

Product datasheet for **SC329474**

Cullin 2 (CUL2) (NM_001198777) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cullin 2 (CUL2) (NM_001198777) Human Untagged Clone
Tag:	Tag Free
Symbol:	CUL2
Vector:	pCMV6-Entry (PS100001)

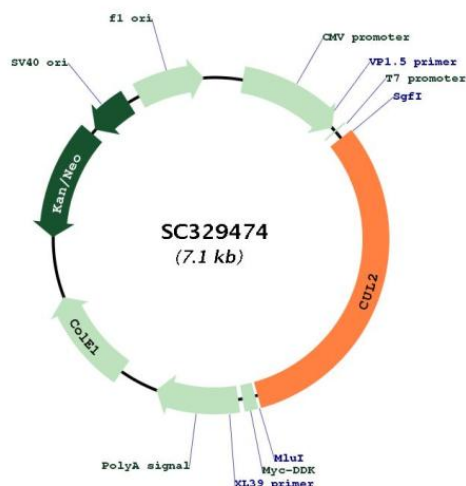


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Fully Sequenced ORF: >SC329474 representing NM_001198777.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGTCTTTGAAACCAAGAGTAGTAGATTTTGTGAAACATGGAACAACTTTTGACGACAATAAAAGCC
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TCGGCAGATGAATACAGCTACGTCGCGTGA
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Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_001198777

Insert Size: 2238 bp

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).

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:

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: [NM_001198777.1](#)

RefSeq Size: 4246 bp

RefSeq ORF: 2238 bp

Locus ID: 8453

UniProt ID: [Q13617](#)

Cytogenetics: 10p11.21

Protein Families: Druggable Genome

Protein Pathways: Pathways in cancer, Renal cell carcinoma, Ubiquitin mediated proteolysis

MW: 87 kDa

Gene Summary: Core component of multiple cullin-RING-based ECS (ElonginB/C-CUL2/5-SOCS-box protein) E3 ubiquitin-protein ligase complexes, which mediate the ubiquitination of target proteins. ECS complexes and ARIH1 collaborate in tandem to mediate ubiquitination of target proteins (PubMed:27565346). May serve as a rigid scaffold in the complex and 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 is inhibited by the association of the deneddylated cullin subunit with TIP120A/CAND1. The functional specificity of the ECS complex depends on the substrate recognition component. ECS(VHL) mediates the ubiquitination of hypoxia-inducible factor (HIF).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (4) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (c) is shorter at the N-terminus compared to isoform a. Variants 3 and 4 both encode the same isoform (c). 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.