAGGAAAGCTCTTCATTGGTGGGCTTAATACGGAACAAATGAGAAAGCTC
TTGAAACAGTATTTGGCAAATATGGACGAATAGTGAAGTACTCTTGATAAAAGACCGTGAAACCAACA
ATCAAGAGGATTTGCTTTTGTACCTTTGAAAGCCAGCAGACGCTAAGGATGCAGCCAGAGACATGAAT
GGAAAGTCATTAGATGGAAAAGCCATCAAGGTGGAACAAGCCACCAACCATCATTTGAAAGAGGTAGAC
ATGGACCGCCCCACCTCCAAGAAGTAGAGGTCTCCAAGAGTTTTGGAGCTGGAAGAGGAGGAAGTGG
AGGAACCAGGGGACCTCCTTCACGAGGAGGACACATGGATGATGGTGGATATTCCATGAATTTAACATG
AGTTCTCCAGGGGACCACTCCCAGTAAAAGAGGACCACCACCAAGAAGTGGGGTCTCTCCTAAGA
GATCTGCACCTTCAGGACTAGTTCGCAGCAGCAGTGGAATGGGAGGAAGAGCTCCTCTATCACGTGGAAG
AGATAGTTATGGAGTCCACCTCGAAGGAAACCGTCCCCTCTCGTAGAGATGTTTATTTGTCCCAAGA
GATGATGGGTATTCTACTAAAGACAGCTATTCAAGCAGAGATTACCAAGTTCTCGTGATACAAGAGATT
ATGCACCACCACCAGAGATTACTTACCGTGATTATGGTCATTCCAGTTCACGTGATGACTATCCATC
AAGAGGCTATGGCGATAGAGATGGATATGGTCGTGATCGTGACTATTGATCATCCAAGTGGAGGTTCC
TACAGAGATTCATATGAGAGTTATGGTAACTCACGTAGTGCTCCACTTACACGAGGGCCCCGCCATCTT
ATGGTGAAGCAGTCGCTATGATGATTATAGCAGCTCACGTGATGGATATGGTGAAGTCGAGACAGTTA
CTCAAGCAGCCGAAGTGATCTCTACTCAAGTTGTGACAGGTTGGCAGACAAGAAAGAGGGCTTCCCCTT
TCTGTAGAAAGGGGTACCCTTCTCACGTGATTCTACAGAGTTCAAGCCGCGGAGCACAAGAGGGT
CTGGCCCTGGAGGAAGCCGATCTGATAGAGGGGAGGCAGAAGCAGATACTAG
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_019610 unedited TTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCTCGCACCCGGCAG CCGCCACTGGTGTGAGCTGCTAGGAAGCCCCTATCGCCGAGCTCGTTGGAGCTTGAACC CATTGTCACCCCTCCGACTCACC GGCCAAAAAACAATGGTTGAAGCAGATCGCC CAGGAAAGCTCTTCATTGGTGGGCTTAACGGAAACAATGAGAAAGCTCTTGAAGCAG TATTTGGCAAATATGGACGAATAGTGAAGTACTCTTGATGAAAGACCGTGAACCAACA AATCAAGAGGATTTGCTTTTGTACCTTTGAAAGCCCAGCAGACGCTAAGGATGCAGCCA GAGACATGAATGGAAGTCATTAGATGGAAAAGCCATCAAGGTGGAACAAGCCACCAAAC CATCATTTGAAAGTGGTAGAGCTGGACCGCTCCACCTCCAAGAAGTAGAGGCCCTCCAA GAGGTCTTAGAGGTGGAAGAGGAGGAAGTGGAGGAACCAGGGGACCTCCCTCACGGGGAG GACACATGGATGACGGTGGATATCCATGAATTTAACATGAGTTCTTCCAGGGGACCAC TCCAGTAAAAAGAGGACCACCACAAGAAGTGGGGTCTCTCCTAAGAGATCTGCAC CTTCAGGACCAGTTCGCAGTAGCAGTGAATGGGAGGAAGAGCTCTGTATCACGTGGAA GAGATAGTTATGGAGTCCACCTCGAAGGGAACCGCTGCCCTCTCGTAGAGAATGTTATT TGTCCTCAAGAGAGATGGGTATTCTACTAAAGACAGCTATTNCAGCAGAGATTACCCAG TTCTCGTGATACTAGAGATATGCCACCACACCAGAGATATACTTAC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_019610 unedited TTGGACGCGGCCGCACTTAGGATCGAGTTTTTTTTTTTTTTTTTTTGGCCATGTTAAAGTT TTATTAAGTTTCAATAACAAAACATTCCAAAAAGTGAAAAGTGATCTATAATACCCAAGTT CTATGTTCAACTACCAGTTAAACAAGGAAAACATTTTCTGTATCATTCTGTTTTACAACC AGTATAAACCCAGAAGAATCAAGATCTGATTCCTTTTCCACACATCTGCTAGGTCAGTAA ACTATCAAACAGGTATCTGGTCATTTTAACTACTCCTTATATTCTATTTGGTACAATC TCTATATCCTATACTATCTTCAAGATATCTAAATATCTTAAATATTTAGGGTATCTCAAG AGCCAGAAGTCTCACAGAAGCGTTAACCCAAGTAATCGTAAGAGTATAGAAAAGATTGG GCTAAGACAACACTATGGAGTGCAAAAACCACATAAATTTGGTCATTACCCTTGTGGTCTGT GATTAGTAGTAGGTTGTCAAATGAGAGTAAAAATGTTGTATTATCCCTAGTTGCAAAATG TTCCAAATAAGACAGTGCATAACTACACGACAAAAACAAAAAATCATATAAGTTG GGTTAGTTCCTCTAATCCAACAACACTCAAGTCTGTTTCTTTGAGAACATTATACTATTGG CTCTAGTCTCAAACCAATAAAAACTAAAACTGTTTCCAAGACTGGGAGGTAAGTAG GCTTATAAAAACAATACAGCAAAAAGCAAGTGGCCTAATTGTTTCCAGTGTGCTTG CCATCTTAGCATGGTTACTTTTCANATGCACTCATAAGTTTATTCTACAACAACTGT TTGTGGATAAGCCACCACAAAAATGGTTCACTTACTGACAGAACTTTACTAGAACAGCTA CCACTATTTATCATTATTTATTTCAACTAAGTCTAATTGAAGAGTGTNCCATGACTTAGC TAACAAATGAAGCCAGCTGAA</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_019610
Insert Size:	2420 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: [NM_019610.3](#), [NP_062556.2](#)

RefSeq Size: 5028 bp

RefSeq ORF: 5028 bp

Locus ID: 494115

UniProt ID: [Q96E39](#)

Cytogenetics: 1p22.2

Domains: RRM, RRM_1

Gene Summary: This gene represents a retrogene of RNA binding motif protein, X-linked (RBMX), which is located on chromosome X. While all introns in the coding sequence have been processed out compared to the RBMX locus, the ORF is intact and there is specific evidence for transcription at this location. The preservation of the ORF by purifying selection in all Old World monkeys carrying it suggests that this locus is likely to be functional, possibly during male meiosis when X chromosomal genes are silenced or during haploid stages of spermatogenesis. This gene shares 5' exon structure with the cysteine conjugate-beta lyase 2 locus on chromosome 1, but the coding sequences are non-overlapping. Alternative splicing results in two transcript variants. [provided by RefSeq, Jun 2009]

Transcript Variant: This variant (2) lacks an exon in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same protein. CCDS Note: This CCDS represents a retrogene of RBMX (RNA binding motif protein, X-linked), which is located on chromosome X. While all introns in the coding sequence have been processed out compared to the RBMX locus, the ORF is intact and there is specific evidence for transcription at this location. Studies in PMID:16201836 indicate that this locus is likely to be functional because the ORF has been preserved by purifying selection in all six Old World primates carrying this retrogene. Given that X chromosomal genes in mammals can generate a statistically significant excess of autosomal retrogenes relative to genes on other chromosomes (PMID:14739461), it is possible that this retrogene may be functional during male meiosis when X chromosomal genes are silenced or during haploid stages of spermatogenesis (PMID:16201836). In addition, it should be noted that this retrogene shares its first non-coding exon with the cysteine conjugate-beta lyase 2 (CCBL2) locus on chromosome 1, but the coding sequences are non-overlapping.