

Product datasheet for **RN210787**

Erc2 (NM_170787) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Erc2 (NM_170787) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Erc2
Synonyms:	CAST; Cmbp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>RN210787 representing NM_170787

Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGTACGGGAGCGCAAGAACAATCAGCAATCCGGAAGGCAGCCCTTCAGATCGCCGCGTTTGCCAAGGT
CTCCTCGTTTGGGCCACCGAAGAACAAGCAGTGGGGGAGGGGAGGGACAGGCAAGACTCTGTCTATGGA
GAACATCCAGTCCCTTAATGCGGCCTATGCCACGTCTGGACCCATGTACTTGAGTGACCATGAAGGGGTG
GCATCAACAACCTACCCAAAGGGCACCATGACTCTAGGCAGGGCCACAAATCGAGCTGTTTATGGAGGCC
GGGTACAGCCATGGGGAGTAGTCCCAATATTGCTTCCGTGGACTTTCCACACAGATGTCCTTTCATA
TACGGATCAACATGGAGGGCTGGTGGCTATCCACCACCACCACCAGGTGCCCTCCATGTTGAGG
CAGGTAAGAGACAGCAGATGTTGGATCTTCAAGCCAGCTCAAAGAACTGCAGAGAGAGAATGACCTCC
TTCGAAGGAGCTTGACATTAAGGACAGCAAACTGGGGTCTTCCATGAATAGCATCAAGACTTTCTGGAG
TCCCGAGCTTAAGAAGGAGAGAGTCTTGAGGAAAGAGGAGGCTGCTCGCATGTCTGCTCAAGGAGCAG
ATGAGGGTTTCTACGAAGAAAACAGTTACTGGACGCCAGAAGAACGAAGCACCTGCAGTTGACCATCC
AGGCCCTTCAGGATGAACTGCGGACCCAGAGAGACCTCAACCACCTCCTGCAGCAAGAGAGTGGCAACCG
AGGAGCAGAGCATTTACCATCGAGCTGACGGAGGAGAACTTCCGCAGGCTCCAAGCCGAACACGACAGG
CAGGCCAAGGAGCTGTTCTTCTGCGGAAGACATTGGAAGAAATGGAGCTAAGGATTGAAACACAGAAAC
AGACTCTCAATGCCCCGCGACGAGTCCATTAAGGCTCCTGGAGATGCTGCAGAGTAAGGGCTTGCCATC
GAAAAGCCTAGAGGACGACAACGAGCGCACACGGCGGATGGCCGAGGCTGAGTCTCAGGTGAGCCACTTG
GAAGTGATTTAGACCAGAAGGAGAAGGAAAACATCCACTGAGAGAGGAATTGCACCGAAGAAGCCAAC
TTCAGCCGAGCCAGCCAAGACGAAGGCGCTCCAGACTGTCATCGAAATGAAGGACACAAAAATTGCTTC
ACTGGAGCGGAACATCCGGGACCTCGAGGATGAGATCCAGATGTTGAAAGCCAATGGTGTGCTCAACACA
GAGGACCGAGAGGAGGAGATCAACAGATCGAGGTGTACAAAAGCCACTCCAAGTTTATGAAGACCAAGA
TTGACCAGCTGAAACAGGAACCTTCCAAGAAGGAGTCAAGACTTCTTGCCTTACAAAACAAAGCTTGAAC
CCTTAGCAATCAGAATTCAGATTGCAAGCAACACATTGAAGTGCTTAAAGAGTCACTTACTGCCAAAGAA
CAGAGGGCTGCCATCCTTCAGACTGAGATTGAAAACCTGCAAGAACAACCTAGGGATAAGGACAAACAAC
TGACCAACCTGAAAGACAGAGTGAAGTCCCTGCAGACGGACTCCAGCAACACTGACACTGCTCTGGCCAC
TCTGGAGGAGGCTTGTGCGAAAAGGAGAGAATAATAGAGCGCTTGAAGAGCAGAGGGAGAGAGATGAT
CGGGAAGACTAGAAGAGATAGAATCCTTTCGAAAGGAGAACAAGACCTCAAAGAGAAGGTCAATGCTT
TACAGGCTGAGCTGACAGAGAAAGAGTCTAGTTTAATCGACCTCAAAGAACATGCATCTTATTAGCTTC
TGCAGGACTGAAGAGGACTCGAAACTGAAGTCTCTAGAAATAGCCATTGAACAAAAGAGGAGGATGC
AACAACTAGAAGCACAATTGAAAAGCAAGCTGAACAGTTGTTCAATCAGATGTACAATCCAGCACATA
ATATTGAAGATGACTCCAGGATGAACCCGAGTTTGCAGACCGACTGAAACAGCTGGACAAGGAAGCATC
TTACTACCGTGATGAGTGTGGCAAGGCTCAAGCAGAAGTCGACAGGTGCTGGAGATCCTCAAGGAGGTG
GAGAATGAGAAAAACGACAAAGACAAGAAGATTGCGGAACCTGAGAGCTTGAATCTCAGGCATATGAAAG
ATCAGAATAAGAAGGTGGCCAACCTCAAGCACAACCAACAGCTGGAGAAGAAGAAGAACGCCAGTTATT
AGAAGAAGTGCCTGGCAGAGAAGATAGCATGGTTGACAACTCACAGCATTTGCAGATCGAGGAGCTGATG
AATGCCTTGGAGAAGACCAGACAGGAACCTGGACGCCACCAAGCACGCTCGCCTTACCCAGCAATCAT
TGGCTGAGAAGGAAGCACACCTAGCCAATCTCCGGATGGAGAGGAGGAAACAACCTAGAGGAGATCTTGA
GATGAAACAGGAAGCGTTACTTGCGGCCATCAGTGAAAAGGATGCAACATTGCCTTGTGGAGTTATCT
GCCTCCAAGAAGAAAAGACGACAGGAGGAAGTCATGGCACTGAAGCGAGAGAAAGACCGACTGGTGCATC
AGTTAAAGCAGCAGACCCAGAATAGAATGAAGCTGATGGCAGACAACATGACGACGACCAACCATT
CCACCACCACCATCACCACCACCACCGGTCTCCTGGGAGGTACAGCATTCCAACCACAGGCCCTCT
CCGACCAGGATGACGAGGAGGCATATGGGCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-MluI

ACCN:	NM_170787
Insert Size:	2766 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).
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:	<u>NM_170787.2</u> , <u>NP_740768.1</u>
RefSeq Size:	2770 bp
RefSeq ORF:	2766 bp
Locus ID:	259269
UniProt ID:	<u>Q8K3M6</u>
Cytogenetics:	16p16
Gene Summary:	may play roles in synapse formation and Ca(2+)-dependent neurotransmitter exocytosis [RGD, Feb 2006]