

Product datasheet for **SC310119**

Cullin 5 (CUL5) (NM_003478) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cullin 5 (CUL5) (NM_003478) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cullin 5
Synonyms:	CUL-5; VACM-1; VACM1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_003478 edited
 GTGACGTGGCCGCGAACCTGAGCTGCGGGCCTAAGCCGAGCTAAATTCGTTGCAGGTG
 GCCGCGGCGGGTCAACACAAAGGCTAATCCGAAGGAGTCGGGGAGGCTCGTGGAGTCG
 ATGCTTCTCTTCCAAGTCAGGTCGGCTCCCGTTACCTTCTCAGCATTCCGCGTTCGGT
 CTTCTGAGCGCTGCATGAGGCTTTTCGCGTGGGGAAGCTCCGGTGACCATGTAGGGGA
 CAAGAGTGAGGAAGCTCCTGGTCTTGGGACGAGGTCAGCGCTGTGCGCGCTGCTCCA
 GCGCCACACACCCTGGTGCGGCCGACGGGCCCTGGGCCCTGGTGGGAGCTCCGGCCT
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ACAACAGATTTGCTAATTTAAAAAAAAAAAAAAAAAAAAAAAAA
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Restriction Sites:	NotI-NotI
ACCN:	NM_003478
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).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_003478.3</u> , <u>NP_003469.2</u>
RefSeq Size:	6408 bp
RefSeq ORF:	2343 bp
Locus ID:	8065
UniProt ID:	<u>Q93034</u>
Cytogenetics:	11q22.3
Domains:	CULLIN
Protein Families:	Druggable Genome
Protein Pathways:	Ubiquitin mediated proteolysis

Gene Summary:

Core component of multiple SCF-like ECS (Elongin-Cullin 2/5-SOCS-box protein) E3 ubiquitin-protein ligase complexes, which mediate the ubiquitination and subsequent proteasomal degradation of target proteins. As a scaffold protein may contribute to catalysis through positioning of the substrate and the ubiquitin-conjugating enzyme. The functional specificity of the E3 ubiquitin-protein ligase complex depends on the variable substrate recognition component. ECS(SOCS1) seems to direct ubiquitination of JAK2. Seems to be involved in proteasomal degradation of p53/TP53 stimulated by adenovirus E1B-55 kDa protein. May form a cell surface vasopressin receptor.[UniProtKB/Swiss-Prot Function]