

## Product datasheet for **RR209625**

### **Erc1 (NM\_170788) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Erc1 (NM_170788) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Erc1
Synonyms:	CAST; Cast2; Elks; ERC; ERC1b; Rab6ip2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR209625 representing NM\_170788  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTATGGAAGTCTCGGTCAAGTGGGAAAGTGAACCAAGCAGCCAGAGTCCTGGCGATCACCTCGGC  
 TTCTCGGTCCCCTCGCTTAGGTCATCGGCGAACAAATAGCACAGGAGGGAGTTCTGAAAACAGTGTGG  
 AGGTGGCAGTGGGAAAACCCCTTCAATGGAGAATATACAGTCCTAAATGCTGCCTATGCTACATCTGGC  
 CCTATGTACCTAAGTGACCATGAAAACGTGGTGCAGAAACACCTAAAAGCACCATGACACTTGGCCGTT  
 CTGGAGGACGCCTGCCTACGGGTTAGGATGACTGCTATGGGCAGCAGCCCAACATAGCAAGCAGTGG  
 GGTGCTAGTGATACCATAGCGTTTGGAGAGCATCACCTCCCTCTGTTAGTATGGCGTCCACGGTACCT  
 CACTCTCTTCGTCAGCAAGAGATAACACCATCATGGATCTGCAGACGCAGCTGAAGGAAGTATTAAGAG  
 AAAACGATCTTTTGGAGAAAGATGTGGAAGTAAAGGAGAGCAAATTAAGTTCTTCGATGAATAGCATCAA  
 GACCTTCTGGAGTCCAGAGCTGAAGAAAGAGCGGGCCTTGAGAAAAGACGAAGCTTCCAAAATCACCAT  
 TGGAAGGAGCAGTACCGAGTTGTGACAGGAGGAAAACCAGCACATGCAGATGACAATCCAGGCTCTCCAGG  
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 CTCGGGATGAGTCCATTAAGAAGCTTCTGGAGATGCTACAGAGCAAAGGACTTTCTGCCAAAAGCCACAGA  
 GGAAGACCATGAGAGAACGAGACGGCTGGCGGAGGCAGAGATGCACGTCACACCTAGAGAGTCTTTTG  
 GAGCAGAAGGAGAAGGAGAATAATATGTTGAGAGAGGAGATGCACCGAGATTTGAGAATGCCCTGACT  
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 GAGGAGATGAAGCAAATGGAGGTGTACAGGAGCCACTCTAAGTTCATGAAAAATAAGATTGGCCAGGTGA  
 AACAGGAATTGTCCAGAAAGGACACAGAATTAAGCCTTACAGACAAAGCTAGAAAATCTGACGAACCA  
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 ACACAGCTCTGACGACGCTGGAGGAGGCCCTTGACAGATAAAGAACGAACAATTGAACGCTTAAAGGAACA  
 ACGGGACAGAGATGAGCGAGAGAAGCAAGAGGAGATTGATACCTACAAAAAAGATCTTAAAGACTTGAAA  
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 GCCAGCCAGAGATGAGTGACCGAATACAGCAATTGGAGAGAGAGATTGCCAGGTACAAAGATGAATCCA  
 GCAAGGCCCAAACAGAAGTTGACCGTCTCTTGGAAATCTTGAAGAGGTGAAAAATGAGAAGAATGACAA  
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 GCAAGAGCTGGAGTCCATGAAAGCTAAGCTGCTCCACCCAGCAGTCTCTGGCAGAGAAGGAGACACAT  
 CTAACCAACCTCCGGCAGAGAGAAGGAAACACTTAGAGGAGGTTCTGGAGATGAAACAAGAAGCTCTTC  
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 AGAAGAAGTGGCCGCACTGAAACGGGAAAAGGACCGCTGGTGCAGCAGCTCAAACAGCAGACACAAAAT  
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 ATAAACCTCCAGACCAGGATGAGGAGGAGGTATATGGCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR209625 representing NM\_170788  
 Red=Cloning site Green=Tags(s)

MYGSARSVGKVEPSSQSPGRSPRLPRSPRLGHRRTNSTGGSSGNSVGGGSGKTLSMENIQSLNAAAYATSG  
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 HSLRQARDNTIMDLQTLKEVLRENDLLRKDVEVKESKLSMNSIKTFWSPELKKERLRKDEASKITTI  
 WKEQYRVVQEEHQMQMTIQALQDELRIQRDLNQLFQQDSSSRTGEPVAVELTEENFQRLHAEHERQAKE  
 LFLLRKTL EEMELRIETQKQTLNARDES I K K L L E M L Q S K G L S A K A T E E D H E R T R R L A E A E M H V H H L E S L L  
 EQKEKENMMLREEMHRRFENAPDSAKTKALQTVIEMKDSKISSMERGLRDLEEEIQMLKSNALSTEERE  
 EEMKQMEVYRSHSKFMKNKIGQVKQELSRKDTELLALQTKLETLTNQFSDSKQHIEVLKESLTAKEQRAA  
 ILQTEVDALRLLEEKETMLNKKTKQIQDMAEEKGTQAGEIHDLDKMDLVKERKVNVLQKKIENLQEQLR  
 DKEKQMSLKERVKSQADTTNTDTALTTLEALADKERTIERLKEQRDRDEREQEEIDTYKKDLKDLK  
 EKVSLLQGDSEKEASLLDLKEHASSLASSGLKKSRLKTL E I A L E Q K K E E C L K M E S Q L K K A H E A T L E A R  
 ASPEMSDRIQQLEREIARYKDESSKAQTEVDRLLEILKEVENEKNDKDKIAELESLSRQVKDQNKKVA  
 NLKHKEQVEKKSAQMLEARRREDSLSDSSQQLQVEELLMAEKVKQELESMKAKLSSTQQSLAEKETH  
 LTNLRAERRKHLEEVLEMKQEAALLAAISEKDANIALLELSSSKKKTQEEVAALKREKDRLVQQLKQQTQN  
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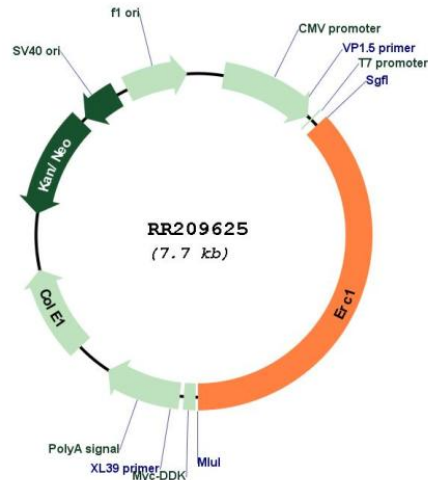
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_170788

**ORF Size:** 2844 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:**

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\\_170788.2](#), [NP\\_740769.2](#)

**RefSeq Size:** 3429 bp

**RefSeq ORF:** 2847 bp

**Locus ID:** 266806

**UniProt ID:** [Q811U3](#)

**Cytogenetics:** 4q42

**MW:** 108.8 kDa

**Gene Summary:** bind to the conserved PDZ domain of presynaptic active zone proteins termed RIMs [RGD, Feb 2006]