

Product datasheet for **SC207325**

Cullin 1 (CUL1) (NM_003592) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	Cullin 1 (CUL1) (NM_003592) Human 3' UTR Clone
Symbol:	Cullin 1
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_003592
Insert Size:	558 bp
Insert Sequence:	>SC207325 3'UTR clone of NM_003592 The sequence shown below is from the reference sequence of NM_003592. The complete sequence of this clone may contain minor differences, such as SNPs. Blue =Stop Codon Red =Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GAAAAGGACACCTACAGTTACTTGGCTTACCCTTCTGGAAGGGTCTGACTGTGTGACCCGAGCAAAT
AGTTCATGTTGGAAAGAATGAAAACAACCAAGTTCATAGCAGCCAGCCTGCCGCCATTGGACCTCCCT
TTTTAAAACTGAGACCAAGACTCCCATCAGCTGGTCTCGGATTTACATCGGAAGTCTCAGGATTGATA
CATTTCAGTCTGTAATACGGACACCAACGCCATTTACCCTAATTTAAGAACAGCGGGGACTGACCCCT
CGTGCCGAGGGCTGCATGCTACCGCACTAAGTCAATACATGGGCTCCCCGATTTCGAGCTGTCGTCTT
GGCAGCACTTGTCACGTTGGCAGCACTTTGAGAGCAAGTCTGAGTGGACCCACATGTAACCTGCTATGA
AAACCATTTGTATAGTGTGTTTCATTTTTAATGTGTGAAAAATAAGAAAATTAAGGATTTCTGTACA
AGTCGATTGGGTTTTGTTTTAAGTTTTACTAATTTCTATATGTAATAAAGATATAATGATTGTGCA
AATTTA
ACGCGTAAGCGGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTTGATTCCACCGCCCTTCTATGAAAGG
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Restriction Sites:	Sgfl-MluI
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).



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Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	NM_003592.3
Summary:	<p>Core component of multiple cullin-RING-based SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complexes, which mediate the ubiquitination of proteins involved in cell cycle progression, signal transduction and transcription. SCF complexes and ARIH1 collaborate in tandem to mediate ubiquitination of target proteins (PubMed:27565346). In the SCF complex, serves as a rigid scaffold that organizes the SKP1-F-box protein and RBX1 subunits. May contribute to catalysis through positioning of the substrate and the ubiquitin-conjugating enzyme. The E3 ubiquitin-protein ligase activity of the complex is dependent on the neddylation of the cullin subunit and exchange of the substrate recognition component is mediated by TIP120A/CAND1. The functional specificity of the SCF complex depends on the F-box protein as substrate recognition component. SCF(BTRC) and SCF(FBXW11) direct ubiquitination of CTNNB1 and participate in Wnt signaling. SCF(FBXW11) directs ubiquitination of phosphorylated NFKBIA. SCF(BTRC) directs ubiquitination of NFKBIB, NFKBIE, ATF4, SMAD3, SMAD4, CDC25A, FBXO5 and probably NFKB2. SCF(BTRC) and/or SCF(FBXW11) direct ubiquitination of CEP68 (PubMed:25704143, PubMed:25503564). SCF(SKP2) directs ubiquitination of phosphorylated CDKN1B/p27kip and is involved in regulation of G1/S transition. SCF(SKP2) directs ubiquitination of ORC1, CDT1, RBL2, ELF4, CDKN1A, RAG2, FOXO1A, and probably MYC and TAL1. SCF(FBXW7) directs ubiquitination of CCNE1, NOTCH1 released notch intracellular domain (NICD), and probably PSEN1. SCF(FBXW2) directs ubiquitination of GCM1. SCF(FBXO32) directs ubiquitination of MYOD1. SCF(FBXO7) directs ubiquitination of BIRC2 and DLGAP5. SCF(FBXO33) directs ubiquitination of YBX1. SCF(FBXO1) directs ubiquitination of BCL6 and DTL but does not seem to direct ubiquitination of TP53. SCF(BTRC) mediates the ubiquitination of NFKBIA at 'Lys-21' and 'Lys-22'; the degradation frees the associated NFKB1-RELA dimer to translocate into the nucleus and to activate transcription. SCF(CCNF) directs ubiquitination of CCP110. SCF(FBXL3) and SCF(FBXL21) direct ubiquitination of CRY1 and CRY2. SCF(FBXO9) directs ubiquitination of TTI1 and TELO2. SCF(FBXO10) directs ubiquitination of BCL2.[UniProtKB/Swiss-Prot Function]</p>
Locus ID:	8454
MW:	20.9