

## Product datasheet for SC128242

### Cullin 4B (CUL4B) (NM\_003588) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cullin 4B (CUL4B) (NM_003588) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cullin 4B
Synonyms:	CUL-4B; MRXHF2; MRXS15; MRXSC; SFM2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_003588 edited  
AGTTCAGTTTAGAACTGCCAGTCTTGGTATAGAACAACCTAGGCTTATCTGTTTAAAGTC  
CCATAGGTAGTATTATTAGAGAATAACCCAGGCTTTGGGAAGTATAACTCTGAGATCG  
TTTGAAATTTTCGTTTTGTTTTCTTTGGCTCCAACCAGGCCTCTGTTGTTAGACTAAT  
GGGGTTTCCCCTGCAGAGATTGGTCAGCCCTGCAGTCTATCATCCCGAAGGTGTTAAAT  
ACACATGAAAGCCAGCCTCGGCGGGCAGAACCTAGCCCGCGAAAGGGCGGGCATTGCTA  
AAGTGTTCCTCAAAGGTCTTCCCAATCCTCTGCTTTAGACAGCTCGGACCTTAGATAGAA  
GAACACAACGGATCCTCCAGTGACTGACGACCCAAAGGACGGATGATGTCACAGTCATCT  
GGATCAGGAGATGGGAATGATGATGAGGCTACTACCTCTAAAGACGGTGGTTTTCTTCC  
CCCAGTCCCTCAGCTGCTGCTGCTCAGGAGGTCAGATCTGCCACTGATGGTAATACC  
AGCACCCTCCGCCACCTCTGCCAAGAAGAGAAAGTTAAACAGCAGCAGCAGTAGCAGC  
AGTAACAGTAGTAACGAGAGAGAAGACTTTGATCCACCTCTTCTCCTCTTCCACTCCT  
CCTTTACAACCCAGGGATTCGGCATCCCCCTTCAACCTCGTCTTCTGCCTGGGGTTTCA  
GTGGCTGCTTCCAGCCACGTACCGATACAGAAGAAGCTGCGTTTTGAAGACACCTGGAG  
TTTGTAGGGTTTATGCGAAGATGGCTGAGGAATCCTCCTCCTCCTCCTCATCTTCA  
CCAAGTCTGCAACATCTCAGCAGCAGCAACTTAAAAATAAGAGTATATTAATCTCTTCT  
GTGGCTTCGGTGCATCATGCAAACGGCCTAGCCAAATCTTCTACCACCGTCTCTAGCTTT  
GCTAACAGCAAACTACACAGATGAAACCTGGCAAAAAGTAAAGATAAGCCT  
AAATTACCAGAAAACCTACACAGATGAAACCTGGCAAAAAGTAAAGATAAGCCT  
ATTCAGAATAGTACTTCAATTAAGTACAATTTAGAAGAAGTAAAGATAAGCCT  
CTCTGTTCTTACAAGATTTCTGCAAACTTGTACAACAGCTGAGACAGATCTGCGAAGAT  
CACATCAAAGCACAGATTCATCAATTCAGAGAGGATTCATTGGATAGCGTTCTTTTTTTA  
AAGAAGATTGATAGATGCTGGCAAAACCTTGCAGACAAATGATCATGATCAGGAGCATT  
TTTTTGTTCGGATAGAAGTACGTTCTTCAAGATTCATGCTACCCTCCATTTGGGAC  
ATGGGACTGGAGTATTTAGGGCTCATATTATAAGTGATCAGAAAGTGCAGAATAAGACA  
ATTGATGGCATTCTTCTTCTTATTGAGAGGGAAAGGAATGGTGAAGCAATTGATAGAAGT  
TACTTCAAGCCTTTAAGCATGCTGCTGATTTGCAAAATTTATCAAGATTCTTTTGA



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CAACGATTTTTGGAAGAACTAACCGGCTCTATGCAGCTGAAGGCCAAAAATTAATGCAA  
 GAAAGAGAGGTTCTGAATATCTACATCATGTTAAACAAACGTCTAGAAGAAGAAGCAGAC  
 AGACTTACTTACTTACTAGATCAGACCACCCAGAAGTCATTAATTGCTACTGTAGAAAAA  
 CAACTTCTAGGTGAACACTTAACAGCAATTTCTCAGAAAGGTTTAAATAACCTCCTTGAT  
 GAAAACCGAATTAAGATTTGTCTCTTGTATCAGCTTTCAGTAGAGTTCGAGGTGGA  
 GTTCAGGTTCTTTGCAGCAGTGGATCGAATATATCAAGGCATTTGGCAGCACTATTGTA  
 ATTAATCCTGAAAAAGATAAAACCATGGTTCAAGAATTGCTGGATTTTAAAGATAAGGTT  
 GACCATATAATTGATATCTGCTTTCTGAAGAATGAGAAATTTATCAATGCCATGAAAAGAA  
 GCATTTGAAACGTTCAATTAACAAAAGACCAAATAAACCCAGCTGAACTTATAGCTAAGTAT  
 GTAGATCAAAAACCTTCGTGCAGGCAACAAAAGAGCTACAGATGAAGAAGTTGAGAAAAATG  
 TTGGATAAAAATTATGATCATATTTAGATTTATCTATGGCAAGGATGTTTTGAGGCCTTC  
 TATAAGAAAGATTTAGCCAAGCGCTGTAGTCGGAAAGAGTGCATCTGTAGATGCTGAA  
 AAATCAATGCTGTCCAACTTAAACATGAATGCGGAGCTGCTTTCACCAGCAAACCTGAA  
 GGAATGTTTAAAGACATGGAACCTTCTAAAGACATCATGATTCAGTTCAAACAGTATATG  
 CAGAATCAGAATGTTCCGGGAAATATTGAGTTAACTGTGAATATCCTGACATGGGCTAT  
 TGGCCGACATATGTGCCATGGAAGTTCATTTACCACCAGAGATGGTAAAACCTCAGGAG  
 ATTTTCAAGACATTTTACCTAGGCAAACATAGTGGCAGGAAACTTCAGTGGCAGTCAACC  
 ATAGGACACTGTGTGTTAAAAGCAGAAATTAAGAGGGTAAAAAGGAACTCCAGGCTCTCT  
 CTTTTTCAAACACTGGTGTCTAATGTTTAAAGAGGAGAGGTTTCAAGTTAGAAAGAG  
 ATCAAGCAGGCAACTGGAATAGAGGATGGAGAGTTAAGGAGAACACTGCAGTCATTAGCC  
 TGTGGCAAAGCTAGAGTTCTGGCGAAAAATCCAAGGGCAAAGACATTGAAGATGGTGAC  
 AAGTTCATTTGTAATGATGATTTCAAACATAAACTTTTTCAGGATAAAGATCAATCAAATC  
 CAGATGAAAGAAACGGTTGAAGAACAAGCAAGCACTACAGAAAGAGATTTTCAAGACAGA  
 CAGTATCAAATTGATGCTGCAATTGTTCCGAATTATGAAGATGAGAAAGACACTTAGCCAC  
 AATCTCCTTGTTCAGAAGTGTACAACAGTTGAAATTTCCAGTAAAGCCTGCTGATCTT  
 AAGAAGAGAATAGAATCTTTAATTGACCGGACTACATGGAAAGAGATAAAGAAAATCCA  
 AACCAAGTACAATATATTGCATAGAATGTTGGCCTTGCAGCATTGGTGTGATATGCAGT  
 AGCCAGTGGATAAACTAACCTGTTGATTCAATATTTTACTCCTTTTTTACTACCGAT  
 GACCAAATGAAGCAGTGAATTAATAAAAAAAAAAAAAAAAAA

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_003588 unedited  
 GGGCAGTTCAAATTTGTATACGACTCACTATAGNNCGGCCGCATAACTTCGTATAGCAT  
 ACATTATACGAAGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTCGAGAGCGGA  
 GTTCAGTTTAAAGACTGCCAGTCTTGGTATAGAACAACCTAGGCTTATCTGTTTAAAGTCC  
 CATAGGTAGTATTATTAGAGAATAACCCAGGCTTTGGAACTGTAACTCTGAGATCGT  
 TTGAAATTTTCGTTTTGTTTTCTTTGGCTCCAACCAGGCTCTGTTGTTAGACTAATG  
 GGGTTTCCCTGCAGAGATTGGTCAGCCCTGCAGTCTATCATCCCGGAAGGTGTTAATA  
 CACATGAAAGCCAGCCTCGGCCGAGAACCTAGCCCGCCGAAAGGGCGGCATTGCTAA  
 AGTGTTCCTCAAAGGCTTCCCAATCCTCTGCTTTAGACAGCTCGGACCTTAGATAGAAG  
 AACACAACGGATCCTCCAGTGACTGACGACCCAAAGGACGGATGATGTCACAGTCATCTG  
 GATCAGGAGATGGGAATGATGATGAGGCTACTACCTCTAAAGACGGTGGTTTTTCTTCCC  
 CAGTCCCTCAGTGTGCTGCTGCTCAGGAGGTCAGATCTGCCACTGATGGTAATACCA  
 GCACCACTCCGCCACCTCTGCCAAGAAGAGAAAGTTAAACAGCAGCAGCAGTAGCAGCA  
 GTAACAGTAGTAACGAGAGAGAAGACTTTGATTCCACCTTTTCTCCTCTCCACTCCTC  
 CTTTACAACCCAGGNATTCGGCATCCCCTTTACCTCGTCCTTCTGCCTGGGGTTTCAG  
 TGGCTGCTTNCAGCCCN

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_003588

**Insert Size:**

3300 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_003588.2</a> , <a href="#">NP_003579.2</a>
<b>RefSeq Size:</b>	3278 bp
<b>RefSeq ORF:</b>	2742 bp
<b>Locus ID:</b>	8450
<b>UniProt ID:</b>	<a href="#">Q13620</a>
<b>Cytogenetics:</b>	Xq24
<b>Domains:</b>	CULLIN
<b>Protein Pathways:</b>	Nucleotide excision repair, Ubiquitin mediated proteolysis
<b>Gene Summary:</b>	<p>This gene is a member of the cullin family. The encoded protein forms a complex that functions as an E3 ubiquitin ligase and catalyzes the polyubiquitination of specific protein substrates in the cell. The protein interacts with a ring finger protein, and is required for the proteolysis of several regulators of DNA replication including chromatin licensing and DNA replication factor 1 and cyclin E. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>