

## Recombinant Mouse ERF E Protein (25-340 aa), His-tagged

**Cat. No.** ERF E-1680M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Mouse ERF E Protein (25-340 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Protein Description: Full Length of Mature Protein.                                                                                                                                                                                                                            |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | Yeast                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>    | 25-340 aa                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | 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 |
| <b>Form</b>             | Tris-based buffer, 50% glycerol                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Molecular Mass</b>   | 35.9 kDa                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>AA Sequence</b>      | LGVPESAEPVGTHARPQPPGAELPAPPANSPEPTIAHAHSVDPRDAWMLFVKQSD<br>KGINSKRRSKARRLKLGLPGPPGPPGPQGPPGPFIPSEVLLKEFQLLLKGAVRQRES<br>HLEHCTRDLTTPASGSPSRVPAQELDSQDPGALLALLAATLAQGPRAPRVEAAFH<br>CRLRRDVQVDRRALHELGIYYLPEVEGAFHRGPGLNLTSGQYTAPVAGFYALAATL                                                                                                                                                                                  |

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|                      |                                                                                                                                                                                                                                                                                                                     |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | HVALTEQPRKGPTRPRDRLRLLCIQSLCQHNASLETVMGLENSSELF TISVNGVLYL<br>QAGHYTSVFLDNASGSSLTVRSGSHFSAILLGL                                                                                                                                                                                                                     |
| <b>Purity</b>        | > 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                    |
| <b>Notes</b>         | Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.                                                                                                                                                                                                        |
| <b>Storage</b>       | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade. |
| <b>Concentration</b> | A hardcopy of COA with reconstitution instruction is sent along with the products.                                                                                                                                                                                                                                  |

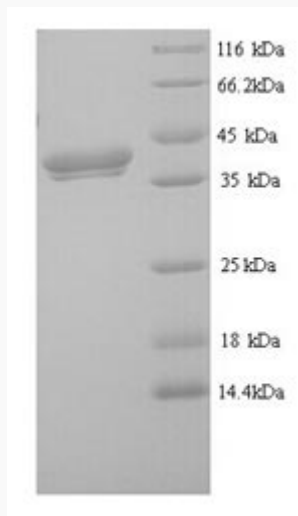
## GENE INFORMATION

|                        |                                                           |
|------------------------|-----------------------------------------------------------|
| <b>Gene Name</b>       | Erfe erythroferrone [ <i>Mus musculus</i> (house mouse) ] |
| <b>Official Symbol</b> | ERFE                                                      |
| <b>Synonyms</b>        | Fam132b; myonectin; 4832406C22;                           |
| <b>Gene ID</b>         | 227358                                                    |
| <b>mRNA Refseq</b>     | NM_173395                                                 |
| <b>Protein Refseq</b>  | NP_775571                                                 |
| <b>UniProt ID</b>      | Q6PGN1                                                    |

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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