

Product datasheet for SC113366

ERBIN (NM_018695) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ERBIN (NM_018695) Human Untagged Clone
Tag:	Tag Free
Symbol:	ERBIN
Synonyms:	ERBB2IP; HEL-S-78; LAP2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_018695 edited
 GAATTCGGCAGGAGAGAACTAGTCTCGAGTTTTGTTTTTTTTTTTTCGGCGGAGAT
 CCTCGTTGGGGCTGGGAACTCCTGCAAACTCGAGACCAGGAAGCCAGCCCGCACCCCA
 ACCCCACCAAAGCCACCTACTCTTCTGTGGGAGGCCAGTCCACATCCGCTCTCACC
 CGAGAGAGATATTCAGCTGGATCCAAAGTGACTGATGAAGGGAAGGAAATCATGTCAAGC
 GAAGCCTTGAAAAAGCTGCCCTGAGACGGTGTCCCGCGAAAGAATGTTGGCTCAATTAA
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 GTTTGTGCGGTTGGTACCATGTCGCTGTCTACGAGGGGAAGAGGAGACTGCTACTACTCT
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 CTTTTATAAGACTAGCTTAAACACCAACCAACATTTTTTGCAAAAAGTGAGTTGGACT
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 TTTGATTGAAACCCTTTAACAACCTTTGTAAATTTAACTCATTTTAGTTGATTTTCAG
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 TAAATTCACCTATTGTATGTGTGTTGTAATCTAAAAAAAAGAAATGACAAACAGCTT
 CTTTAAAAAAAAAAAAAAAAAACTCGAC

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018695 unedited
 GGGTCAACATTTGTATACGACTACTATAGCGGCCGCGNAATTCGCACGAGAGAGAACT
 AGTCTCGAGTTTTGTTTTTTTTTTTTCGGCGGAGATCCTCGTTGGGGCTGGGAACTCC
 TGCAAACTCGAGACCAGGAAGCCAGCCCGCACCCCAACCCCAAGCCACCTACTC
 TTCTTCTGTGGGAGGCCAGTCCACATCCGCTCTCACCCGAGAGAGATTCAGCTGGATC
 CAAAGTGACTGATGAAGGAAGGAAATCATGTCAAGCGAAGCCTTGAAAAAGCTGCCCTG
 AGACGGTGTCCCAGGAAAGAATGTTGGCTCAATTAAGAAACATCAGGGAGATAAATTC
 ACCCAGTGTGCTAAAAATGACTACAAAACGAAGTTTGTGTTGCGGTTGGTACCATGTC
 GCTGTCTACGAGGGAAGAGGAGACTGTCACTACTCTTGATTATTCTCATTGCAGCTTAG
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 CTAATCAGATTGAAGAGCTTCCAAGCAACTTTTTAACTGTCACTTTTACACAACTGA
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 AAGTTTTGACAATTGTGGAGGCCAGTGTAAACCCTATTTCCAGCTCCCTGATGGATTTTC
 TCAGCTGTTAAACCTAACCCATTGTATCTGAATGATGCTTTTCTTGAGTTCTTGCCAGCA
 AATTTTGGCAGATTAACATAACTCCTAAAATAGAGCTTGAGAAAACAGGTAATGTT

3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_018695 unedited NNNNNNNNTTTTACTCTGGACCCGCGGCCGCATACNAGNGATCGGTTTTTTTTTTTTTTTT TTTAAAAAACTGTTTGTCACTTTTTTTTTTTTTTAGATTACAACACACATACAATAAGTGA ATTTTATCAAAATACAGCACATTTCTTCTACTATATCCATAAAAAATCAATTCCTATGTAA ATAGTACTGAAAACTCACTAAAAATGAGTTAAAAATTTACAAAGAGTTGTTAAAGGGTTTCA ATCAAAATTTATTTAACTATACAGTACAATAACCAATTGATAACATCTTGAAAGAAGTGC AATATTTGAGTTCACATATTTTTAAAAAGTGCCTACTTACTCTGACTAGCAAGAAATGG AAAGTGAGTCCAACCTCACTTTTGCAAAAAATAATGTTGGTTGGTGTTTTAAAGCTAGTCTTA TAAAAAGTCTTAATTTAAAAATCAAGTTGATAAAACAAAGCATAACAGATTAATAATCCCAA ATTGCATTTCTTAGTAAATAAAAAATGAAGTGCAATAACCAAATATTGCTCTAATGAAAGG TTCCAGACTAGCCTCACTAAACAGTTATTGGTCTTCTATGGCACTTTTTTCTGGTCCAA ATAACCATGCATTAATCCTTACCATTACATGTTACTCAAATTTTATTGATTACATAGAA CANAAACAAATAAAATTAATGGTCTGGATAAAACAAATTAATAAACCTCTATCATCAAT ATTTGTTACAGTAACTAGGAACAAAGAAAGGCAGTTTGGTGGTAAACACTATTACACTG ATACACATAGAAACCTTTAAGACTCTTGGAGTGGTTGAGTTCACATTAATGTTACTCTGT AAAAACAGCCCTTATTTGAACACCTTTACCACTGGGCAGGCTTAAGGACCA</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_018695
Insert Size:	6250 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_018695.2 , NP_061165.1
RefSeq Size:	6916 bp
RefSeq ORF:	4116 bp

Locus ID:	55914
UniProt ID:	Q96RT1
Cytogenetics:	5q12.3
Domains:	PDZ, LRR, LRR_TYP, LRR_BAC, LRR_PS
Protein Families:	Druggable Genome
Protein Pathways:	NOD-like receptor signaling pathway

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]

Transcript Variant: This variant (2) lacks an exon in the 3' coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (2) is shorter than isoform 1.