

## Product datasheet for **RG220405**

### Cullin 4B (CUL4B) (NM\_001079872) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cullin 4B (CUL4B) (NM_001079872) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cullin 4B
Synonyms:	CUL-4B; MRXHF2; MRXS15; MRXSC; SFM2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG220405 representing NM\_001079872  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTTTCCAACAGGTTTTTCTTCCCCAGTCCCTCAGCTGCTGCTGCTCAGGAGTCCAGATCTGCCA  
 CTGATGGTAATACCAGCACCACTCCGCCACCTCTGCCAAGAAGAGAAAGTTAAACAGCAGCAGCAGTAG  
 CAGCAGTAACAGTAGTAACGAGAGAGAAGACTTTGATTCCACCTCTTCTCCTCTTCCACTCCTCTTTA  
 CAACCCAGGGATTCGGCATCCCCTTCAACCTCGTCTTCTGCCTGGGGTTTCAGTGGTCTTCCAGCC  
 ACGTACCGATACAGAAGAAGCTGCGTTTTGAAGACACCCTGGAGTTTGTAGGTTTGTGCGAAGATGGC  
 TGAGGAATCCTCCTCCTCCTCCTCATCTTACCAACTGCTGCAACATCTCAGCAGCAGCAACTTAAA  
 AATAAGAGTATATTAATCTTCTGTGGCTTCGGTGCATCATGCAAACGGCTAGCCAAATCTTCTACCA  
 CCGTCTCTAGCTTTGCTAACAGCAAACCTGGCTCTGCTAAGAAGTTAGTGATCAAGAAGTTTAAAGATAA  
 GCCTAAATACCAGAAAACCTACACAGATGAAACCTGGCAAAAACGAAAGAAGCAGTGGAAGCTATTCAG  
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 TTTCTGCAAACTTGTACAAACAGCTGAGACAGATCTGCGAAGATCACATCAAAGCACAGATTCATCAATT  
 CAGAGAGGATTCATTGGATAGCGTTCTTTTTTAAAGAAGATTGATAGATGCTGGCAAAACCATTGCAGA  
 CAAATGATCATGATCAGGAGCATTTTTTTGTTTCTGGATAGAAGTTACGTTCTTTCAGAAATCAATGCTAC  
 CCTCCATTTGGGACATGGGACTGGAGTTATTTAGGGCTCATATTATAAGTGATCAGAAAGTGCAGAAATA  
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 TGAAAAATCAATGCTGTCCAACTTAAACATGAATGCGGAGCTGCTTTCACCAGCAAACTTGAAGGAATG  
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 AGCAAGCACTACAGAAAGAGTATTTCAAGACAGACAGTATCAAATTTGATGCTGCAATTTGTTGCAATTTATG  
 AAGATGAGAAAGACACTTAGCCACAATCTCCTTGTTCAGAAAGTGTACAACCAAGTTGAAATTTCCAGTAA  
 AGCCTGCTGATCTTAAGAAGAGAATAGAATCTTTAATTGACCGGGACTACATGGAAGAGATAAAGAAAA  
 TCCAAACCACTACAATATTGCA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – **GTTTAA**

**Protein Sequence:** >RG220405 representing NM\_001079872  
 Red=Cloning site Green=Tags(s)

MFPTGFSSPSPSAAAAAQEVRSATDGNTSTTPPTSAKKRKLNSSSSSSSSNSSNEREDFDSTSSSSSTPPL  
 QPRDSASPSTSSFC LGVSAASSHVPIQKLR FEDTLEFVGFDAKMAEESSSSSSSSPTAATSQQQLK  
 NKSILISSVASVHHANGLAKSSTTVSSFANSKPGSAKLVIKNFKDKPKLPENYTD ETWQKLKEAVEAIQ  
 NSTSIKYNLEEL YQAVENLCSYKISANL YKQLRQICEDHIKAQIHQFREDSLDSVLFLKKIDRCWQNHCR  
 QMIMIRSIFLFLDRTYVLQNSMLPSIWDMLLEL FRAHIIISDQKVQNKTI DGILLI IERERNGE AIDRSLL  
 RSLLSMLSDLQIYQDSFEQRFL EETNRL YAAEQKLMQEREVPEYLH HVNKRLEEADRLITYLDQTTQK  
 SLIATVEKQLLGEHLT AILQKGLNNLLDENRIQDLSLLYQLFSRVRGGVQVLLQQWIEYIKAFGSTIVIN  
 PEKDKTMVQELLDFKDKVDHIIDICFLKNEKFINAMKEAFETFINKRPNKPAELIAKYVDSKLRAGNKEA  
 TDEELEKMLDKIMII FRFIYGKDVFEAFYKDLAKRLLVGKSASVDAEKSM LSKLKHECGAAFTSKLEGM  
 FKDMELSKDIMIQFKQYMQNQNVPGNIELTVNILT MGYWPTYVPMVHLPPMVKLQEIFKTFYLGKHS  
 RKLQWQSTLGHCVLKAEFKEGKELQVSLFQTLVLLMFNEGEEF SLEEIKQATGIEDGELRRTLQSLACG  
 KARVLAKNPKGKDIEDGDKFICNDDFKHKLFR IKINQIQMKETVEEQAST TERVFQDRQYIDAAIVRIM  
 KMRKTL SHNLLVSEVYNQLKFPVKPADLKKRIESLIDRDYMERDKENPNQYNYIA

TRTRPLE - GFP Tag - V

**Restriction Sites:**

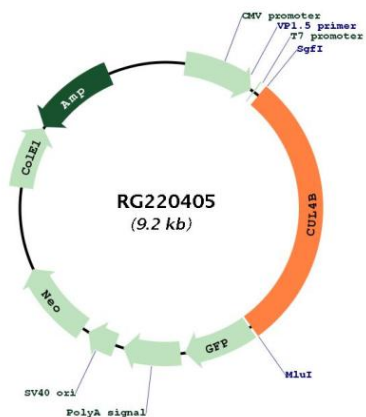
SgfI-MluI

**Cloning Scheme:**



<b>ACCN:</b>	NM_001079872
<b>ORF Size:</b>	2685 bp
<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_001079872.2</a>
<b>RefSeq Size:</b>	5198 bp
<b>RefSeq ORF:</b>	2688 bp
<b>Locus ID:</b>	8450
<b>UniProt ID:</b>	<a href="#">Q13620</a>
<b>Cytogenetics:</b>	Xq24
<b>Protein Pathways:</b>	Nucleotide excision repair, Ubiquitin mediated proteolysis
<b>Gene Summary:</b>	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]

Product images:



Circular map for RG220405