

## Product datasheet for RC220010

### ERBIN (NM\_018695) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ERBIN (NM_018695) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ERBIN
Synonyms:	ERBB2IP; HEL-S-78; LAP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC220010 representing NM_018695 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACTACAAAACGAAGTTTGTGGTGGTACCATGTCGCTGTCTACGAGGGGAAGAGGAGACTG  
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CTTAAGAATATGGTCAAAACTGTTCAAACCATTGTACATAGATTAAGATGAAGAGACCAATGAAGACT  
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ACAAGGATGACGACGAT AAGGTTTAA

**Protein Sequence:** >RC220010 representing NM\_018695  
 Red=Cloning site Green=Tags(s)

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 NNKKDDTKETDLSDEVTHNSNQNSNCS SPSRMSDSVSLNTDSSQDTS LCSPVKQTHIDINSKIRQEDE  
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 ITNDTFQPEIMERSKTQDIVLGTSLINSKEETEHLNGKYPNLESVNKVNGHSEETSQSPNRTEPHD  
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 ARHGEMWAI SPNDRLIPAVTRSTIQRQSSVSTASVNLGDPGSTRRAQIPEGDYLSYREFHSAGRTPPMM  
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 PPYTQPHCSPRQGH ELAKQEIRVRVEKDP ELGFSISGGVGGGRGNPFRPDDDGIFVTRVQPEGPASKLLQP  
 GDKIIQANGYSFINIEHGQAVSLLKTFQNTVELIIVREVSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



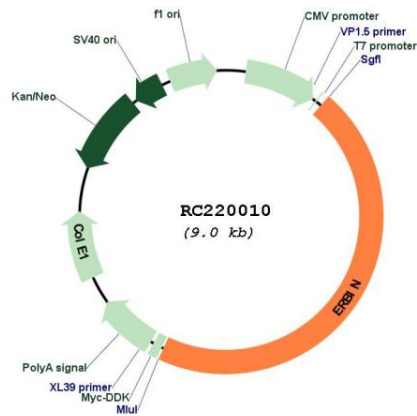
**ACCN:** NM\_018695

**ORF Size:** 4113 bp

<b>OTI Disclaimer:</b>	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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_018695.2</a> , <a href="#">NP_061165.1</a>
<b>RefSeq Size:</b>	6916 bp
<b>RefSeq ORF:</b>	4116 bp
<b>Locus ID:</b>	55914
<b>UniProt ID:</b>	<a href="#">Q96RT1</a>
<b>Cytogenetics:</b>	5q12.3
<b>Domains:</b>	PDZ, LRR, LRR_TYP, LRR_BAC, LRR_PS
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	NOD-like receptor signaling pathway
<b>MW:</b>	153.7 kDa

**Gene Summary:**

This gene is a member of the leucine-rich repeat and PDZ domain (LAP) family. The encoded protein contains 17 leucine-rich repeats and one PDZ domain. It binds to the unphosphorylated form of the ERBB2 protein and regulates ERBB2 function and localization. It has also been shown to affect the Ras signaling pathway by disrupting Ras-Raf interaction. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2011]

**Product images:**


Circular map for RC220010