

Product datasheet for **MR204268**

Erfe (NM_173395) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Erfe (NM_173395) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Erfe
Synonyms:	4832406C22; Fam132b; myonectin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204268 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGCCTCGACCCGCGCCCGCTCGGAGCTCGCACGCTGCTCGCCTGCGCCAGCCTACTCGCCGCCATGG
 GCCTCGGTGTCCCTGAGTCCGCGGAGCCCGTGGGACTCATGCACGCCCGCAGCCGCCCGGGCCGAGCT
 GCGCGCCCGCCAGCCAACAGCCCGCCGGAACCCACCATTGCGCATGCACACAGTGTGGATCCCCGGGAT
 GCTTGGATGCTGTTCTGCAAGCAGAGTGACAAGGGGATCAACAGTAAGAGGAGGAGCAAAGCCAGGAGGC
 TGAAGCTTGGCCTGCCAGGACCCCGAGGCCACCAGGTCTCAGGGCCCCCAGGCCCTTTATCCCATC
 TGAGGTTCTGCTGAAGGAGTTCCAGCTGTTGCTGAAAGGCGCAGTACGGCAGCGAGAGGCCATCTGGAG
 CACTGCACCAGGGATCTCACTACACCAGCCTCGGGTAGCCCTTCCCGTGTCCAGCCGCCAGGAGCTTG
 ATAGCCAGGACCCAGGGCATTGTTAGCTCTGCTGGCTGCGACCTTGGCCAGGGCCCGCGGGCACCACG
 TGTGGAGGCCGATTCCACTGTCGCTTGCGCCGGGATGTGCAGGTGGATCGGCGTGCCTTGACAGAGCTT
 GGGATCTACTACCTGCCGAAGTTGAGGGAGCCTTCCACCGGGGCCAGGCTTGAATCTGACCAGCGGCC
 AGTACACCGCACCTGTGGCTGGCTTCTATGCGCTTGCTGCCACTCTGCAGTGGCACTCACCGAGCAGCC
 AAGAAAGGGACCAACACGACCCCGGGATCGTCTGCGCTGCTGATCTGCATCCAGTCTCTCTGCCAGCAC
 AATGCCTCCCTGGAGACTGTGATGGGGCTGGAGAACAGCAGCAGCTCTTACCATCTCAGTAAATGGTG
 TCCTCTATCTACAGGCAGGACACTACACTTCTGTCTTCTTGGACAATGCCAGCGGCTCCTCCCTCACGGT
 ACGCAGTGGCTCTCACTTCAGTGTATCTCTCTGGGCCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >MR204268 protein sequence
 Red=Cloning site Green=Tags(s)

MASTRPVGARTLLACASLLAAMGLGPESAEPVGTHARPQPPGAELPAPPANSPPEPTIAHAHSVDP
 AWMLFVKQSDKGINSKRKARRLKLGLPGPPGPPGPPGPFIPSEVLLKEFQLLLKGAVRQRESHLE
 HCTRDLTPASGSPSRVPAQELDSQDPGALLALLAATLAQGPRAPRVEAAFHCLRRDVQVDRRALHEL
 GIYYLPEVEGAFHRGPGNLNLTSGQYTAPVAGFYALAATLHVALTEQPRKGPTPRDRLRLLLICIQLCQH
 NASLETVMGLENSSELTISVNGVLYLQAGHYTSVFLDNASGSSLTVRSGSHFSAILLGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_173395

ORF Size: 1020 bp

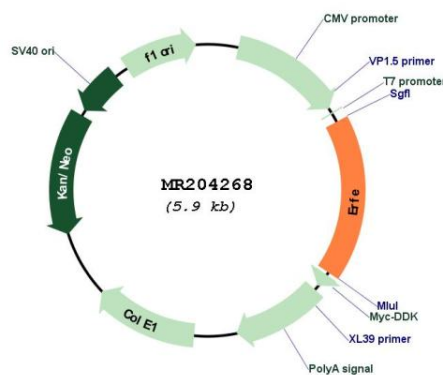
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_173395.2, NP_775571.2</u>
RefSeq Size:	2835 bp
RefSeq ORF:	1023 bp
Locus ID:	227358
UniProt ID:	<u>Q6PGN1</u>
Cytogenetics:	1 D
MW:	36.3 kDa
Gene Summary:	Iron-regulatory hormone that acts as an erythroid regulator after hemorrhage: produced by erythroblasts following blood loss and mediates suppression of hepcidin (HAMP) expression in the liver, thereby promoting increased iron absorption and mobilization from stores (PubMed:24880340). Promotes lipid uptake into adipocytes and hepatocytes via transcriptional up-regulation of genes involved in fatty acid uptake (PubMed:22351773). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204268