

Product datasheet for **SC333268**

ERCC6 (NM_001277058) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ERCC6 (NM_001277058) Human Untagged Clone
Tag:	Tag Free
Symbol:	ERCC6
Synonyms:	ARMD5; CKN2; COFS; COFS1; CSB; CSB-PGBD3; POF11; RAD26; UVSS1
Vector:	pCMV6-Entry (PS100001)



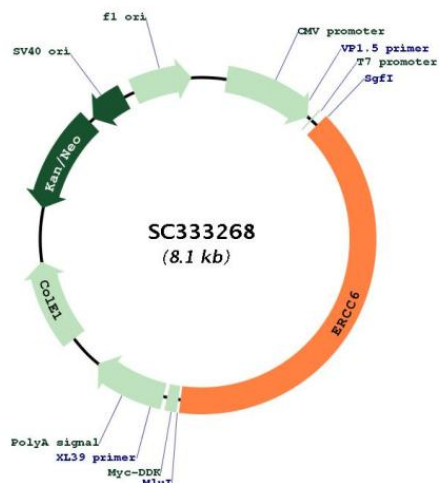
[View online »](#)

Fully Sequenced ORF: >SC333268 representing NM_001277058.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_001277058

Insert Size: 3186 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_001277058.1](#)

RefSeq Size: 3590 bp

RefSeq ORF: 3186 bp

Locus ID: 2074

UniProt ID: [P0DP91](#)

Cytogenetics: 10q11.23

Protein Families: Druggable Genome

Protein Pathways: Nucleotide excision repair

MW: 119.5 kDa

Gene Summary: This gene encodes a DNA-binding protein that is important in transcription-coupled excision repair. The encoded protein has ATP-stimulated ATPase activity, interacts with several transcription and excision repair proteins, and may promote complex formation at DNA repair sites. Mutations in this gene are associated with Cockayne syndrome type B and cerebrooculofacioskeletal syndrome 1. Alternative splicing occurs between a splice site from exon 5 of this gene to the 3' splice site upstream of the open reading frame (ORF) of the adjacent gene, piggyback-derived-3 (GeneID:267004), which activates the alternative polyadenylation site downstream of the piggyback-derived-3 ORF. The resulting transcripts encode a fusion protein that shares sequence with the product of each individual gene. [provided by RefSeq, Mar 2016]

Transcript Variant: This variant (1) contains an alternate 3' terminal exon, compared to variant 3. It is generated as a result of splicing of ERCC6 exon 5 to the 3' splice site upstream of the PGBD3 ORF that activates the alternative polyadenylation site downstream of the PGBD3 ORF. The resulting protein (isoform 1, ERCC6-PGBD3 fusion protein) is shorter and has a distinct C-terminus, compared to isoform 2. **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.