

Product datasheet for **RR208545**

Ero1a (NM_138528) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ero1a (NM_138528) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ero1a
Synonyms:	Ero1l
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR208545 representing NM_138528
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGCCGCGCCTGGGGCTTGTCTCGTGGACTCTTGGGCGTCGTGTGGCTGCTGCGCTTGGCCACGGCG
 AGGAGCGGCGGCCGAGACAGCGGCACAGCGGTGTTTCTGTAGGTTAGTGGTTACTGGATGACTGTAC
 CTGTGATGTCGAGACCATCGATAAGTTTAACTACAGACTTTTCCCAAGACTACAAAAGCTCCTTGAA
 AGTGACTACTTTAGATACTACAAGGTAACCTTGAGGAAGCCATGTCTTTCTGGAATGACATCAACCAAT
 GTGGAAGAAGAGACTGTGCTGTCAAACCCTGCCATTCTGATGAAGTCCCTGATGGAATTAAGTCTGCGAG
 CTACAAGTATCCAAGGAAGCCAACCTCCTTGAGGAGTGTGAGCAGGCTGAGCGGCTCGGAGCAGTGGAC
 GAATCTCTGAGTGAAGGAGACCCAGAAGGCTGTTCTTCAGTGGACGAAACACGATGATTCTTCAGACAGCT
 TCTGTGAAGTTGATGACATACAGTCCCCGATGCTGAGTATGTGGATTTACTCCTAACCCCTGAGCGCTA
 CACAGGCTACAAGGGCCGGACGCTTGGAGGATATGGAGTGTCTATGAAGAAAAGCTGCTTTAAGCCA
 CAGACAATTCAAAGGCCCTTTGGCTTCGGGGCAAGGAAAACATAAAGAGAACACATTTTACAGCTGGCTAG
 AAGGCCTCTGTGTAGAAAAGAGAGCATTCTACAGGCTTATATCTGGCCTACACGCAAGCATCAATGTACA
 TTTGAGTGCAAGGTATCTTTTACAAGATAATTGGCTGGAAAAGAAATGGGGTCATAATGTACAGAGTTT
 CAGCAGCGCTTTGATGGGGTTTTGACAGAAGGAGAAGGCCCCAGGAGGCTGAAGAACCTGTACTTTCTTT
 ACCTGATAGAGTTAAGGGCTCTCTCTAAAGTGCCTCCGTTTTTCGAGCGCCAGATTTTCAGCTCTTAC
 TGGAAATAAGTTCAAGATGTGGAAAACAAGAGTTACTTCTGGAGATTTCTCATGAAGTCAAGTCAATTT
 CCTTTGCATTTTATGAGAATCTTTTTTTCGGGGGATAAACACGAAGCACATAAGCTAAAGGAGGACT
 TCCGCCTACACTTTAGAAACATCTCGAGGATCATGGACTGCGTCCGCTGCTTCAAGTCCCGCTGTGGGG
 CAAGCTTCAGACTCAGGGTCTGGGCACTGCTGAAGATCTTGTGTTTTCTGAAAAACTGATCGCAAAATATG
 CCGGAAAGCGGACCCAGTTATGAATCCAGCTAACAGACAAGAAATAGTGTGTTGTTCAATGCATTTG
 GAAGGATTTCCACAAGTGTGAGAGAATTAGAGAACTTCAGACACTTGTACAGAATGTTAC

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Protein Sequence:

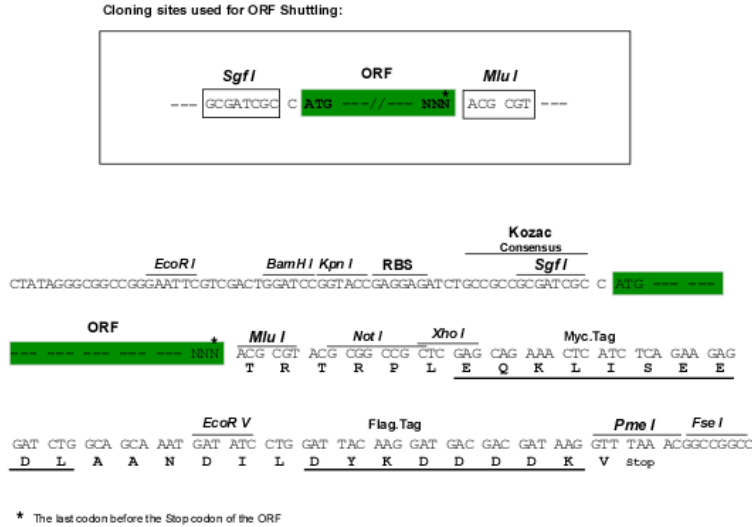
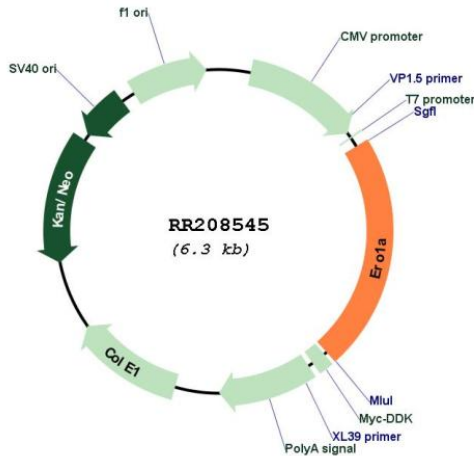
>RR208545 representing NM_138528
 Red=Cloning site Green=Tags(s)

MRAWGLLVGLLGVVWLLRRLGHGEERRPETAQRCFCQVSGYLDCTCDVETIDKFNNYRFLPRLQKLL
 SDYFRYYKVNLRKPCPFWINDINQCGRRDCAVKPCHSDEVPDGIKSASYKYSKEANLLEECEQAERLGA
 VDSLSEETQKAVLQWTKHDDSSDSFCEVDDIQSPDAEYVDLLLNPERYTGKGPDAWRIWISVIYEENCFK
 PQTIRPLASGQGHKENTFYSWLEGLCVEKRAFYRLISGLHASINVHLSARYLLQDNWLEKKWGHNVTEF
 QQRFDGVLTEGEGPRLKLYFLYLIELRALSKVLPFFERPDFQLFTGNKVQDVENKELLLLEILHEVKS
 FPLHFDENSFFAGDKHEAHLKEDFRLHFRNISRIMDCVGCFCRLLWGLQGLTALKILFSEKLIANM
 PESGPSYEFQLTRQEIIVSLFNAFGRISTSVRELENFRHLLQNVH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_138528

ORF Size: 1392 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_138528.1](#), [NP_612537.1](#)

RefSeq Size: 2361 bp

RefSeq ORF: 1395 bp

Locus ID: 171562

UniProt ID: [Q8R4A1](#)

Cytogenetics: 15p14

MW: 54.1 kDa

Gene Summary: may function in ischemia-induced neuronal repair; may be involved in offsetting abnormalities in protein folding, distribution, or maturation [RGD, Feb 2006]