

Product datasheet for **MG225536**

Erg (NM_133659) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Erg (NM_133659) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Erg
Synonyms:	D030036I24Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG225536 representing NM_133659
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATCCAGACTGTACCTGACCCAGCAGCTCATATTAAGGAGGCCTTGTGAGTTGTGAGCGAGGACCAGT
 CACTATTTGAGTGTGCCTACGGAACGCCACACCTGGCTAAGACAGAGATGACCGCATCCTCTCCAGTGA
 CTATGGCCAGACATCCAAGATGAGTCCCAGAGTCCCTCAGCAGGACTGGCTGTCTCAAGCCCCAGCCAGG
 GTCACCATCAAGATGGAGTGCAACCCTAGTCAGGTGAATGGTTCCAGGAACTCACCTGATGAGTGCAGTG
 TGAACAAAGGTGGGAAGATGGTGGGCAGCCGGATACTGTGGGGATGAGCTACGGCAGCTACATGGAGGA
 GAAGCATGTGCCCTCCAATATGACCACAAATGAGCGCAGAGTGATCGTCCCTGCAGATCCTACTCTG
 TGGAGCACAGACCATGTCCGACAGTGGCTGGAGTGGGCGGTGAAAGAATATGGCCTCCTCGATGTGGACG
 TCTTACTATTTTCAAGATATCGATGGGAAGGAGCTGTGCAAGATGACAAAGGATGACTTCCAGCGGCTCAC
 GCCGAGCTACAATGCCGACATTCTCTCTCACATCTCCACTACCTCAGAGAGACTCCCCTCCACATCTG
 ACTTCCGATGACGTTGATAAGGCTTTACAAAACCTCCACGGTTAATGCATGCCAGAAACACAGGGGGTG
 CAGCTTTTATTTCCCAATACTTCAGTATATCCCGAAGCTACGCAAAGAATTACAACACTAGGCCAGATTT
 ACCTTATGAGCCTCCCAGGAGATCAGCCTGGACCGGCCACAGCCACCTCACCCCTCAGTCCAAAGCTGCT
 CAGCCATCTCCCTCTGCAGTGCCAAAACCTGAAGACCAGCGTCTCAGTTAGATCCTTACCAGATCCTGG
 GACCGACCACTAGCCGCTTGTCTAATCCAGGTAGTGGCCAGATCCAGCTGTGGCAGTTCTGTCTCGAACT
 CCTGTGACAGCTCCAACCTCCAACCTGCATCACCTGGGAAGGCACCAACGGGGAGTTCAAGATGACAGAC
 CCGGACGAGGTGGCTCGGCGCTGGGGGAGAGGAAGAGCAAGCCCAACATGAACATGACAAGCTCAGCC
 GCGCCCTCCGCTACTACTACGACAAAAACATCATGACCAAGGTGCACGGGAAGCGCTACGCTACAAGTT
 TGACTTCCACGGGATTGCCAGGCCCTGCAGCCCAACCTCCTGAGTCGTCCCTGTACAAGTACCCCTCC
 GACCTGCCATACATGGGCTCCTATCACGCCACCCCAAGATGAACCTTGTGTCTCCCCACCCTCCC
 CTCTCCAGTCACATCTTCCAGTTTCTTTGCTTCCCCGAACCCATACTGGAATTCACCGACTGGGGGCAT
 CTACCCGAACACTAGGCTCCAGCCAGCCATATGCCCTCTCACCTGGGCACCTACTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG225536 representing NM_133659
 Red=Cloning site Green=Tags(s)

MIQTVDPAAHIKEALSVVSEDQSLFECAYGTPHLAKTEMTASSSSDYGQTSKMSRPVPPQDWSQAPAR
 VTIKMECNPSQVNGSRNSPDECSVNKGGKMGVSPDVTGMSYGSYMEEKHVPPNMTTNERRVIVPADPTL
 WSTDHVRQWLEWAVKEYGLLDVDVLLFQNIIDGKELCKMTKDDFQRLTPSYNADILLSHLHYLRETPPLPHL
 TSDDVDKALQNSPRLMHARNTGGAAFIFPNTSVYPEATQRITTRPDLPEYPPRRSAWTGSHLTPQSKAA
 QPSPSAVPKTEDQRPQLDPYQILGPTSSRLANPGSGQIQLWQFLLELLSDSSNSNCITWEGTNGEFKMTD
 PDEVARRWGERKSKPNMNYDKLSRALRYYYDKNIMTKVHGKRYAYKDFDHGIAQALQPHPPESLYKYPS
 DLPYMGSYHAHPQKMNFSVPHPPALPVTSSSFFASPNPYWNSPTGGIYPNTRLPASHMPSHLGTY

TRTRPLE - GFP Tag - V

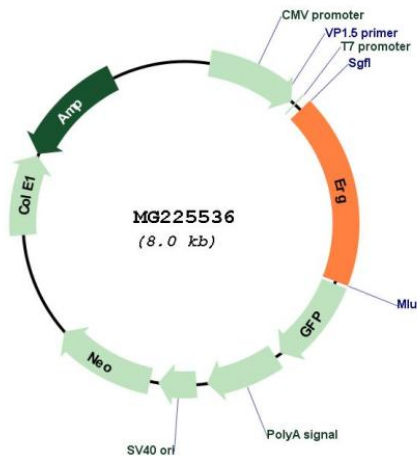
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_133659

ORF Size: 1458 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: 2214 bp

RefSeq ORF: 1461 bp

Locus ID: 13876

UniProt ID: [P81270](#)

Cytogenetics: 16 56.04 cM

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]