

Product datasheet for **SC322625**

Cullin 3 (CUL3) (NM_003590) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cullin 3 (CUL3) (NM_003590) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cullin 3
Synonyms:	CUL-3; NEDAUS; PHA2E
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for SC322625
CCGGCGCAGTGAGATGTTTGTCCGTCGCGCCGCCGCCATCGCGGAGGAGCGCGATA
AAGGGAGCCGAGCCGGACGTGAGGGGGACCCCGCGGAGCCGCCGCGCCAGCGCAGCCCC
CAGCCGCATCGGAGTCGCGAGAGTCCGAGCCGCCGCCGCCGCCGCCGCCGCCGCCGCC
GGCTGCCAGGGGCCGGCCAGCTCCCCAGCCCTGCCCGGGGGTCGCGCCGCCGCCGCC
CAGCGTCGCCCCTAGCCTGCCTGCCCGCCTTAAATGTGACACCGCGCTCGCGGAGCGGA
CCTGAAGCCGCCGCCGGGAGGGGACGAGCACCATGTCGAATCTGAGCAAAGGCACGGGC
AGCCGGAAGGACACCAAGATGCGGATCCGGGCCTTCCGATGACCATGGATGAAAAATAT
GTAACAGCATTGGGACCTTCTGAAAAATGCAATTCAAGAAATCCAGCGTAAGAATAAC
AGTGGTCTTAGTTTTGAGGAGCTCTATAGAAATGCATATAACAATGGTTTTGCATAAACAT
GGAGAAAAGCTCTACACTGGACTAAGAGAAGTTGTTACCGAACATCTCATAAATAAGGTG
CGAGAAGATGACTAAATTCATTGAATAACAACCTTTCTCAAACGCTAAATCAAGCTTGG
AATGATCATCAAACAGCTATGGTGATGATTAGAGACATACTAATGTACATGGACCGTGTG
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CAAGTTGTACGTTATGGGTGATTAGGGATCATCTACGGCAAACCTATTGGATATGATT
GCAAGAGAGCGGAAAGGAGAAGTCGTAGACAGAGCGCAATAAGAAATGCTTGCCAGATG
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ACAATATTGGATAAAGCAATGGTCTTTTTAGGTTTATGCAAGAAAAAGATGATTTGAA
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TCTGAAAAAACATGATATCTAAGTTAAAGACTGAATGTGGATGTCAGTTCACGTCAAAA
CTGGAAGGAATGTTTAGGATATGAGCATCTCAAACACAACGATGGATGAATTCAGGCAA
CATCTACAGGCAACTGGTGTATCTTTAGGTGGTGTGATCTTACAGTCCGGGTGCTCAGG
ACAGGATATTGGCCCACTCAGTCAGCCACACCAAGTGCAACATCCCACCAGCACCAAGA
CATGCTTTTGAGATATTCAGAAGTTCTACTTAGCCAAACACAGTGGTCGACAGCTCACA
CTCCAGCATCATATGGGTTCTGCAGATCTCAATGCCACATTTTATGGACCAGTAAAAAG
GAAGATGGATCTGAAGTTGGTGTGGAGGTGCACAAGTAACTGGCTCTAATACACGGAAG
CACATATTGCAAGTTCCACTTCCAGATGACCATATTAATGCTCTTTAATAATAGAGAA
AAATACACATTTGAGGAAATTCAGCAAGAGACAGATATCCCTGAAAGAGAGCTTGTTAGA
GCCCTACAGTCCCTCGCCTGTGGTAAACCAACACAGCGGGTCTTACAAAAGAACCCTAAA
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CACAGAGTCAAGATTCAAACAGTTGCTGCCAAACAAGGTGAATCCGACCCAGAGAGGAAA
GAAACAAGGCAGAAAGTAGACGACGACAGAAAACATGAGATAGAAGCTGCTATAGTGC GG
ATAATGAAATCTAGAAAGAAGATGCAGCACAATGTTCTAGTAGCGGAGGTAACCTCAGCAG
TTGAAGGCGGATTTACCAAGTCCAGTTGTTATTAAGAAACGTATTGAAGGACTTATT
GAGAGAGAATATTTGGCACGAACACCTGAGGATCGCAAAGTATACACATATGTAGCATAA
AATGCGTTCAGAAATTTGATTTATCTTGGACTGTACTCTTCGCATGGACTGGGAAGTTC
TTTTAAATCATTAAATATTAAGACGACCATCTCTTCTATTAATACAGTACATGTTCTA
GACCATTGAGATCAAGCCTTACTCCCTTTGAGAGTTTCCAACATCAGTTGATTGAGCTT
CAGGCTTTACAACGTTTATCCCTGTAGAGATCATCTTTACAGTTCCTCGGAAAAATGTGA
ATGTGCTGCGTTTTGTTTTCTTACTGTATGAAAAAGGAAAAATAAAGAGAAATTTAGA
AAATACAGCTCATTACAATAAAATGTTGGATTCAAAAAAAAAAAAAAAAAAAAA

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Restriction Sites:	Please inquire
ACCN:	NM_003590
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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_003590.2</u> , <u>NP_003581.1</u>
RefSeq Size:	6787 bp
RefSeq ORF:	2307 bp
Locus ID:	8452
UniProt ID:	<u>Q13618</u>
Cytogenetics:	2q36.2
Domains:	CULLIN
Protein Families:	Druggable Genome
Protein Pathways:	Ubiquitin mediated proteolysis

Gene Summary:

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]

Transcript Variant: This variant (1) encodes isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.