

Product datasheet for MR221149

Erc1 (NM_053204) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Erc1 (NM_053204) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Erc1
Synonyms:	4930404L01Rik; 5033405M01Rik; 9630025C19Rik; B430107L16Rik; CAST2; ELKS; Elks1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR221149 representing NM_053204 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTATGGAAGTGCTCGATCAGTAGGGAAGGTGGAACCAAGCAGCCAGAGTCCTGGGCGATCACCTCGGC
TTCTCCGGTCCCCTCGCTTAGGTCATCGGCGAACAAATAGTACAGGAGGGAGTTCTGAAACAGTGTGG
AGGTGGCAGTGGGAAAACCCCTTCAATGGAGAATATACAGTCCTAAATGCTGCCTATGCTACATCTGGC
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CTGGGGGACGCTTGCCTACGGTGTAGGATGACTGCTATGGGCAGTAGCCCCAACATAGCAAGCAGTGG
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CACTCTCTTCGTCAGGCAAGAGATAACACCATCATGGATCTGCAGACACAGCTGAAGGAAGTATTAAGAG
AAAACGATCTTTTGAGGAAAGATGTGGAAGTAAAGGAGAGCAAATTAAGTTCATCAATGAATAGTATCAA
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TTGCGTGGCAGAGCTCACAGAGGAGAACTTCCAGAGGCTGCATGCTGAGCACGAGAGGCAAGCCAAAGAG
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GGAAGACCATGAGAGAACGCGACGGCTCGCAGAGGCGGAGATGCACGTCCACCACCTCGAGAGTCTTTTG
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AGCAAAGGGCTGCCATCCTACAGACTGAGGTGGATGCTCTTCGATTGCGTTTGAAGAAAAAGAGACTAT
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Protein Sequence:

>MR221149 representing NM_053204
 Red=Cloning site Green=Tags(s)

MYGSARSVGKVEPSSQSPGRSPRLPRSPRLGHRRTNSTGGSSGNSVGGGSGKTLSMENIQSLNAAAYATSG
 PMYLSDHENVGAETPKSTMTLGRSGRLLPYGVRMTAMGSSPNIASSGVASDTIAFGEHLLPPVSMASSTVP
 HSLRQARDNTIMDLQTQLKEVLRENDLLRKDVEVKESKLSMNSIKTFWSPELKKERALRKDEASKITI
 WKEQYRVVQEEHQHMOMTIQALQDELRIQRDLNQLFQQDSSSRTGEPVAVELTEENFQRLHAEHERQAKE
 LFLLRKTL EEMELRIETQKQTLNARDES IKKLLEMLQSKGL SAKATEEDHERTRRLAEAEEMHVHLESLL
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 EEMKQMEVYRSHSKFMKNKVEQLKEELSSKDAQGEELKKRAAGLQSEIGQVKQELSRKDTPELLALQTKLE
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 RLKEQRDRDEREKQEEIDTYKKDLKDLREKVSLLQGDSEKEASLLDIKEHASSLASSGLKKDSRLKLE
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 QNRMKLMADNYEDDHFSSRSNTNHPSPDQIIQPLLELDQNRSKLKL YIGHLTALCHDRDPLILRGLT
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

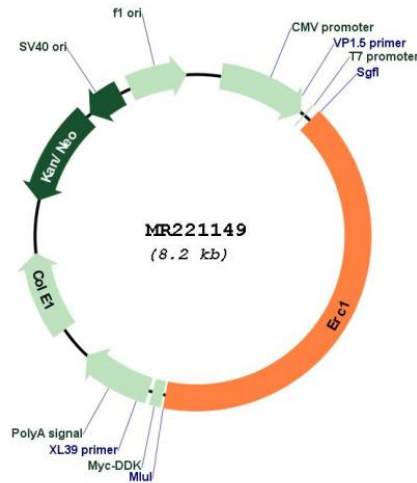
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_053204

ORF Size: 3360 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:	<u>NM_053204.2, NP_444434.2</u>
RefSeq Size:	8760 bp
RefSeq ORF:	3363 bp
Locus ID:	111173
Cytogenetics:	6 F1
MW:	128.8 kDa
Gene Summary:	Regulatory subunit of the IKK complex. Probably recruits I κ B α /NF κ B1 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]