

Product datasheet for **SC309065**

CSB (ERCC6) (NM_000124) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CSB (ERCC6) (NM_000124) Human Untagged Clone
Tag:	Tag Free
Symbol:	ERCC6
Synonyms:	ARMD5; CKN2; COFS; COFS1; CSB; CSB-PGBD3; POF11; RAD26; UVSS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC309065 representing NM_000124. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCCAAATGAGGGAATCCCCACTCAAGTCAAAGTCAAGGAGCAAGACTGTTTACAGAGTCAACCTGTC
AGTAATAATGAAGAAATGGCAATCAAGCAAGAAAGTGGTGGTGTATGGGGAGGTGGAGGAGTACCTCTCC
TTTCGTTCTGTGGGTGACGGGTGTCCACCTCTGCTGTGGGGTGCATCAGCAGCTCCGAGGAGAGGG
CCAGCCCTGCTGCACATCGACCGACATCAGATCCAGGCAGTAGAGCCTAGCGCCAGGCCCTTGAGCTG
CAGGGTTTGGGTGTGGAGTCTATGACCAGGACGTGCTGGAACAGGGAGTCTTCCAGCAGGTGGACAAT
GCCATCCATGAGGCCAGCCGTGCCTCCCAGCTCGTTGACGTGGAGAAGGAGTATCGGTGGTCCCTGGAT
GACCTCACGTATGTACGACATCCCTAAGGCAAATCAATAAAAATTATTGAACAGCTTAGCCCTCAAGCT
GCCACCAGCAGAGACATCAACAGGAAACTAGATTCTGTAACGACAGAGTATAATAAGGAACAACAG
CTAAAAAAGATCACTGCAAAACAAAAGCATCTCCAGGCCATCCTTGGAGGAGCAGAGGTGAAAATTGAA
CTAGATCACGCCAGTCTGGAGGAGGATGACAGAGCCGGGGCCATCCAGTCTTGGCAGCATGCTCATGCCT
GTCCAGGAGACTGCCTGGGAAGAGCTCATCCGACTGGCCAGATGACACCTTTTGGTACCCAGATCCCT
CAGAAACAGGAGAAAAAGCCAGAAAAATCATGCTTAATGAAGCATCAGGCTTCGAAAAGTATTTGGCA
GATCAAGCAAACTGTCTTTTGAAGGAAGAAGCAAGTTGTATAAAAAGAGCAGCTAGAAAAGCTCCA
GCCCCAGTACGCCTCCAGCCCCAGTGCAAAATAAAAACAAAACAAGAAAGCCAGAGTTCTGTCC
AAAAAAGAGGAGCGTTTGAAGGACACATCAAGAACTCCAGAAGAGGGCTTTGCAGTTCAGGGGAAA
GTGGGATTGCCAAGGCAAGGAGACCTTGGGAGTCAAGCATGAGGCCAGAGGCAGAGGGAGACTCTGAG
GGTGAAGAGTCTGAGTATTTCCACAGAGGAGGAGGAAGAGGAGGAAGATGACGAGGTGGAGGGGCA
GAGGCGGACCTGTCTGGAGATGGTACTGACTATGAGCTGAAGCCTCTGCCAAGGGCGGAAACGGCAG
AAGAAAGTGCCAGTGCAGGAGATTGATGATGACTTTTTCCCAAGTTCTGGGAAGAAGCTGAAGCTGCT
TCTGTAGGAGAAGGAGGAGGAGGAGTTCGAAAGTGGGAAGATACCGAGATGATGGAGATGAAGATTAT
TATAAGCAGCGGTTAAGGAGATGGAATAAACTGAGACTGCAGGACAAAGAGAAACGTCTGAAGCTGGAG
GACGATTCTGAGGAAAGTATGCTGAATTTGACGAAGTTTTAAAGTGCCAGTTTTCTGTTCAAAAAG
```



[View online >](#)

CTTTTAAGTACCAGCAGACAGGTGTTAGTGGCTGTGGGAATTGCACTGCCAGCAGGCAGGAGGAATT
 CTGGGAGATGAAATGGGATTGGGCAAGACCATCCAGATAATTGCCTTCTTGGCAGGTCTGAGCTACAGC
 AAGATCAGGACTCGTGGTTCAAATTACAGGTTTGGGGTTGGGTCCAAGTGAATTGTCTGTCCAACA
 ACAGTGATGCATCAGTGGTGAAGGAATTTACACGTGGTGGCCTCCGTTTCCAGAGTGGCAATTTACAT
 GAAACCGTTCTATACCCACAAAAAGGAGAACTAATTCGAGATGTTGCTCATTGTGCATGGAATTTG
 ATCACATCTTACTCTACATTGATTGATGCAGGATGACATTAGCAGGTATGACTGGCACTATGTGATC
 TTGGACGAAGGACACAAAATTCGAAATCCAAATGCTGCTGTACCCTTGTGCAAAACAGTTTCGCACC
 CCTCATCGGATCATTCTGTCTGGCTCACCGATGCAAAATAACCTCCGAGAGCTGTGGTCTTTGAC
 TTCATCTTCCCGGAAAGTTAGGCACGTTGCCTGTGTTTATGGAGCAGTTCTCCGTCCTCCATCACCATG
 GGGGATATTCAAATGCTTCCCGTACAGGTCAAACCTGCTTACAAGTGTGCATGTGTCTTACGAGAT
 ACCATAAATCCATACCTACTGCGGAGAATGAAGTCAGATGTCAAGATGAGCCTTTCTTGGCAGATAAA
 AATGAACAGGTCTTATTTTGGCTTACAGATGAGCAGCATAAAGTCTACCAAATTTCTGTTGATTCC
 AAAGAAGTTTACAGGATCTCAATGGAGAGATGCAGATTTTCTCCGACTTATAGCCCTAAGAAAAATT
 TGCAACCACCCTGATCTTTTTCTGGAGTCCCAAGAATCTCAAAGTCTTCTGATGATGAACTAGAA
 GAAGATCAGTTTGGTACTGAAACGTTCTGGGAAAATGATTGTTGTTGAGTCTTTGTTGAAAATATGG
 CACAAGCAGGGTCAGCGAGTATTGCTGTTTTCTCAGTCAAGGCAGATGCTGGACATACTTGAAGTATTC
 CTTAGAGCCAAAAGTATACCTATCTCAAGATGGATGGTACCCTACAATAGCTTCAAGCAGCCACTG
 ATTACGAGATACAATGAGGACACATCCATATTTGTGTTTCTTCTGACCACGCGGGTGGGCGGCTTAGGT
 GTCAACCTGACGGGGCAACAGAGTTGTATCTATGACCAGACTGGAACCCAAGCAGGCACGACGAG
 GCCCGGAGCGAGCATGGAGAATAGGCCAGAAGAAGCAAGTACTGTGTACAGGCTCCTGACTGCGGGC
 ACCATTGAAGAAAAGATCTACCACCGACAAATCTCAAGCAGTTTTTGCAAAATAGAGTGCTAAAAGAC
 CAAAAACAAAGGCGTTTTTCAAATCCAATGATCTCTATGAGCTATTTACTCTGACTAGCTCTGATGCA
 TCCCAGCAGTGAACAAGTCAATTTTTGCAGGAAGTGGATCAGATGTTGAGACCCAAATGCCAT
 CTAAAAAGAAGGATTCAACCAGCCTTTGGAGCAGACCATGATGTTCCAAAACGCAAGAAGTTCCCTGCT
 TCTAACATATCTGTAATGATGCCACATCATCTGAAGAGAAATCTGAGGCTAAAGGAGCTGAAGTAAAT
 GCAGTAACTTCTAATCGAAGTGATCCTTTGAAAGATGACCCTCACATGAGTAGTAATGTAAGTAACTG
 GATAGGCTTGGAGAAGAGACAAATGCAGTATCTGGACCAGAAGAGTTGTGAGTATTAGTGGAAATGGG
 GAATGTTCAAATCTTACAGAACAGGCAAACTTCTATGCCATCTGGTATGAAAGCATTGATGAAAAG
 TTAGGCTTTTACAAAAGAGAAAGCCAGCCAGGCTCAAACAGAAGCTTTTTGGGAGAATAAACAA
 ATGGAAAATAATTTTTAAGCACAAAGTCAAAAACAAACATCATAGTGTGCAGAGAAGAAGACCCCTG
 GAGAAACATCTGAGACCAAGCAAAAGCCTAAGAACTCTAAGCATTGCAGAGACGCAAGTTTGAAGGA
 ACTCGAATTCACACCTGGTGAAGAAAAGCGTTACCAGAAGCAAGACAGTGAACAAGAGTGAAGGCC
 AAGGAACAGGCAATGACGATTATGTTTTGAAAAGCTTTTTCAAAAAATCAGTTGGCGTGACAGTGTG
 ATGAAGCACGATGCCATCATGGATGGAGCCAGCCAGATTATGACTGGTGGAGGCAGAAGCCAACCGA
 GTGGCCAGGATGCCCTGAAAGCACTGAGGCTCTCTCGTCAGCGGTGTCTGGGAGCAGTGTCTGGTGT
 CCCACCTGGACTGGCCACAGGGGATTTCTGGTGCACCAGCAGGAAAAAAGAGTAGATTTGGTAAGAAA
 AGGAATTTAACTTCTGTGCAGCATCCTTCAACATCTCCAACAGAGAAGTGCAGGATGGCATC
 ATGAAAAGGAGGAAAAGATAATGTCCCTGAGCATTAGTGGAAAGAGCAGAAGATGCAGACTTTCA
 TCCGGCCCTCGCTTCTCCTCACTCTTGGCTAAAATGAGAGCTAGAAACCACCTGATTCTGCCAGAG
 CGTTTAGAAAAGTGAAGCGGGCACCTGCAGGAAGCTTCTGCCCTGCTGCCACCACAGAACACGATGAC
 CTCTGGTGGAGATGAGAACTTTCATCGTTTTCCAGGCCACACTGATGGCCAGGCCAGCACCAGGGAG
 ATACTGCAGGAGTTGAATCCAAGTTATCTGCATCACAGTCTTGTGTCTCCGAGAACTATTGAGAAAT
 CTGTGCACTTTCCATAGAACTTCTGGTGGTGAAGGAATTTGGAACTCAAGCCAGAATACTGCTAA
 ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: Sgfl-Mlul
Plasmid Map:
ACCN: NM_000124
Insert Size: 4482 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).
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:	NM_000124.3
RefSeq Size:	8993 bp
RefSeq ORF:	4482 bp
Locus ID:	2074
UniProt ID:	Q03468
Cytogenetics:	10q11.23
Domains:	SNF2_N, DEAD, helicase_C
Protein Families:	Druggable Genome
Protein Pathways:	Nucleotide excision repair
MW:	168.4 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 (3) represents the longest transcript and encodes the longer protein (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.