OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC223660

Erc1 (NM_053204) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Erc1 (NM_053204) 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:

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>MC223660 representing NM_053204
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTATGGAAGTGCTCGATCAGTAGGGAAGGTGGAACCAAGCAGCCAGAGTCCTGGGCGATCACCTCGGC
TTCCTCGGTCCCCTCGCTTAGGTCATCGGCGAACAAATAGTACAGGAGGGAGTTCTGGAAACAGTGTTGG
AGGTGGCAGTGGGAAAACCCTTTCAATGGAGAATATACAGTCCTTAAATGCTGCCTATGCTACATCTGGC
CCTATGTACCTAAGTGACCATGAAAACGTGGGTGCAGAAACACCTAAAAGCACCATGACACTTGGCCGTT
CTGGGGGACGCTTGCCTTACGGTGTTAGGATGACTGCTATGGGCAGTAGCCCCAACATAGCAAGCAGTGG
GGTTGCTAGTGATACCATAGCATTTGGAGAACATCACCTCCCTCCTGTTAGTATGGCATCTACTGTACCT
CACTCTCTTCGTCAGGCAAGAGATAACACCATCATGGATCTGCAGACACAGCTGAAGGAAGTATTAAGAG
AAAACGATCTTTTGAGGAAAGATGTGGAAGTAAAGGAGAGCAAATTAAGTTCATCAATGAATAGTATCAA
GACCTTCTGGAGCCCAGAGTTAAAGAAAGAGCGGGCCTTGAGAAAAGATGAAGCTTCCAAAATCACCATT
TGGAAGGAGCAGTACCGAGTTGTACAGGAGGAAAACCAGCACATGCAGATGACAATCCAGGCTCTCCAGG
ATGAGCTGCGGATCCAGAGGGACTTGAATCAGCTGTTTCAGCAAGATAGCAGCAGTAGGACTGGGGAGCC
TTGCGTGGCAGAGCTCACAGAGGAGAACTTCCAGAGGCTGCATGCTGAGCACGAGAGGCAAGCCAAAGAG
CTGTTTCTTCTGCGGAAGACCCTGGAGGAAATGGAGCTGAGGATTGAGACTCAGAAGCAGACCCTAAATG
CTCGGGATGAGTCCATCAAGAAGCTTCTGGAGATGCTCCAGAGCAAAGGACTTTCTGCCAAAGCTACAGA
GGAAGACCATGAGAGAACGCGACGGCTCGCAGAGGCGGAGATGCACGTCCACCACCTCGAGAGTCTTTTG
GAGCAGAAGGAAAAAGAGAATAATATGTTGAGAGAGGAGATGCACCGGAGATTTGAAAATGCCCCTGATT
CTGCCAAGACAAAAGCCTTGCAAACTGTTATTGAAATGAAGGATTCAAAAATTTCTTCCATGGAGCGTGG
GCTCCGAGACCTGGAAGAGGAAATTCAGATGCTGAAGTCAAATGGGGCTTTGAGTAGTGAGGAGCGGGAG
GAAGAGATGAAGCAAATGGAGGTGTACAGGAGCCACTCAAAGTTTATGAAAAATAAGGTAGAGCAACTGA
AGGAGGAGCTAAGTTCGAAAGATGCTCAAGGGGAGGAGCTGAAAAAGAGAGCGGCTGGTCTTCAGTCTGA
GATTGGCCAGGTGAAACAGGAACTGTCCAGAAAGGACACAGAATTACTAGCCTTACAAACAAAGCTAGAA
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ACTCTCACGAACCAATTCTCAGACAGTAAGCAACATATTGAGGTGCTGAAAGAGTCCCTCACTGCTAAGG
AGCAAAGGGCTGCCATCCTACAGACTGAGGTGGATGCTCTTCGATTGCGTTTGGAAGAAAAAGAGACTAT
GCTGAATAAAAAAACCAAGCAAATCCAAGATATGGCTGAGGAGAAGGGCACCCAGGCTGGAGAGATCCAT
GACCTCAAGGACATGCTGGACGTGAAGGAGCGGAAGGTCAATGTCCTCCAGAAGAAGATAGAAAATCTTC
AGGAACAACTAAGAGATAAAGAAAAGCAGATGAGCAGCTTGAAAGAGCGAGTCAAGTCTCTGCAGGCGGA
CACCACTAACACAGACACAGCTCTGACAACTTTGGAGGAGGCTCTTGCAGATAAAGAACGGACAATTGAA
CGCTTAAAGGAGCAGCGGGACAGGGATGAGCGGGAGAAGCAGGAGGAGATTGATACCTACAAAAAAGACC
TCAAAGACCTGAGAGAGAAAGTCAGCCTGCTACAAGGAGACCTCTCAGAAAAGGAGGCTTCTCTCTTGGA
TATCAAAGAGCATGCTTCTTCCCTGGCTTCCTCAGGACTCAAAAAGGACTCGCGGCTCAAGACCCTAGAA
ATTGCTCTTGAGCAGAAGAAGGAAGAGTGCCTAAAAATGGAGTCACAGTTGAAAAAGGCGCATGAAGCAA
CATTGGAAGCCAGAGCCAGTCCAGAGATGAGTGACCGAATACAGCAATTGGAGAGAGAGATTTCCAGGTA
CAAAGATGAATCCAGCAAGGCCCAAACAGAAGTTGACCGTCTCTTGGAAATCTTGAAAGAAGTGGAAAAT
GAGAAGAATGACAAAGATAAGAAGATAGCTGAGTTGGAAAGTCTCACCTCAAGGCAAGTGAAAGACCAGA
ATAAGAAGGTAGCAAATCTGAAACACAAGGAACAGGTGGAGAAGAAGAAGAGTGCCCAGATGCTGGAGGA
GGCCCGCAGAAGGGAGGACAGTCTCAGCGACAGCTCTCAGCAACTGCAGGACAGTCTCCGTAAGAAGGAT
GACAGGATTGAAGAGCTGGAAGAAGCACTGAGAGAAAGTGTACAGATAACTGCAGAGCGTGAAATGGTGC
TGGCACAAGAGGAATCAGCCAGGACCAATGCTGAGAAACAGGTGGAAGAGCTGTTGATGGCTATGGAGAA
GGTGAAGCAGGAACTGGAGTCCATGAAAGCTAAGCTGTCCTCCACCCAGCAGTCTCTGGCCGAGAAGGAG
ACGCACCTAACCAATCTCCGGGCAGAGAGGAGGAAACACTTAGAGGAAGTTCTGGAAATGAAGCAAGAAG
CTCTTCTGGCTGCTATAAGTGAAAAGGATGCTAACATAGCTCTTCTAGAGCTTTCCTCCTCAAAGAAAAA
GACCCAAGAAGAAGTGGCTGCACTGAAACGGGAAAAGGACCGCCTGGTGCAGCAGCTCAAACAGCAGACA
CAAAATCGAATGAAATTAATGGCTGACAACTATGAGGATGACCACTTCAGATCCTCCCGTTCCAATCAGA
CGAACCATAAACCCTCCCCAGACCAGATCATCCAGCCCCTCTTAGAACTTGACCAAAATAGAAGCAAGTT
AAAGTTGTATATTGGACACCTGACAGCCCTCTGCCATGACCGAGACCCCTTAATCCTCCGTGGACTCACT
CCACCAGCTTCTTATAATGCAGATGGTGAGCAGGCAGCTTGGGAGAATGAGCTGCAGAAGATGACTCAGG
AGCAGCTTCAGAACGAGTTGGAGAAAGTTGAAGGGGACAACGCCGAGCTGCAGGAGTTTGCCAACACCAT
TCTCCAGCAGATAGCCGATCACTGCCCTGACATCCTCGAACAAGTGGTCAATGCCCTGGAAGAGTCCTCC
TGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_053204

Insert Size: 3363 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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).

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Reconstitution Method:	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_053204.2, NP_444434.2
RefSeq Size:	8760 bp
RefSeq ORF:	3363 bp
Locus ID:	111173
Cytogenetics:	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 (1) represents the longest transcript and encodes the longer isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.

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