

Product datasheet for **RC234992**

ECT2 (NM_001258316) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ECT2 (NM_001258316) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ECT2
Synonyms:	ARHGEF31
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC234992 representing NM_001258316
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTGAAAATAGTGTATTAACATCCACTACTGGGAGGACTAGCTTGGCAGACTCTTCCATTTTTGATT
 CTAAGTTACTGAGATTTCCAAGGAAAACCTACTTATTGGATCTACTTCATATGTAGAAGAAGAGATGCC
 TCAGATTGAAACAAGAGTGATATTGGTTCAAGAAGCTGGAAAACAAGAAGAACTTATAAAAAGCCTTAAAG
 GACATTAAGTGGGCTTTGTAAGATGGAGTCAGTGGAAGAATTTGAAGTTTGGATTCTCCGGAATTTG
 AAAATGTATTTGTAGTCACGGACTTTCAGGATTCTGTCTTAAATGACCTCTACAAGGCTGATTGTAGAGT
 TATTGGACCACCAGTTGTATTAATTTGTCACAAAAGGAGAGCCTTTGCCATTTTCATGTCGCCCGTTG
 TATTGTACAAGTATGATGAATCTAGTACTATGCTTTACTGGATTTAGGAAAAAGAAGAACTAGTCAGGT
 TGGTGACATTGGTCCATCACATGGGTGGAGTTATTCGAAAAGACTTTAATTCAAAAGTTACACATTTGGT
 GGCAAATTTGACACAAGGAGAAAAATTCAGGGTGTCTGTGAGTCTAGGTACTCCAATTATGAAGCCAGAA
 TGGATTTATAAAGCTTGGGAAAGCGGAATGAACAGGATTTCTATGCAGCAGTTGATGACTTTAGAATG
 AATTTAAAGTTCCTCCATTTCAAGATTGTATTTAAAGTTTCTGGGATTTTCAGATGAAGAGAAAACCAA
 TATGGAAGAAATGACTGAAATGCAAGGAGGTAATATTTACCGCTTGGAGATGAAAGATGCACTCACCTT
 GTAGTTGAAGAGAATATAGTAAAAGATCTTCCCTTTGAACCTTCAAAGAACTTTATGTTGTCAAGCAAG
 AGTGGTTCTGGGAAGCATTCAAATGGATGCCCGAGCTGGAGAACTATGTATTTATATGAAAAGGCAAA
 TACTCTGAGCTCAAGAAATCAGTGTCAATGCTTCTCTAAATACCCCTAACAGCAATCGCAAACGACGT
 CGTTTAAAAGAAACACTTGCTCAGCTTTCAGAGAGACAGACGTGTCAACATTTCCACCCCGTAAGCGCC
 CATCAGCTGAGCATTCCCTTTCCATAGGTCACCTCTAGATATCTCCAACACACCAGACTAGCATTAA
 CTATGGAGACACCCCAAAGTCTTGTACTAAGTCTTCTAAAAGCTCCACTCCAGTTCTTCAAAGCAGTCA
 GCAAGGTGGCAAGTTGCAAAAAGAGCTTTATCAAACGAAAAGTAATTATGTTAATATATTGGCAACAATTA
 TTCAGTTATTTCAAGTACCATTGGAAGAGGAAGGACAACGTGGTGGACCTATCCTTGACACAGAGGAGAT
 TAAGACTATTTTTGGTAGCATCCAGATATCTTTGATGTACACACTAAGATAAAGGATGATCTTGAAGAC
 CTTATAGTTAATTGGGATGAGAGCAAAGCATTGGTGACATTTTTCTGAAATATTCAAAAGATTTGGTAA
 AAACCTACCTCCCTTTGTAACCTCTTTGAAATGAGCAAGGAAACAATTATTAATGTAAAAACAGAA
 ACCAAGATTTTCATGCTTTTCTCAAGATAAACCAAGCAAAACCAGAATGTGGACGGCAGAGCCTTGTGAA
 CTTCTTATCCGACCAGTACAGAGGTTACCCAGTGTGCATTACTTTTAAATGATCTTAAGAAGCATACAG
 CTGATGAAAATCCAGACAAAAGCACTTTAGAAAAGCTATTGGATCACTGAAGGAAGTAATGACGCATAT
 TAATGAGGATAAGAGAAAAACAGAAAGCTCAAAGCAAATTTTTGATGTTGTTTATGAAGTAGATGGATGC
 CCAGCTAATCTTTTATCTTCTCACCGAAGCTTAGTACAGCGGGTTGAAACAATTTCTCTAGGTGAGCACC
 CCTGTGACAGAGGAGAACAAGTAACTCTCTTCTTCAATGATTGCCTAGAGATAGCAAGAAAACGGCA
 CAAGGTTATTGGCACTTTTAGGAGTCTCATGGCCAAACCCGACCCCACTTCTCTTAAGCATATTCAC
 CTAATGCCTCTTCTCAGATTAAGAAGTATTGGACATAAGAGAGACAGAAGATTGCCATAATGCTTTTG
 CCTTGCTTGTGAGGCCACCAACAGAGCAGGCAAATGTGCTACTCAGTTCCAGATGACATCAGATGAAT
 TCCAAAAGAAAAGTGGCTAAAGATGCTGTGTGACATGTAGCTAACACCAATTTGTAAGCAGATGCTGAG
 AATCTTATTTATACTGCTGATCCAGAATCTTTGAAGTAAATACAAAAGATATGGACAGTACATTGAGTA
 GAGCATCAAGAGCAATAAAAAAGACTTCAAAAAGGTTACAAGAGCATTCTTTCTCAAAAAGTCCAAA
 AAGAGCTCTTCAAGGGCTCTTATGACATCCCACGGCTCAGTGGAGGGAAGAAGTCTTCCAGCAATGAT
 AAGCATGTAATGAGTCGTCTTTCTAGCACATCATCATTAGCAGGTATCCCTTCTCCCTCCCTTGTGACGC
 TTCCTTCTTCTTTGAAAGGAGAAGTCATACGTTAAGTAGATCTACAACCTATTTGATA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC234992 representing NM_001258316
 Red=Cloning site Green=Tags(s)

MAENSVLTSTTGRTSLADSSIFDSKVTEISKENLLIGSTSYVEEEMPQIETRVILVQEAGKQEELIKALK
 DIKVGFKMESVEEFGLDSPFENFVVTDFQDSVFNLYKADCRVIGPPVVLNCSQKGEPLPFSCRPL
 YCTSMNLLVLCFTGFRKKEELVRLVTLVHHMGGVIRKDFNSKVTHLVANCTQGEKFRVAVSLGTPIMKPE
 WIYKAWERRNEQDFYAAVDDFRNEFKVPPFQDCILSFLGFSDDEEKTNMEEMTEMQGGKYLPLGDERCTHL
 VVEENIVKDLPFEPSSKLYVVKQEFWGSIQMDARAGETMYLYEKANTPELKKSVSMLSLNTPNSNRKRR
 RLKETLAQLSRETDVSPFPKRKPSAEHLSIGSLLDISNTPESSINYGDTPKSCTKSSKSTPVPSKQS
 ARWQVAKELYQTESNYVNILATIIQLFQVPLEEEGQGGPILAPEEIKTIFGSIPIFDVHTKIKDDLED
 LIVNWDESKSIGDIFLKYSKDLVKTYPFVNFEMSKETIIKCEKQKPRFHAFKINQAKPECGRQSLVE
 LLIRPVQRLPSVALLLNDLKKHTADENPKSTLEKAIGSLKEVMTHINEDKRKTEAQKQIFDVVVEVDGC
 PANLLSSHRSLVQRVETISLGEHPCDRGEQVTLFLFNDCLEIARKRHKVIIGTFRSPHGQTRPPASLKHIIH
 LMPLSQIKKVLDIRATEDCHNAFALLVRPTEQANVLLSFQMTSDELKPNWLMKMLCRHVANTICKADAE
 NLIYTADPESFEVNTKMDSTLSRASRAIKKTSKKVTRAFSFSKTPKRALRRALMTSHGSVEGRSPSSND
 KHMSRLSSTSSLAGIPSPSLVSLPSFFERRSHTLSRSTTHLI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6692_g03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

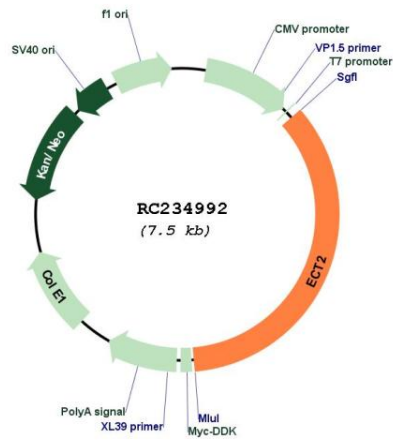
Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:	NM_001258316
ORF Size:	2649 bp
OTI Disclaimer:	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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_001258316.1 , NP_001245245.1
RefSeq Size:	4422 bp
RefSeq ORF:	2652 bp
Locus ID:	1894
UniProt ID:	Q9H8V3
Cytogenetics:	3q26.31
Protein Families:	Druggable Genome
MW:	100.1 kDa
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]

Product images:



Circular map for RC234992