

Product datasheet for **MC222908**

Cul4b (NM_028288) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cul4b (NM_028288) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cul4b
Synonyms:	2700050M05Rik; AA409770; CUL-4B; mKIAA0695
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>MC222908 representing NM_028288
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCACGTTCAACTAGTCTAAAGAAAGAAGAGAGAATGACACCGACTCAGAAGATAACAGTTCGGAAA
 CCTCCAATCAAGAGCGCCGAAGGTGTCCCAAGGTCCGCCCGCCCTCCCTATCCACCTCTTTACCCCC
 CGTGTTCCCTCCCAACCCCCACCTCAAGTCCGGCGGACCCGGGGGTTTCCAGGATCTGGGAGCTATG
 AAAAGTGTCTGCCAGGCACTTCCGGTTTTTCTCCCAATCCCTCTGCTGCTTCTGCTGCTCAGG
 AGGTCAGATCTGCCACTGATGGTAATACCAGCACCCTCCGCCACCTCTGCCAAGAAGAGAAAGTTAAA
 CAGCAGCAGTAGCAGCAGTAACAGTAGTAACGAGAGAGAAGACTTTGATTCACCTCTTCTCTCCACC
 CCTCCACAACCCAGAGATTCGGCGTCCCCTTCAACCTCGTCTTCTGCCTTGGGGTTCAGTGGCCACTT
 CCAGCCACGTACCTATACAGAAGAAGCTGCGGTTTGAAGACACCCTGGAGTTTGTAGGGATTGATACGAA
 AATGGCTGAGGAATCTTCTCCTCATCTTCTCATCTTCCGCAACTGCTGCAACCTCACAGCAGCAGCAG
 CAGCAACAACCTAAAACCTAAGAGTATATTAATTTCTTCTGTGGCTTCAGTGCACCATGCAAAACGGCTGG
 CTAATCTTCTACCGCGTCTCTAGCTTTGCTAACAGCAAGCCCGGCTCAGCTAAGAAGTTAGTGATCAA
 GAACCTTTAAAGATAAGCCTAAATACCAGAAAATACGGATGAGACATGGCAAAAGCTAAAAGAAGCA
 GTGGAAGCCATTGAGAATAGTACTTCAATTAAGTACAATTTAGAAGAAGCTTACCAGGCTGTAGAAAATC
 TTTGTTCTCATAAGATTTCTGCAAAATTTGTATAAGCAGCTGAGGCAGATATGTGAAGATCACATCAAAGC
 ACAGATTCATCAGTTCAGAGAGGATTATTGGATAGTGTCTTTTTCTCAAAAAGATCGATAGATGCTGG
 CAAAACCACTGTAGGCAATGATAATGATCAGGAGCATTTTTTTGTTTCTGGATAGAAGCTATGTTCTTC
 AGAATCAATGCTACCTCCATTTGGGACATGGGATTAGAGTATTTAGGGCTCATATTAAGTGATCA
 AAAAGTACAGACAAAACGATTGATGGCATCCTTCTCTTGATTGAGAGAGAGCGGAATGGTGAAGCAATT
 GATAGAAGTTTACTTCGAAGCCTTTAAGTATGCTGTCTGATTTGCAAAATTTACCAAGATCTTTTGAAC
 AGCAATTTTGAAGAACTAATCGGCTTTACGCAGCCGAAGGTCAGAAGTTAATGCAAGAAAGAGAGGT
 TCCTGAGTATCTTCATCATGTTAATAAACGCCTAGAAGAAGAAGCTGACAGACTTATTACTTACTTAGAT
 CAGACCACCCAGAAGTCACTAATTGCTTCTGTTGAAAAACAATCTAGGTGAACACTTAACGGCAATTC
 TTCAAAAAGGTTTAAATAGCCTCCTTGATGAAAACCGAATCAAGATTTGTCTCTCTGTATCAGCTCTT
 CAGTAGAGTTCGGGTGGAGTTCAGGTTCTTACAGCAGTGGATTGAGTATATCAAGGCTTTTGAAGT
 ACCATTGTTATTAATCCTGAAAAAGATAAACTATGGTTCAAGAATTATTGGACTTTAAAGATAAAGTTG
 ACCATATAAATTGATACCTGCTTTCTGAAAAATGAAAAATTTATCAATGCCATGAAAGAAGCTTTTGAAC
 ATTCATTAATAAAAAGACCAATAAGCCAGCTGAAGTATAGCTAAGTATGTGGATTCAAAAACCTCGTGCA
 GGCAACAAAGAAGCTACAGATGAAGAGCTTGAGAAAATGTTGGATAAAAATAATGATTATATTTAGATTTA
 TCTATGGTAAAGATGTTTTGAGGCCTTCTATAAGAAAGATTTAGCCAAACGCCTATTAGTTGGCAAGAG
 TGCATCAGTAGATGCTGAAAAATCAATGCTGTCCAACTGAAACACGAATGTGGAGCCGCTTTTACCAGC
 AAGCTTGAAGGAATGTTCAAAGACATGGAGCTTCTAAAGATATCATGATTCAGTTTAAACAGTATATGC
 AGAACCAGAATGTACCTGGCAATATTGAATTAAGTGTAAATATCTGACAATGGGTTACTGGCCAACATA
 TGTGCTATGGAAGTCCATTTGCCGCCAGAGATGGTAAAGCTTCAAGAAATTTTCAAGACATTTTACTTTA
 GGCAAGCACAGTGGCAGGAACTCCAGTGGCAGTCAACCTTGGGACACTGTGTGCTAAAAGCTGAATTTA
 AAGAGGGCAAAAAGAAGCTTCAAGTCTCTTTTTTCAAACCATGGTGTCTGCTAATGTTTAAATGAAGGAGA
 AGAATTCAGTTTAGAAGAGATCAAGCATGCTACTGGGATAGAGGATGGAGAATTAAGAAGAAGACTGCAG
 TCACTAGCCTGTGGCAAAGCTAGAGTCTGGCTAAAAATCCTAAGGGCAAAGATTTGAAGATGGTGACA
 AATTTATTTGTAATGACGATTTCAAACACAACTATTCAAGATAAAGTCAATCAATCCAGATGAAAGA
 AACGGTTGAAGAACAAGCAAGCACTACAGAAAGAGTATTTCAAGACAGACAGTACCAATTTGATGCTGCG
 ATCGTTGCAATTAAGATGAGAAAAACACTTAGCCACAATCTTCTGTTTTCAGAAGTCTACAATCAGC
 TAAAATTTCCAGTTAAACCTGCTGATCTTAAGAAGAGAATAGAATCCCTCATTGACCGGGACTACATGGA
 AAGAGATAAAGAAAATCCAAATCAGTACAATATATTGCAT**AG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_028288
Insert Size:	2913 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:	<ol style="list-style-type: none">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_028288.5 , NP_082564.3
RefSeq Size:	5020 bp
RefSeq ORF:	2913 bp
Locus ID:	72584
UniProt ID:	A2A432
Cytogenetics:	X A3.3
Gene Summary:	Core component of multiple cullin-RING-based E3 ubiquitin-protein ligase complexes which mediate the ubiquitination and subsequent proteasomal degradation of target proteins. The functional specificity of the E3 ubiquitin-protein ligase complex depends on the variable substrate recognition subunit. CUL4B may act within the complex as a scaffold protein, contributing to catalysis through positioning of the substrate and the ubiquitin-conjugating enzyme. Plays a role as part of the E3 ubiquitin-protein ligase complex in polyubiquitination of CDT1, histone H2A, histone H3 and histone H4 in response to radiation-induced DNA damage. Targeted to UV damaged chromatin by DDB2 and may be important for DNA repair and DNA replication. Required for ubiquitination of cyclin E, and consequently, normal G1 cell cycle progression. Regulates the mammalian target-of-rapamycin (mTOR) pathway involved in control of cell growth, size and metabolism. Specific CUL4B regulation of the mTORC1-mediated pathway is dependent upon 26S proteasome function and requires interaction between CUL4B and MLST8 (By similarity). With CUL4A, contributes to ribosome biogenesis (By similarity).[UniProtKB/Swiss-Prot Function]