

Product datasheet for **SC113779**

ECT2 (NM_018098) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ECT2 (NM_018098) Human Untagged Clone
Tag:	Tag Free
Symbol:	ECT2
Synonyms:	ARHGEF31
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_018098 edited
 GAATCGGCACGAGGGCCTAGAGATAGCAAGAAAACGGCACAAGGTTATTGGCACTTTTAG
 GAGTCCTCATGGCCAAACCCGACCCCGAGCTTCTCTTAAGCATATTCACCTAATGCCTCT
 TTCTCAGATTAAGAAGGTATTGGACATAAGAGAGACAGAAGATTGCCATAATGCTTTTGC
 CTTGCTTGTGAGGCCACCAACAGAGCAGGCAAAATGTGCTACTCAGTTTCCAGATGACATC
 AGATGAACTTCCAAAAGAAAACCTGGCTAAAGATGCTGTGTCGACATGTAGCTAACACCT
 TTGTAAGCAGATGCTGAGAATCTTATTTATACTGCTGATCCAGAATCCTTTGAAGTAAA
 TACAAAAGATATGGACAGTACATTGAGTAGAGCATCAAGAGCAATAAAAAAGACTTCAAA
 AAAGGTTACAAGAGCATTCTCTTCTCCAAAACCTCCAAAAGAGCTCTTGAAGGGCTCT
 TATGACATCCCACGGCTCAGTGGAGGGAAGAAGTCCTTCCAGCAATGATAAGCATGTAAT
 GAGTCGCTTTCTAGCACATCATCATTAGCAGGTATCCCTTCTCCCTCCCTTGTGAGCCT
 TCCTTCTTCTTTGAAAGGAGAAGTCATACGTTAAGTAGATCTACAACCTATTTGATATG
 AAGCGTTACCAAATCTTAAATTATAGAAATGTATAGACACCTCATACTCAAATAAGAAA
 CTGACTTAAATGGTACTTGTAAATTAGCACTTGGTAAAAGCTGGAAGGAAGATAAAATAACA
 CTAACCTATGCTATTTGATTTTTCTTCTTGAAGAGTAAGGTTTACCTGTTACATTTTCA
 AGTTAATTCATGTAAAAATGATAGTGATTTTGTAGTAATTTATCTTGTTTGAATCTG
 TCATTCAAAGGCCAATAATTTAAGTTGCTATCAGCTGATATTAGTAGCTTTGCAACCCCTG
 ATAGAGTAAATAAATTTTATGGGCGGGTGCAAAATACTGCTGTGAATCTATTTGTATAGT
 ATCCATGAATGAATTTATGGAAATAGATATTTGTGCGAGCTCAATTTATGCAGAGATTA
 TGACATCATAATACTGGATGAAAACCTGGCATAGAATTCTGATTAATAGTGGGCTGTGTT
 CACATGTGCGAGTTGAAGTATTTAAATAACCACTCCTTTCACAGTTTATTTTCTTCTCAA
 GCGTTTTCAAGATCTAGCATGTGGATTTTAAAAGATTTGCCCTCATTAAACAAGAATAACA
 TTTAAAGGAGATTGTTTTCAAAATTTTTTGCAAAATTGAGATAAGGACAGAAAGATTGAGA
 AACATTGTATATTTTGCAAAACAAGATGTTTGTAGCTGTTTCAGAGAGAGTACGGTATA
 TTTATGGTAATTTTATCCACTAGCAAATCTTGATTTAGTTTGTAGTGTGGAATTTTA
 TTTTGAAGGATAAGACCATGGGAAAATTGTGGTAAAGACTGTTTGTACCTTCATGAAAT
 AATTCTGAAGTTGCCATCAGTTTTACTAATCTTCTGTGAAATGCATAGATATGCGCATGT
 TCAACTTTTTATTGTGGTCTTATAATTAATGTAATTTGAAAATTCATTTGCTGTTTCA
 AAGTGTGATATCTTTCACAATAGCCTTTTTATAGTCAGTAATTCAGAATAATCAAGTTCA
 TATGGATAAATGCATTTTTATTTCTATTTCTTTAGGGAGTGCTACAAATGTTTGTCACT
 TAAATTTCAAGTTTCTGTTTTAATAGTTAACTGACTATAGATTGTTTTCTATGCCATGTA
 GTGCCACTTCTGAGAGTAGTAAATGACTCTTGTACATTTTAAAAGCAATTGTATTAG
 TAAGAACTTTGTAATAAATACCTAAAACCCAAGTGTAATAAAAAAAAAAAAAAAAAACTCGA
 C

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018098 unedited
 GTATTTGTATACGACTCACTATGGGCGGCCGGAATCGGCACGAGGGCCTAGAGATATCA
 AGAAAACGGCACAAGGTTATTGGCACTTTTAGGAGTCCTCATGGCCAAACCCGACCCCA
 GCTTCTCTTAAGCATATTCACCTAATGCCTCTTCTCAGATTAAGAAGGTATTGGACATA
 AGAGAGACAGAAGATTGCCATAATGCTTTTGCCTTGCTTGTGAGGCCACCAACAGAGCAG
 GCAAATGTGCTACTCAGTTTCCAGATGACATCAGATGAACTTCCAAAAGAAAACCTGGCTA
 AAGATGCTGTGTCGACATGTAGCTAACACCATTGTAAAGCAGATGCTGAGAATCTTATT
 TATACTGCTGATCCAGAATCCTTTGAAGTAAATACAAAAGATATGGACAGTACATTGAGT
 AGAGCATCAAGAGCAATAAAAAAGACTTCAAAAAAGGTTACAAGAGCATTCTCTTCTCC
 AAAACTCCAAAAGAGCTCTTGAAGGGCTCTTATGACATCCCACGGCTCAGTGGAGGGA
 AGAAGTCTTCCAGCAATGATAAGCATGTAATGAGTCGCTTTCTAGCACATCATATTA
 GCAGGTATCCCTTCTCCCTCCCTTGTGAGCCTTCTTCTCTTTGAAAGGAGAAGTCAT
 ACGTTAAGTAGATCTACAACCTATTTGATATGAAGCGTTACCAAATCTTAAATTATAGN
 AAATGTATAGACACCTCATACTCAAATAAGAAAACCTGACTTACATGGTACTTGGTATTAAC
 ACTTGGTGAAGCTGGAAGGAAGAAAATAACACTAAACTATGCTATNTGATTTTTTCTTCC
 TGAAGGAGGAAGCTCACC

3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_018098 unedited CGGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTACACTTGGGTTTTAGGTATT TATTTACAAAGTTCTTACTAATACAATTGCTTTTAAAATGTAGCAAAGAGTCATTTACTA CTCTCAGAAGTGGCACATACATGGCATAGAAAACAATCTATAGTCAGTTAACTATTA CAGAAACTTGAATTTAAGTGACAAACATTTGTAGCACTCCCTAAAGAAATAGGAAATAA AAATGCATTTATCCATATGAACTTGATTATTCTGAATTACTGACTATAAAAAGGCTATTG TGAAGATATCACACTTTGAAACAGCAAATGAATTTTCAATTTTACATTTAATTATAAGA CCACAATAAAAAGTTGAACATGCGCATATCTATGCATTTTACAGAAAGATTAGTAAACTG ATGGCACTTCAGAATTATTTTCAAGGGTACAAACAGTCTTTACCACAATTTTCCCAT GGTCTTATCCTTCAAATAAAATTCCACACACTATCAAATAAATCAAGATTTGCTAGTG GATAAAATTACCATAAATATACCGTACTCTCTCTGAAACAGCTACAAACATCTTGTTTT GCAAAATATACAATGTTTCTCAATCTTTCTGCTTATCTCAATTTGCAAAAAATATTTT GAAACAATCTCCTTTAAATGCTATTCTTGTAAATGAGGGCAAATCTTTAAAATCCACA TGCTAGATCTTGAACGCTTGAGAAGACATAAACTGTGAAAGGAGTGGTATTTAAATA CTTCAAATGACATGTTGAACAGACCCACTATTTATCAAATCTATGCCAGTTTCATCC AGNATTATGAGTCATTTATCTCTGATAAATGAGCTGCCAATATCTATTCCATAAATCTTC TGAACCTTACAATAGATTACAGCGGTTTGCCACCGCCCTAAATTATTACTT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_018098
Insert Size:	1920 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
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_018098.2 , NP_060568.1
RefSeq Size:	2309 bp

RefSeq ORF: 549 bp

Locus ID: 1894

UniProt ID: [Q9H8V3](#)

Cytogenetics: 3q26.31

Domains: RhoGEF, BRCT

Protein Families: Druggable Genome

Gene Summary: The protein encoded by this gene is a guanine nucleotide exchange factor and transforming protein that is related to Rho-specific exchange factors and yeast cell cycle regulators. The expression of this gene is elevated with the onset of DNA synthesis and remains elevated during G2 and M phases. In situ hybridization analysis showed that expression is at a high level in cells undergoing mitosis in regenerating liver. Thus, this protein is expressed in a cell cycle-dependent manner during liver regeneration, and is thought to have an important role in the regulation of cytokinesis. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2017]
Transcript Variant: This variant (3), as well as variant 2, encodes isoform b.