

Product datasheet for **MR225536**

Erg (NM_133659) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Erg (NM_133659) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Erg
Synonyms:	D030036I24Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR225536 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATCCAGACTGTACCTGACCCAGCAGCTCATATTAAGGAGGCCTTGTGAGTTGTGAGCGAGGACCAGT
 CACTATTTGAGTGTGCCTACGGAACGCCACACCTGGCTAAGACAGAGATGACCGCATCCTCTCCAGTGA
 CTATGGCCAGACATCCAAGATGAGTCCCAGAGTCCCTCAGCAGGACTGGCTGTCTCAAGCCCCAGCCAGG
 GTCACCATCAAGATGGAGTGCAACCCTAGTCAGGTGAATGGTTCCAGGAACTCACCTGATGAGTGCAGTG
 TGAACAAAGGTGGGAAGATGGTGGGCAGCCGGATACTGTGGGGATGAGCTACGGCAGCTACATGGAGGA
 GAAGCATGTGCCCTCCAATATGACCACAAATGAGCGCAGAGTGATCGTCCCTGCAGATCCTACTCTG
 TGGAGCACAGACCATGTCCGACAGTGGTGGAGTGGGCGGTGAAAGAATATGGCCTCCTCGATGTGGACG
 TCTTACTATTTTCAAGATATCGATGGGAAGGAGCTGTGCAAGATGACAAAGGATGACTTCCAGCGGCTCAC
 GCCGAGCTACAATGCCGACATTCTCTCACATCTCCACTACCTCAGAGAGACTCCCCTCCACATCTG
 ACTTCCGATGACGTTGATAAGGCTTTACAAAACCTCCACGGTTAATGCATGCCAGAAACACAGGGGGTG
 CAGCTTTTATTTCCAAATACTTCAGTATATCCCGAAGCTACGCAAAGAATTACAACACTAGGCCAGATTT
 ACCTTATGAGCCTCCCAGGAGATCAGCCTGGACCGGCCACAGCCACCTCACCCCTCAGTCCAAAGCTGCT
 CAGCCATCTCCCTCTGCAGTGCCAAAACCTGAAGACCAGCGTCTCAGTTAGATCCTTACCAGATCCTGG
 GACCGACCACTAGCCGCTTGTCTAATCCAGGTAGTGGCCAGATCCAGCTGTGGCAGTTCTGTCTCGAACT
 CCTGTGACAGCTCCAACCTCCAACCTGCATCACCTGGGAAGGCACCAACGGGGAGTTCAAGATGACAGAC
 CCGGACGAGGTGGCTCGGCGCTGGGGGAGAGGAAGAGCAAGCCCAACATGAACATGACAAGCTCAGCC
 GCGCCCTCCGCTACTACTACGACAAAACATCATGACCAAGGTGCACGGGAAGCGCTACGCTACAAGTT
 TGACTTCCACGGGATTGCCAGGCCCTGCAGCCCCACCCTCCTGAGTCGTCCCTGTACAAGTACCCCTCC
 GACCTGCCATACATGGGCTCCTATCACGCCACCCCCAGAAGATGAACCTTGTGTCTCCCCACCCTCCC
 CTCTCCAGTCACATCTTCCAGTTTCTTTGCTTCCCCGAACCCATACTGGAATTCACCGACTGGGGGCAT
 CTACCCGAACACTAGGCTCCAGCCAGCCATATGCCCTCTCACCTGGGCACCTACTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR225536 protein sequence
 Red=Cloning site Green=Tags(s)

MIQTVDPAAHIKEALSVVSEDQSLFECAYGTPHLAKTEMTASSSSDYGQTSKMSRPVPPQDWSQAPAR
 VTIKMECNPSQVNGSRNSPDECSVNKGGKMGVSPDVGMSYGSYMEEKHVPPNMTNERRVIVPADPTL
 WSTDHVRQWLEWAVKEYGLLDVDVLLFQNIIDGKELCKMTKDDFQRLTPSYNADILLSHLHYLRETPHPL
 TSDDVDKALQNSPRLMHARNTGGAAFIFPNTSVYPEATQRITTRPDLPEPPRRSAWTGSHLTPQSKAA
 QPSPSAVPKTEDQRPQLDPYQILGPTSSRLANPGSQIQLWQFLLELLSDSSNSNCITWEGTNGEFKMTD
 PDEVARRWGERKSKPNMNYDKLSRALRYYYDKNIMTKVHGKRYAYKFDHFGIAQALQPHPPPESSLYKYP
 SLDLPMGSHYHHPQKMNFSVPHPPALPVTSSSFFASPNPYWNSPTGGIYPNTRLPASHMPSHGLTY

TRTRPLEQ**KL**I**SEEDLA**NDILDYK**DDDDK**V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_133659

ORF Size: 1461 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_133659.3](#), [NP_598420.1](#)
RefSeq Size: 3259 bp

RefSeq ORF: 1461 bp

Locus ID: 13876

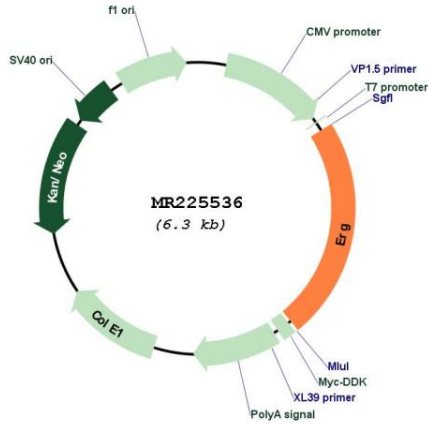
UniProt ID: [P81270](#)

Cytogenetics: 16 56.04 cM

MW: 54.6 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]

Product images:



Circular map for MR225536