

## Product datasheet for **MR230040**

### Erg (NM\_001302179) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Erg (NM_001302179) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Erg
Synonyms:	D030036I24Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>MR230040 representing NM\_001302179  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATCCAGACTGTACCTGACCCAGCAGCTCATATTAAGGAGGCCTTGTCAAGTGTGAGCGAGGACCAGT  
 CACTATTTGAGTGTGCCTACGGAACGCCACACCTGGCTAAGACAGAGATGACCGCATCCTCTCCAGTGA  
 CTATGGCCAGACATCCAAGATGAGTCCCAGAGTCCCTCAGCAGGACTGGCTGTCTCAAGCCCCAGCCAGG  
 GTCACCATCAAGATGGAGTGCAACCCTAGTCAGGTGAATGGTTCCAGGAACTCACCTGATGAGTGCAGTG  
 TGAACAAAGGTGGGAAGATGGTGGGCAGCCGGATACTGTGGGGATGAGCTACGGCAGCTACATGGAGGA  
 GAAGCATGTGCCGCTCCAATATGACCACAAATGAGCGCAGAGTGATCGTCCCTGCAGATCCTACTCTG  
 TGGAGCACAGACCATGTCCGACAGTGGCTGGAGTGGGCGGTGAAAGAATATGGCCTCCTCGATGTGGACG  
 TCTTACTATTTTCAAGATATCGATGGGAAGGAGCTGTGCAAGATGACAAAGGATGACTTCCAGCGGCTCAC  
 GCCGAGCTACAATGCCGACATTCTCTCTCACATCTCCACTACCTCAGAGAGACTCCCCTCCACATCTG  
 ACTTCCGATGACGTTGATAAGGCTTTACAAAACCTCCACGGTTAATGCATGCCAGAAACACAGGGGGTG  
 CAGCTTTTATTTCCAAATACTTCAGTATATCCCGAAGCTACGCAAAGAATTACAACTAGGCCAGCTGC  
 TCAGCCATCTCCCTCTGCAGTGGCCAAAACCTGAAGACCAGCGTCCCTCAGTTAGATCCTTACCAGATCCTG  
 GGACCGACCAGTAGCCGCTTGCTAATCCAGGTAGTGGCCAGATCCAGCTGTGGCAGTTCCTGCTCGAAC  
 TCCTGTCAGACAGCTCCAACCTCAACTGCATCACCTGGGAAGGCCACCAACGGGGAGTTCAAGATGACAGA  
 CCCGGACGAGGTGGCTCGGCGCTGGGGGAGAGGAAGAGCAAGCCCAACATGAACATGACAAGCTCAGC  
 CGCGCCCTCCGCTACTACTACGACAAAAACATCATGACCAAGGTGCACGGGAAGCGCTACGCCTACAAGT  
 TTGACTTCCACGGGATTGCCAGGCCCTGCAGCCCCACCCTCCTGAGTCGTCCCTGTACAAGTACCCCTC  
 CGACCTGCCATACATGGGCTCCTATCACGCCACCCCCAGAAGATGAACTTTGTGTCTCCCCACCCCTCCC  
 GCTCTCCAGTCACATCTTCCAGTTTCTTTGCTTCCCCGAACCCATACTGGAATTCACCGACTGGGGGCA  
 TCTACCGAACACTAGGCTCCAGCCAGCCATATGCCCTCTCACCTGGGCACCTACTAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR230040 representing NM\_001302179  
 Red=Cloning site Green=Tags(s)

MIQTVDPAAHIKEALSVVSEDQSLFECAYGTPHLAKTEMTASSSSDYGQTSKMSPRVPPQDWSQAPAR  
 VTIKMECNPSQVNGSRNSPDECSVNKGGKMGVSPDVGMSYGSYMEEKHVPPNMTNERRVIVPADPTL  
 WSTDHVRQWLEWAVKEYGLLDVDVLLFQNIIDGKELCKMTKDDFQRLTPSYNADILLSHLHYLRETPHPL  
 TSDDVDKALQNSPRLMHARNTGGAIFPNTSVYPEATQRITTRPAAQSPSAVPKTEDQRPQLDPYQIL  
 GPTSSRLANPGSQIQLWQFLLELLSDSSNSNCITWEGTNGEFKMTDPDEVARRWGERKSKPNMNYDKLS  
 RALRYYYDKNIMTKVHGKRYAYKFDHFGIAQALQPHPESSLKYPYSDLPYMGSYHAHPQKMNFSVPHPP  
 ALPVTSSSFFASPNPYWNSPTGGIYPNTRL PASHMP SHLGTYY

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

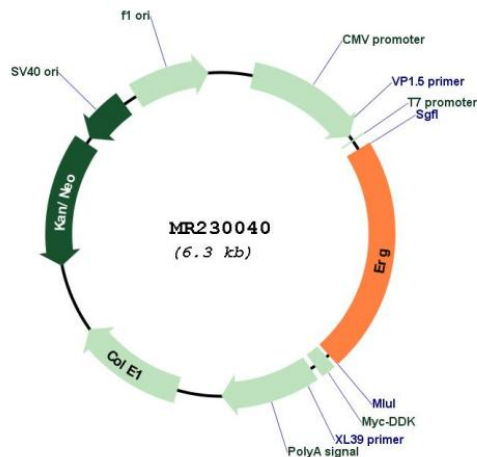
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001302179

ORF Size: 1389 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\\_001302179.1](#), [NP\\_001289108.1](#)

**RefSeq Size:** 3190 bp

**RefSeq ORF:** 1392 bp

**Locus ID:** 13876

**UniProt ID:** [P81270](#)

**Cytogenetics:** 16 56.04 cM

**MW:** 52.4 kDa

**Gene Summary:** Transcriptional regulator. May participate in transcriptional regulation through the recruitment of SETDB1 histone methyltransferase and subsequent modification of local chromatin structure.[UniProtKB/Swiss-Prot Function]