

Product datasheet for **RR209370**

Ern2 (NM_001108919) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ern2 (NM_001108919) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ern2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR209370 representing NM_001108919
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGAGACCAGTCCAGAGTTTCCAAGTGTGGTCTGCCCTCGGGTTCTGCTGCAGCTTGAATCTTTCT
 TGGGAAACTCGGTCCACAGGTCCAATCCGTCAGGCCAGAGACCTTCTGTTTGTCTCTACCTTGGATGG
 AAGTCTCCATGCACTGAACAAGCAGACAGGGGACTTGAAGTGGACAGTGAAGGATGACCCCATCATCCAG
 GGACCAATGTATGTCACAGAAATGGCCTTCTCTCTGACCCAGCTGATGGCAGCCTGTACATCTTGGGAA
 CCCAGAAACAACAGGGGCTGATGAAACTGCCATTTACCATCCCAGAGCTGGTTCACGCCTCTCCTTGTCTG
 CAGCTCTGATGGTGTCTTCTACACGGGCCGGAAGCAGGATGCCTGGTTTGTGGTGGACCTGAGTCAGGG
 GAGACTCAGATGACACTGACCACAGAGGGCTTTTCTACTCCTCAACTCTACATTGGCCGGACACAGTACA
 CAGTCTCCATGCATGACCCACGGACCCCAACCCTGCGCTGGAACACAACCTACCGCCGCTACTCTGCGCC
 CCCCGTGGACGGCTCACCTGGGAAATACATGAGCCACTTGACATCCTGTGGGATGGCCCTGCTTCTCACT
 GTGGATCCAGGAAGTGGAACTGTGCTGTGGACACAGGACCTGGGAGTGCCTGTGACAGGGATCTACACAT
 GGCATCAGGATGGTCTGCGACAGCTGCCCATCTTACCCTGGCTCGGGACACCCTACATTTCTTGTCTCT
 CCGCTGGGGCCACATCCGCTTCTCTGCCTCCAGCTCCCAGGACACAGTACCCAGTTCTCTTCTTAGAC
 ACCGAACTTTTGTGACTGTATGTGGGGAAAGAAGCTGGTTTCTATGTCTCTAAAGCACTGGTCC
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 GCCCTTCCAGCCAGTGGCTACTCATTGGATACCATGAACCTCCCCTGTCTGCACACCACCATGCTAA
 GGGTTACAGCTACCCAGGAAAGGGTCTGCTGACACAAGAGACTCAGACGACCTCCATGCTCCAGCTCT
 CTCTTTGAGTTCTAAACCTGAAGAGGGAGGAACCTTGGGATCCAGAACTACATCCTGAAGAGAAAGCT
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 GGGTCTCTACCTGATGAGGCAGCAGCAGAGTCTTTCAGCACCTGCAGGCCCTTTCAGACCTCCACACA
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 ATGTGCTGGGCCGTGGGGCAGGAGGAACTTTGTCTTCCGAGGACAGTTTGGGGACGGCAGTGTCTGT
 GAAGAGGCTCCTCCGAGAGTGTTCAGCTTGGTTCAGCGAGAGGTGCAGCTGCTGCAAGAGTCTGACAGG
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 GCCAGGCCTCCTTGCAAGAGTATGTGGAGAGCCAGACCTAGACCCTGGGGCCTTGGGCCCTACCATGGT
 GCTGCAACAGATGATGTCCGGCCTGGCCACCTGCATTCTTTACACATAGTACACCGTGACCTCAAGCCG
 GGCAACATTCTCATGGCTGGGCCTGACAGCCAGGGCCAAGGCAGAGTGGTCATCTCTGACTTCGGCCTCT
 GCAAGAAGTTACCTGCTGGCCGTGTAGCTTCACTCTCCATTCTGGTATTCGCGCACAGAAGGCTGGAT
 GGCTCCAGAGCTACTGCAACTGCCCCAGACAGCCGACCAGCGCGGTGGATATCTTCTCTGAGGCTGT
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 GAAAGCCATGCTGAGCCTGCTGCCCCAGGATCGTCCCTCAGCAGGATGGGTGCTGGCTCACCCCTCTTT
 TGGAGCAGAGCTAAGGAACTCCAGTTCTTCCAGGATGTCAGTACTGGTTGGAGAAGGAACAGAGCAGG
 GACCTCTCGTGACGGCGCTGGAGGCAGGAAGCTACAAGGTGGTCCGGGAAAAGTGTACAAGCACATCTC
 AGCACCTCTGCAGGAAGACCTGAAAAGGTTCCGGTCATATAAAGGGACATCAGTGCAGAGCTGCTCCGT
 GCCATGAGGAACAAGAAGCACCCTACAGGGAGCTCCCAACCGAGGTGCGCCAGACACTGGGCCAACTTC
 CTGCTGGCTTCGCCCAATACTTACACAGCGCTTTCCAGGCTGCTACTGCACACTACCGTGCCATGAG
 GACCTGTGCTTCTGAGAGCCTCTTCTGCCCTACTATCCAGCAGCATTGGAAGCCAGGGGCTCCTGCCAG
 GTGCCACAAGAGCGGAGACACCAGAGGCCCAAGGCAGACCAAGGAGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGAT AAGGTTTAA

Protein Sequence: >RR209370 representing NM_001108919
 Red=Cloning site Green=Tags(s)

MARPVQSFQLWSALGFLQLAIFLGKLGQPQVSVRPESLLFVSTLDGSLHALNKQTGDLKWTVKDDPIIQ
 GPMYVTEMAFLSDPADGSLYILGTQKQQLMKLPFTIPELVHASPCRSSDGVFYTRKQDAWFVVDPESG
 ETQMTLTTEGFSTPQLYIGRTQYTVSMHDPRTPTLRWNTTYRRYSAPPVDGSPGKYMHLTSCGMGLLLT
 VDPGSGTVLWTQDLGVPVTGIYTWHQDGLRQLPHLTLARDTLHFLVLRWGHIRLPASSSQDVTQFSSLD
 TELLMTLYVYKKEAGFYVSKALVHAGVALVPRGLTLAPMDGPTTDEVTVQVSGEREGSPSTAVRYPGSGV
 ALPSQWLLIGYHEPPVHLHTMLRVQRTPGKGSADTRDSDDLHAPALSFEFLNLKREEPWDELHPPEKA
 DTYPGLGSQDLLAASFTAILLGAWVLYLMRQQQSPSAPAGPSDLPQDTQVQLSRDTLQNQRRFQSPPEP
 VQPAHDPEAEQPTVVGKISFNPKDVLGRGAGGTFFVRGQFEGRAVAVKRLRECFSLVQREVQLQESDR
 HPNVLYRFCTEQGPQFHIALELCQASLQEYVESPDLDWRGLGPTMVLLQMMMSGLAHLHSLHIVHRDLKP
 GNILMAGPDSQGGQGRVVISDFGLCKKLPAGRCFSLHSGIPGTEGWMAPELLQLPPDSPTSAVDIFSAGC
 VFYYVLSGGSHPFGESELYRQANILSGDHCLAQLQEETHDKVVALDLVKAMLSLLPQDRPSAGWLAHPLF
 WSRAKELQFFQDVSVDWLEKEPEQGPLVTALEAGSYKVVRENWYKHSAPLQEDLKRFRSYKGTSVRDLRLR
 AMRNKKHHYRELPTVTRQLGQLPAGFAQYFTQRFPRLLLHTRAMRTCASESLFLPYPAALEARGSCQ
 VPQRAETPRGPKGRPRS

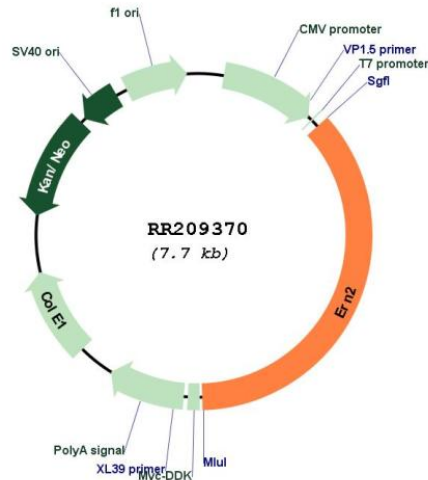
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001108919

ORF Size: 2781 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_001108919.1](#), [NP_001102389.1](#)

RefSeq Size: 2878 bp

RefSeq ORF: 2784 bp

Locus ID: 365363

Cytogenetics: 1q36

MW: 103.1 kDa