

## Product datasheet for MC212237

### Erc1 (NM\_178085) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Erc1 (NM_178085) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Erc1
Synonyms:	4930404L01Rik; 5033405M01Rik; 9630025C19Rik; B430107L16Rik; CAST2; ELKS; Elks1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC212237 representing NM_178085 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGATCTGCAGACACAGCTGAAGGAAGTATTAAGAGAAAACGATCTTTTGAGGAAAGATGTGGAAGTAA  
 AGGAGAGCAAATTAAGTTCATCAATGAATAGTATCAAGACCTTCTGGAGCCAGAGTTAAAGAAAGAGCG  
 GGCCTTGAGAAAAGATGAAGCTTCCAAATCACCATTGGAAGGAGCAGTACCGAGTTGTACAGGAGGAA  
 AACCAGCACATGCAGATGACAATCCAGGCTCTCCAGGATGAGCTGCGGATCCAGAGGGACTTGAATCAGC  
 TGTTTCAGCAAGATAGCAGCAGTAGGACTGGGGAGCCTTGCGTGGCAGAGCTCACAGAGGAGAACTCCA  
 GAGGCTGCATGCTGAGCAGGAGAGGCAAGCCAAAGAGCTGTTTCTTCTGCGGAAGACCCTGGAGGAAATG  
 GAGCTGAGGATTGAGACTCAGAAGCAGACCCTAAATGCTCGGGATGAGTCCATCAAGAAGCTTCTGGAGA  
 TGCTCCAGAGCAAAGGACTTTCTGCCAAAGCTACAGAGGAAGACCATGAGAGAACGCGACGGCTCGCAGA  
 GGCGGAGATGCACGTCCACCACCTCGAGAGTCTTTTGAGCAGAAAGGAAAAAGAGAATAATATGTTGAGA  
 GAGGAGATGCACCGGAGATTTGAAAATGCCCTGATTCTGCCAAGACAAAAGCCTTGCAAACTGTTATTG  
 AAATGAAGGATTCAAAAATTTCTCCATGGAGCGTGGGCTCCGAGACCTGGAAGAGGAAATTCAGATGCT  
 GAAGTCAAATGGGGCTTTGAGTAGTGAGGAGCGGGAGGAAGAGATGAAGCAAATGGAGGTGTACAGGAGC  
 CACTCAAAGTTTATGAAAAATAAGATTGGCCAGGTGAAACAGGAAGTCCAGAAAGGACACAGAATTAC  
 TAGCCTTACAAACAAAGCTAGAACTCTACGAACCAATTCTCAGACAGTAAGCAACATATTGAGGTGCT  
 GAAAGAGTCCCTCACTGCTAAGGAGCAAAGGGCTGCCATCTACAGACTGAGGTAAGAGTTTTTGTGAT  
 TTGTGTAGAATCCAGTCCATACCTAGTTTCATTTTGTATATATTGTTATGTTTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: [https://cdn.origene.com/chromatograms/ja1906\\_e03.zip](https://cdn.origene.com/chromatograms/ja1906_e03.zip)



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<b>Restriction Sites:</b>	Sgfl-MluI
<b>ACCN:</b>	NM_178085
<b>Insert Size:</b>	1107 bp
<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_178085.3</a> , <a href="#">NP_835186.1</a>
<b>RefSeq Size:</b>	2351 bp
<b>RefSeq ORF:</b>	1107 bp
<b>Locus ID:</b>	111173
<b>UniProt ID:</b>	<a href="#">Q99MI1</a>
<b>Cytogenetics:</b>	6 F1

**Gene Summary:**

Regulatory subunit of the IKK complex. Probably recruits IkappaBalpha/NFKBIA to the complex (By similarity). May be involved in the organization of the cytomatrix at the nerve terminals active zone (CAZ) which regulates neurotransmitter release. May be involved in vesicle trafficking at the CAZ. May be involved in Rab-6 regulated endosomes to Golgi transport.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) lacks several exons and its 3' terminal exon extends past a splice site that is used in variant 1. This results in a novel 3' coding region and 3' UTR, compared to variant 1. It encodes isoform 2 which is shorter and has a distinct C-terminus, compared to isoform 1.