

Product datasheet for **MR230000**

Erg (NM_001302154) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Erg (NM_001302154) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Erg
Synonyms:	D030036124Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>MR230000 representing NM_001302154
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAGCACTATTAAGGAGGCCTTGTCACTGTGAGCGAGGACCAGTCACTATTTGAGTGTGCCTACG
 GAACGCCACACCTGGCTAAGACAGAGATGACCGCATCCTCTTCCAGTGACTATGGCCAGACATCCAAGAT
 GAGTCCCAGAGTCCCTCAGCAGGACTGGCTGTCTCAAGCCCCAGCCAGGGTCACCATCAAGATGGAGTGC
 AACCTAGTCAGGTGAATGGTCCAGGAACTCACCTGATGAGTGCAGTGTGAACAAAGGTGGGAAGATGG
 TGGGCAGCCCGGATACTGTGGGATGAGCTACGGCAGCTACATGGAGGAGAAGCATGTGCCGCCCTCCAA
 TATGACCACAAATGAGCGCAGAGTATCGTCCCTGCAGATCCTACTCTGTGGAGCACAGACCATGTCCGA
 CAGTGGCTGGAGTGGCGGTGAAAGAATATGGCCTCCTCGATGTGGACGCTTACTATTTTTCAGAATATCG
 ATGGGAAGGAGCTGTGCAAGATGACAAAGGATGACTTCCAGCGGCTCACGCCGAGCTACAATGCCGACAT
 TCTTCTCTCACATCTCCACTACCTCAGAGAGACTCCCCTTCCACATCTGACTTCCGATGAGGTTGATAAG
 GCTTTACAAAACCTCTCCACGGTTAATGCATGCCAGAAACACAGGGGGTGCAGCTTTTATTTTCCCAAATA
 CTTTCAGTATATCCGAAGCTACGCAAAGAATTACAACAGGCCAGCTGCTCAGCCATCTCCCTCTGCAGT
 GCCAAAACCTGAAGACCAGCGTCTCAGTTAGATCCTTACCAGATCCTGGGACCGACAGTAGCCGCCTT
 GCTAATCCAGGTAGTGGCCAGATCCAGCTGTGGCAGTTCCTGCTCGAACTCCTGTGACAGCTCCAAC
 CCAACTGCATCACCTGGGAAGGCACCAACGGGGAGTTCAGATGACAGACCCGGACGAGGTGGCTCGGCG
 CTGGGGGAGAGGAAGAGCAAGCCCAACATGAACTATGACAAGCTCAGCCGCGCCTCCGCTACTACTAC
 GACAAAAACATCATGACCAAGGTGCACGGGAAGCGCTACGCCACAAGTTTGACTTCCACGGGATTGCC
 AGGCCCTGCAGCCCCACCCTCCTGAGTCGTCCCTGTACAAGTACCCTCCGACCTGCCATACATGGGCTC
 CTATCACGCCACCCCCAGAAGATGAACTTTGTGTCTCCCAACCTCCCGCTCTCCAGTCACATCTTCC
 AGTTTCTTTGCTTCCCCGAACCCATACTGGAATTCACCGACTGGGGCATCTACCCGAACACTAGGCTCC
 CAGCCAGCCATATGCCCTCTCACCTGGGCACCTACTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230000 representing NM_001302154
 Red=Cloning site Green=Tags(s)

MASTIKEALSVMSEDSQSLFECAYGTPHLAKTEMTASSSSDYGQTSKMSPRVPQQDWLSQAPARVTIKMEC
 NPSQVNGSRNSPDECSVNKGGKMGVSPDTVGMSYGSYMEEKHVPPNMTNERRIVPADPTLWSTDHVR
 QWLEWAVKEYGLLDVDVLLFQNIIDGKELCKMTKDDFQRLTPSYNADILLSHLHYLRETPLPHLTSDDVDK
 ALQNSPRLMHARNTGGAAFIFPNTSVYPEATQRITTRPAAQSPSAVPKTEDQRPQLDPYQILGPTSSRL
 ANPGSGQIQWQFLLELLSDSSNSNCITWEGTNGEFKMTDPDEVARRWGERKSKPNMNYDKLSRALRYYY
 DKNIMTKVHGKRYAYKDFHGIQALQPHPESSLYKYPSDLPYMGSYHAHPQKMNFSVPHPPALPVTSS
 SFFASPNPYWNSPTGGIYPNTRLPASHMPSHLGTYT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

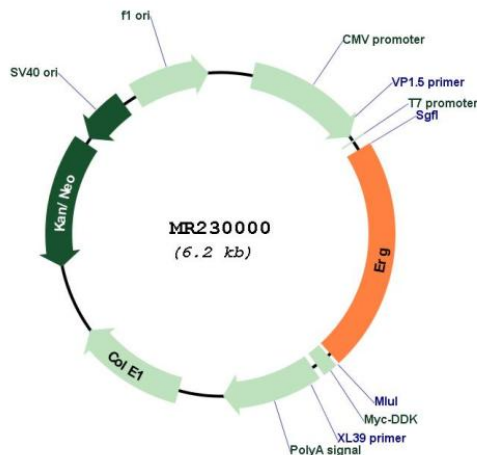
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001302154

ORF Size: 1368 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_001302154.1](#), [NP_001289083.1](#)

RefSeq Size: 3121 bp

RefSeq ORF: 1371 bp

Locus ID: 13876

UniProt ID: [P81270](#)

Cytogenetics: 16 56.04 cM

MW: 51.7 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]