

Product datasheet for **RG208066**

Cullin 3 (CUL3) (NM_003590) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cullin 3 (CUL3) (NM_003590) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cullin 3
Synonyms:	CUL-3; NEDAUS; PHA2E
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG208066 representing NM_003590
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCGAATCTGAGCAAAGGCACGGGCAGCCGGAAGGACACCAAGATGCGGATCCGGCCTTTCCGATGA
 CCATGGATGAAAAATATGTAACAGCATTGGGACCTTCTGAAAAATGCAATTCAGAAATCCAGCGTAA
 GAATAACAGTGGTCTTAGTTTTGAGGAGCTCTATAGAAATGCATATACAATGGTTTTGCATAAACATGGA
 GAAAAGCTCTACACTGGACTAAGAGAAGTTGTTACCGAACATCTCATAAATAAGGTGCGAGAAGATGTAC
 TAAATTCATTGAATAACAACCTTTCTTCAAACGCTAAATCAAGCTTGGAAATGATCATCAAACAGCTATGGT
 GATGATTAGAGACATACTAATGTACATGGACCGTGTGTATGTACAACAAAATAATGTGGAGAACGCTAC
 AATTTGGGATTAATTTTTTCGAGATCAAGTTGTACGTTATGGGTGATTTAGGGATCATCTACGGCAA
 CTCTATTGGATATGATTGCAAGAGAGCGGAAAGGAGAAGTCGTAGACAGAGGCGCAATAAGAAATGCTTG
 CCAGATGTTAATGATTTTAGGTCTCGAAGGAAGATCAGTCTATGAAGAAGATTTTGGAGCTCTTTTTTG
 GAAATGCTGCAGAAATTTTTTCAGATGGAAAGCCAGAAATTTTTAGCAGAAAATAGTGCTTCAGTATATA
 TAAAGAAAGTAGAAGCTAGAATTAATGAAGAAATAGAACGAGTGTGACTGCCTTGACAAATCAACGGA
 AGAACCAATTGTAAGGTGGTTGAAAGGGAACCTATTTCCAAGCACATGAAGACTATAGTAGAAATGGAG
 AATTCTGGGCTAGTACATATGTTGAAAAATGGAAGACAGAAGACCTTGGTTGCATGTACAAGTTATTTA
 GTCGTGTGCCAAATGGTTTGAACAATGTGTGAGTGTATGAGTTCCTATTTGAGGGAGCAAGGTAAGC
 TCTTGTCTGAAGAAGGAGAAGGAAAGAAATCCTGTTGACTATATCCAGGGCTTATTGGATCTGAAGAGT
 AGGTCGATCGCTTCTCCTGGAATCATTCAACAATGACCGTCTCTTTAAACAACTATTGCGGGTGACT
 TTGAGTATTTCTCAACCTCAACTCCAGGTCTCCTGAATACCTCATTATTTATTGATGATAAGAGTAA
 AAAGGGAGTCAAAGGGCTAACAGAACAAGAAGTAGAAACAATATTGGATAAAGCAATGGTCTTTTTAGG
 TTTATGCAAGAAAAGATGTATTTGAACGTTATTATAACAACACTTGGCAAGGAGACTTCTCACAAATA
 AAAGTGTCTGATGACTCTGAAAAAACATGATATCTAAGTTAAAGACTGAATGTGGATGTCAGTTCAC
 GTCAAACTGGAAGGAATGTTTAGGGATATGAGCATCTCAAACACAACGATGGATGAATTCAGGCAACAT
 CTACAGGCAACTGGTGTATCTTTAGGTGGTGTGATCTTACAGTCCGGGTGCTCACGACAGGATATTGGC
 CCACTCAGTCAGCCACACCAAGTGCAACATCCCACCAGCACCAAGACATGCTTTTGAGATATTCAGAAG
 GTTCTACTTAGCCAAACACAGTGGTCGACAGCTCACACTCCAGCATCATATGGGTCTGCAGATCTCAAT
 GCCACATTTTATGGACCAGTTAAAAGGAAGATGGATCTGAAGTTGGTGTGGAGGTGCACAAGTAACTG
 GCTCTAATACACGGAAGCACATATTGCAAGTTTCCACTTTCAGATGACCATATTAATGCTCTTTAATAA
 TAGAGAAAAATACACATTTGAGGAAATTCAGCAAGAGACAGATATCCCTGAAAGAGAGCTTGTAGAGCC
 CTACAGTCCCTCGCTGTGGTAAACCAACACAGCGGGTCTTACAAAAGAACCCTCAAAAGGAAATAG
 AAAATGGTCATATATTTACAGTTAATGATCAGTTCACATCCAACTACACAGAGTCAAGATTCAAACAGT
 TGCTGCCAAACAAGGTGAATCCGACCCAGAGAGGAAAGAAACAAGGCAGAAAGTAGACGACGACAGAAAA
 CATGAGATAGAAGCTGCTATAGTGCGGATAATGAAATCTAGAAAGAAGATGCAGCACAATGTTCTAGTAG
 CGGAGGTAACCTCAGCAGTTGAAGGCGGATTCTTACCAAGTCCAGTTGTTATTAAGAAACGTATTGAAGG
 ACTTATTGAGAGAGAATTTTGGCACGAACACCTGAGGATCGCAAAGTATACACATATGTAGCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

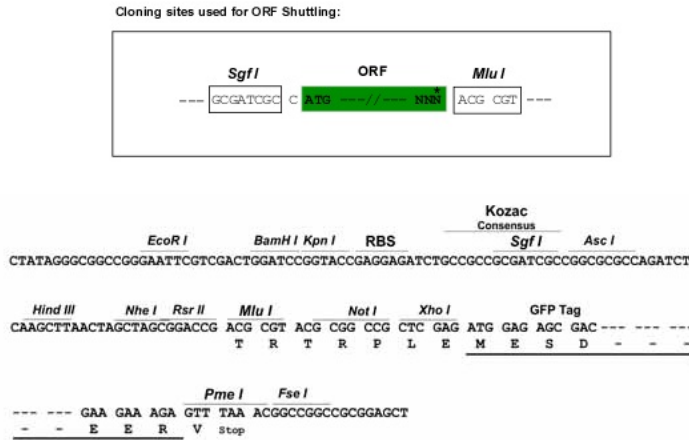
Protein Sequence: >RG208066 representing NM_003590
 Red=Cloning site Green=Tags(s)

MSNLSKGTGSRKDTKMRIRAFPMTMDEKYVNSIWDLLKNAIQEIQRKNNSGLSFEELYRDAYTMVLHKHG
 EKLYTGLREVVTEHLINKVREDVLSLNNNFQTLNQAWNDHQTAMVMIRDILMYMDRVVYQNNVENVY
 NLGLIIFRDQVRYGCIRDHLRQTLDDMIARERKGEVDRGAIACQMLMILGLEGRSVYEDFEAPFL
 EMSAEFFQMESQKFLAENSASVYIKKVEARINEEIERVMHCLDKSTEETPKVVERELISKHMKTI VEME
 NSGLVHMLKNGKTEDLGCMYKLSRVPNGLKTMCEMSSYLREQKALVSEEGEGKNPVDYIQGLLDLKS
 RFDRFLLESFNDRFLFKQTIAGDFEYFLNLSRSPEYLSLFIIDDKLKKGVKGLTEQEVEITLTKAMVLF
 FMQEKDVFERYKQHLARRLLTNKSVSDDSEKNMISKLKTECGCQFTSKLEGMFRDMSISNTTMDERQH
 LQATGVSLLGGVDLTVRVLTTGYWPTQSATPKCNIPAPRHAFFRFRFLAKHSGRQLTLQHMGSAADLN
 ATFYGPVKKEDGSEVGVGAQVTSNTRKHILQVSTFQMTILMLFNNREKYTFEEIQQETDIPERELVRA
 LQSLACGKPTQRVLTKEPKSKEIENGHIFTVNDQFTSKLHRVKIQTVAAKQGESDPERKETRQKVDDDRK
 HEIEAAIVRIMKSRKKMQHNVLVAEVTQQLKARFLPSPVVIKKRIEGLIEREYLARTPEDRKVYTYVA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

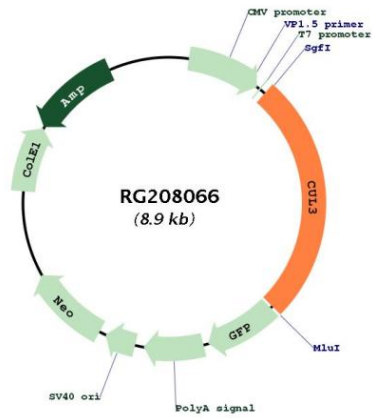


ACCN: NM_003590

ORF Size: 2304 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. More info</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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:	<p>NM_003590.2, NP_003581.1</p>
RefSeq Size:	<p>6787 bp</p>
RefSeq ORF:	<p>2307 bp</p>
Locus ID:	<p>8452</p>
UniProt ID:	<p>Q13618</p>
Cytogenetics:	<p>2q36.2</p>
Domains:	<p>CULLIN</p>
Protein Families:	<p>Druggable Genome</p>
Protein Pathways:	<p>Ubiquitin mediated proteolysis</p>
Gene Summary:	<p>This gene encodes a member of the cullin protein family. The encoded protein plays a critical role in the polyubiquitination and subsequent degradation of specific protein substrates as the core component and scaffold protein of an E3 ubiquitin ligase complex. Complexes including the encoded protein may also play a role in late endosome maturation. Mutations in this gene are a cause of type 2E pseudohypoaldosteronism. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Mar 2012]</p>

Product images:



Circular map for RG208066