

## Product datasheet for **SC304504**

### ERCC6L (NM\_017669) Human Untagged Clone

#### Product data:

|                           |                                                                                         |
|---------------------------|-----------------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                                     |
| Product Name:             | ERCC6L (NM_017669) Human Untagged Clone                                                 |
| Tag:                      | Tag Free                                                                                |
| Symbol:                   | ERCC6L                                                                                  |
| Synonyms:                 | PICH; RAD26L                                                                            |
| Mammalian Cell Selection: | Neomycin                                                                                |
| Vector:                   | pCMV6-Entry (PS100001)                                                                  |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                                                    |
| Fully Sequenced ORF:      | >SC304504 representing NM_017669.<br>Blue=Insert sequence Red=Cloning site Green=Tag(s) |

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG  
GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**  
ATGGAGGCATCCGAAGGTTTCCGAAGCCGAGGCCTTGAGCCCAGAGCAGGCTGCTCATTACCTAAGA  
TATGTGAAAGAGGCCAAAGAAGCAACTAAGAATGGAGACCTGGAAGAAGCATTTAACTTTTCAATTTG  
GCAAAGGACATTTTCCAATGAAAAAGTGCTGAGCAGAATCAAAAAATACAGGAAGCCTTGGAGGAG  
TTGGCAGAACAGGGAGATGATGAATTTACAGATGTGTGCAACTCTGGCTTGCTACTTTATCGAGAAGT  
CACAACCAACTCTTTGAGCACCAGAAGGAAGGCATAGCTTTCCTCTATAGCCTGTATAGGGATGGAAGA  
AAAGGTGGTATATTGGCTGATGATATGGGATTAGGAAGACTGTTCAAATCATTGCTTTCCTTTCCGGT  
ATGTTTGATGCATCACTTGTGAATCATGTGCTGCTGATCATGCCAACCAATCTTATTAACACATGGGTA  
AAAGAATTCATCAAGTGGACTCCAGGAATGAGAGTCAAAACCTTTTCATGGTCTAGCAAGGATGAACGG  
ACCAGAAACCTCAATCGGATTACAGCAAGGAATGGTGTTATTATCACTACATACCAAAATGTTAATCAAT  
AACTGGCAGCAACTTTCAAGCTTTAGGGGCCAAGAGTTTGTGTGGGACTATGTCATCCTCGATGAAGCA  
CATAAAATAAAACCTCATCTACTAAGTCAGCAATATGTGCTCGTGCTATTCTCGCAAGTAATCGCCTC  
CTCCTCACAGGAACCCCAATCCAGAATAATTTACAAGAACTATGGTCCCTATTTGATTTTGCTTGTCAG  
GGGTCCCTGCTGGGAACATTAATACTTTAAGATGGAGTATGAAATCCTATTACTAGAGCAAGAGAG  
AAGGATGCTACCCAGGAGAAAAAGCCTTGGGATTTAAATATCTGAAACTTAATGGCAATCATAAAA  
CCCTATTTTCTCAGGAGGACTAAAGAAGACGTACAGAAGAAAAAGTCAAGCAACCCAGAGGCCAGACTT  
AATGAAAAGAATCCAGATGTTGATGCCATTTGTGAAATGCCTTCCCTTTCCAGGAAAAATGATTTAATT  
ATTTGGATACGACTTGTGCCTTTACAAGAAGAAATATACAGGAAATTTGTGCTTTAGATCATATCAAG  
GAGTTGCTAATGGAGACGCGCTCACCTTTGGCTGAGCTAGGTGTCTTAAGAAGCTGTGTGATCATCCT  
AGGCTGCTGTCTGCACGGGCTTGTGTTTGCTAAATCTTGGGACATTCTGCTCAAGATGGAAATGAG  
GGGGAAGATTCACAGATGTGGACCATATTGATCAAGTAAGTATGACACATTGATGGAAGAATCTGGA  
AAAATGATATTCTAATGGACCTACTTAAGAGGCTGCGAGATGAGGGACATCAAACCTCTGGTGTTTTCT  
CAATCGAGGCAAATCTAACATCATTGAACGCCTCTTAAGAATAGGCACCTTAAGACATTGCGAATC



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GATGGGACAGTTACTCATCTTTTGAACGAGAAAAAGAATTAACCTATTCCAGCAAAATAAGATTAC  
TCTGTTTTCTGCTTACCACTCAAGTAGGTGGTGTGCGTTTAACTTAAGTGCAGCACTAGAGTGGTC  
ATTTTTGACCCTAGCTGGAATCCTGCACTGATGCTCAAGCTGTGGATAGAGTTTACCGAATTGGACAA  
AAAGAGAATGTTGTGGTTTATAGGCTAATCACTTGTGGGACTGTAGAGGAAAAATATACAGAAGACAG  
GTTTTCAAGGACTCATTAATAAGACAACTACTGGTAAAAAAGAACCCTTTCCGATATTTAGTAAA  
CAAGAATTAAGAGAGCTCTTACAATCGAGGATCTTCAGAACTCTGTAAACCCAGCTGCAGCTTCAGTCT  
TTGCATGCTGCTCAGAGGAAATCTGATATAAACTAGATGAACATATTGCCTACCTGCAGCTTTGGGG  
ATAGCTGGAATCTCAGACCATGATTTGATGTACACATGTGATCTGTCTGTTAAAGAAGAGCTTGATGTG  
GTAGAAGATCTCACTATATTCAACAAAGGTTTCAAGAACTCAATTCCTCGTTGAATTCGAGTCTCAA  
AATAAAGAGTTTCTGATGGAACAACAAAGAACTAGAAATGAGGGGCTGGCTAAGAGAAGCTGTATTT  
CCTTCTTCAACAAAGAAGAAATGCCCTAAATTGAATAAACACAGCCTCAGCCTTCACCTCTTAAAGT  
ACTCATCACTCAGGAAGAAGATATCAGTTCCAAATGGCAAGTGTAGTCATTGATGATCTGCCAAA  
GAGGGTGAGAAACAAGATCTCTCCAGTATAAGGTGAATGTTACCACCTTGAAGATGGTAAAGGTACA  
GGTAGTGTGACTCTATAGCTACTTTACCAAAGGGGTTTGAAGTGTAGAAGAACTTTGTAAGTCT  
TCATTGGGAATGAAAAAAGCTTTGCACTAAAAATGAAGCTGTACAAAAGAGACATTACAAGAGGGG  
CCTAAGCAAGAGGCACTGCAAGAGGATCCTCTGGAAGTTTAAATTATGTAAGTCTAGCAAAATCAACAAA  
GCTGATATTGGGCCAAATTTAGATCAACTAAAGGATGATGAGATTTACGTCATTGCAATCCTTGGCCC  
ATTATTTCCATAACAATGAAAGTCAAAATGCAGAAATCAATGTATCCATTATTGAAATAGCTGATGAC  
CTTTCAGCATCCCATAGTGCAGTGCAGGATGCTCAAGCAAGTGAAGGCAAGTTGGAAGAGGAACCTTCA  
GCATCTTCAACACAGTATGCATGTGATTCAATCTTTCTTGAAGACTCAGCAGACAACAGACAAAAT  
TTTTCCAGTCAGTCTTTAGAGCATGTTGAGAAAGAAAATAGCTTGTGTGGCTCTGCACCTAATCCAGA  
GCAGGGTTTGTGCATAGCAAAACATGTCTCAGTTGGGAGTTTCTGAGAAAGACGATGAACAGAAGAA  
GTAGTAGTTAAAGCAAAAATCAGAAGTAAAGCTAGAAGGATTGTTTCAGATGGCGAAGATGAAGATGAT  
TCTTTTAAAGATACCTCAAGCATAAATCCATTCAACACATCTCTTTCAATTCTCATCTGTGAAACAA  
TTTGATGCTTCAACTCCCAAAAATGACATCAGTCCACCAGGAAGTTCTTTTCATCTCAAATACCCAGT  
AGTGTAATAAGTCTATGAACTCTAGAAGATCTCTGGCTTCTAGGAGGTCTCTTATTAATATGGTTTTA  
GACCACGTGGAGGACATGGAGGAAAGACTTGACGACAGCAGTGAAGCAAAGGGTCTGAAGATTATCCA  
GAAGAAGGGTGGAGGAAAGCAGTGGCGAAGCCTCCAAGTATACAGAAGAGGATCCTTCCGAGAAAACA  
CTGTCTTCAGAAAACAAGTCCAGCTGGTTAATGACGTCTAAGCCTAGTGTCTAGCTCAAGAGACCTCT  
CTTGGTGCCCTGAGCCTTTGTCTGGTGAACAGTTGGTTGGTTCTCCCCAGGATAAGGCGGCAGAGGCT  
ACAAATGACTATGAGACTCTTGTAAAGCGTGGAAAAGAACTAAAAGAGTGTGAAAAATCCAGGAGGCC  
CTAAACTGCTTAGTTAAAGCGCTTGACATAAAAAGTGCAGATCCTGAAGTTATGCTCTTGACTTTAAGT  
TTGTATAAGCAACTTAATAACAATTGA  
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT  
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_017669

**Insert Size:** 3753 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:**

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\\_017669.2](#)

**RefSeq Size:** 4224 bp

**RefSeq ORF:** 3753 bp

**Locus ID:** 54821

**UniProt ID:** [Q2NWX8](#)

**Cytogenetics:** Xq13.1

**MW:** 141.1 kDa

**Gene Summary:** This gene encodes a member of the SWItch/Sucrose Non-Fermentable (SWI/SNF2) family of proteins, and contains a SNF2-like ATPase domain and a PICH family domain. One distinguishing feature of this SWI/SNF protein family member is that during interphase, the protein is excluded from the nucleus, and only associates with chromatin after the nuclear envelope has broken down. This protein is a DNA translocase that is thought to bind double-stranded DNA that is exposed to stretching forces, such as those exerted by the mitotic spindle. This protein associates with ribosomal DNA and ultra-fine DNA bridges (UFBs), fine structures that connect sister chromatids during anaphase at some sites such as fragile sites, telomeres and centromeres. This gene is required for the faithful segregation of sister chromatids during mitosis, and the ATPase activity of this protein required for the resolution of UFBs before cytokinesis. [provided by RefSeq, May 2017]

Transcript Variant: This variant (1) encodes the longer isoform (a).