

Product datasheet for MR221147

Erc1 (NM_178085) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Erc1 (NM_178085) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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)
ORF Nucleotide Sequence:	>MR221147 representing NM_178085 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATCTGCAGACACAGCTGAAGGAAGTATTAAGAGAAAACGATCTTTTGGGAAAGATGTGGAAGTAA
AGGAGAGCAAATTAAGTTCATCAATGAATAGTATCAAGACCTTCTGGAGCCAGAGTTAAAGAAAGAGCG
GGCCTTGAGAAAAGATGAAGCTTCCAAAATCACCATTTGGAAGGAGCAGTACCGAGTTGTACAGGAGGAA
AACCAGCACATGCAGATGACAATCCAGGCTCTCCAGGATGAGCTGCGGATCCAGAGGGACTTGAATCAGC
TGTTTCAGCAAGATAGCAGCAGTAGGACTGGGGAGCCTTGCCTGGCAGAGCTCACAGAGGAGAACTCCA
GAGGCTGCATGCTGAGCAGGAGGCAAGCCAAAGAGCTGTTTCTTCTGCGGAAGACCCTGGAGGAAATG
GAGCTGAGGATTGAGACTCAGAAGCAGACCCTAAATGCTCGGGATGAGTCCATCAAGAAGCTTCTGGAGA
TGCTCCAGAGCAAAGGACTTTCTGCCAAAGCTACAGAGGAAGACCATGAGAGAACGCGACGGCTCGCAGA
GGCGGAGATGCACGTCCACCACCTCGAGAGTCTTTTGGAGCAGAAGGAAAAAGAGAATAATGTTGAGA
GAGGAGATGCACCGGAGATTTGAAAATGCCCTGATTCTGCCAAGACAAAAGCCTTGCAAACTGTTATTG
AAATGAAGGATTCAAAAATTTCTCCATGGAGCGTGGGCTCCGAGACCTGGAAGAGGAAATTCAGATGCT
GAAGTCAAATGGGGCTTTGAGTAGTGAGGAGCGGGAGGAAGAGATGAAGCAAATGGAGGTGTACAGGAGC
CACTCAAAGTTTATGAAAATAAGATTGGCCAGGTGAAACAGGAACTGTCCAGAAAAGCACAGAAATTAC
TAGCCTTACAAAACAAAGCTAGAAACTCTACGAACCAATTCTCAGACAGTAAGCAACATATTGAGGTGCT
GAAAGAGTCCCTCACTGCTAAGGAGCAAAGGGCTGCCATCCTACAGACTGAGGTAAGAGTTTTTTGTGAT
TTGTGTAGAATCCAGTCCATACCTAGTTTCATTTTGTATATATTTGTTATGTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR221147 representing NM_178085
Red=Cloning site Green=Tags(s)

MDLQTLKEVLRENDLLRKDVEVKESKLSSSMNSIKTFWSPCLKKERALRKDEASKITIWKEQYRVVQEE
 NQHMQMTIQALQDELRIQRDLNQLFQQDSSSRTGEPVAVL TEENFQRLHAEHERQAKELFLLRKTLEEM
 ELRIETQKQTLNARDESIKKLEMLQSKGLSAKATEEDHERTRRLAEAMHVHHLLESLLEQKEKENMMLR
 EEMHRRFENAPDSAKTKALQTVIEMKDSKISSMERGLRDLEEEIQMLKSNAL SSEEREEMKQMEVYRS
 HSKFMKNKIGQVKQELSRKDTLLALQTKLETLTNQFSDSKQHIEVLKESLTAKEQRAAILQTEVKSFC
 LCRIQSIPSFILLYICYV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9038_g09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_178085

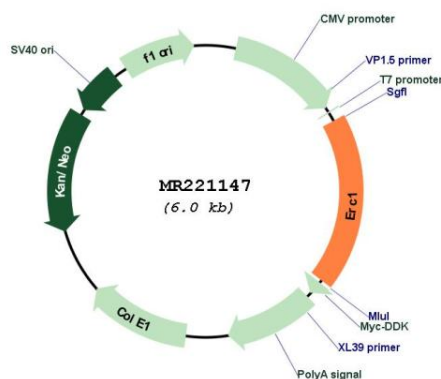
ORF Size: 1104 bp

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 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_178085.3 , NP_835186.1
RefSeq Size:	2351 bp
RefSeq ORF:	1107 bp
Locus ID:	111173
UniProt ID:	Q99MI1
Cytogenetics:	6 F1
MW:	43.9 kDa
Gene Summary:	Regulatory subunit of the IKK complex. Probably recruits IκappaBalpha/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]

Product images:



Circular map for MR221147