

Product datasheet for **SC318356**

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:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_018098, the custom clone sequence may differ by one or more nucleotides

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ATGGCTGAAAATAGTGTATTAACATCCACTACTGGGAGGACTAGCTTGGCAGACTCTTCCATTTTTGATT
CTAAAGTTACTGAGATTTCCAAGGAAAACCTACTTATTGGATCTACTTCATATGTAGAAGAAGATGCC
TCAGATTGAAACAAGAGTGATATTGGTTCAAGAAGCTGGAAAACAAGAAGAACTTATAAAAGCCTTAAAG
GACATTAAGTGGGCTTTGTAAAGATGGAGTCAGTGGAAGAATTTGAAGGTTTGGATTCTCCGGAATTTG
AAAATGATTTGTAGTCACGGACTTTCAGGATTCTGTCTTAAATGACCTCTACAAGGCTGATTGTAGAGT
TATTGGACCACCAGTTGTATTAATTGTTCAAAAAAGGAGAGCCTTTGCCATTTTCATGTCGCCCGTTG
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TGGTGACATTGGTCCATCACATGGGTGGAGTATTGCGAAAAGACTTTAATCAAAAGTTACACATTTGGT
GGCAAATGTACACAAGGAGAAAAATTCAGGGTGTCTGTGAGTCTAGTACTCCAATTATGAAGCCAGAA
TGGATTTATAAAGCTTGGGAAAGCGGAATGAACAGGATTTCTATGCAGCAGTTGATGACTTTAGAAATG
AATTTAAAGTTCTCCATTTCAAGATTGATTTTAAAGTTTCTGGGATTTTCAGATGAAGAGAAAACCAA
TATGGAAGAAATGACTGAAATGCAAGGAGTAAATATTTACCGCTTGGAGATGAAAGATGCACTCACCTT
GTAGTTGAAGAGAATATAGTAAAAGATCTTCCCTTTGAACCTTCAAGAACTTTATGTTGTCAAGCAAG
AGTGGTTCTGGGAAGCATTCAAATGGATGCCCGAGCTGGAGAACTATGATTTTATGAAAAGGCAAA
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CGTTTAAAGAAACACTTGCTCAGCTTTCAAGAGAGACAGACGTGCACCATTTCCACCCCGTAAGCGCC
CATCAGCTGAGCATTCCCTTTCCATAGGGTCACCTAGATATCTCCAACACACCAGAGTCTAGCATTAA
CTATGGAGACACCCCAAAGTCTTGACTAAGTCTTCTAAAAGTCCACTCCAGTTCTTTGCAACAGTCA
GCAAGTTGGCAAGTTGCAAAAAGAGCTTTATCAAAGTAAAGTAAATGTTAATATATTGGCAACAATTA
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CTTATAGTTAATTGGGATGAGAGCAAAAGCATTGGTGACATTTTTCTGAAATATTCAAAAGATTTGGTAA
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ACCAAGATTTTATGCTTTTCTCAAGATAAACCAAGCAAAACCAGAATGTGGACGGCAGAGCCTTGTGAA
CTTCTTATCCGACCAGTACAGAGGTTACCCAGTGTGCATTACTTTTAAATGATCTTAAGAAGCATAACAG
CTGATGAAAATCCAGACAAAAGCACTTTAGAAAAAGCTATTGGATCACTGAAGGAAGTAAAGACGCATAT
TAATGAGGATAAGAGAAAAACAGAAGCTCAAAAGCAAATTTTTGATGTTGTTTATGAAGTAGATGGATGC
CCAGCTAATCTTTTATCTTCTCACCGAAGCTTAGTACAGCGGGTTGAAACAATTTCTCTAGGTGAGCACC
CCTGTGACAGAGGAGAACAAGTAACTCTTCTTCTTCAATGATTGCCTAGAGATAGCAAGAAAACGGCA
CAAGGTTATTGGCACTTTTAGGAGTCTCATGGCCAAACCCGACCCCAAGCTTCTTAAAGCATATTTAC
CTAATGCCTCTTTCTCAGATTAAGAAGGTTATTGGACATAAGAGAGACAGAAGATTGCCAATATGCTTTT
CCTTGCTTGTGAGGCCACCAACAGAGCAGGCAATGTGCTACTCAGTTTCCAGATGACATCAGATGAACT
TCCAAAAGAAAAGTGGCTAAAGATGCTGTGTCGACATGTAGCTAACACCATTTGTAAGCAGATGCTGAG
AATCTTATTTTACTGCTGATCCAGAATCTTTGAAGTAAATACAAAAGATATGGACAGTACATTGAGTA
GAGCATCAAGAGCAATAAAAAAGACTTCAAAAAGGTTACAAGAGCATTCTTTTCTCCAAAAGTCCAAA
AAGAGCTCTTCAAGGGCTCTTATGACATCCCACGGCTCAGTGGAGGGAAGAAGTCTTCCAGCAATGAT
AAGCATGTAATGAGTCGCTTTTCTAGCAGTATCATTAGCAGGTATCCCTTCTCCCTCCCTTGTGACGC
TTCCTTCTTCTTTGAAAGGAGAAGTCATACGTTAAGTAGATCTACAACCTATTTGATATGA
    
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Restriction Sites: Please inquire

ACCN: NM_018098

OTI Disclaimer: 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.

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](#)

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_018098.4](#), [NP_060568.3](#)

RefSeq Size: 3916 bp

RefSeq ORF: 2652 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.