

## Recombinant Full Length Human ERG Protein, GST-tagged

**Cat. No.** ERG-4579HF    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human ERG full-length ORF ( AAH40168, 1 a.a. - 479 a.a.) recombinant protein with GST-tag at N-terminal. |
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| <b>Species</b> | Human |
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|               |                           |
|---------------|---------------------------|
| <b>Source</b> | In Vitro Cell Free System |
|---------------|---------------------------|

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|----------------------|-----------------|
| <b>ProteinLength</b> | 479 amino acids |
|----------------------|-----------------|

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| <b>Description</b> | <p>This gene encodes a member of the erythroblast transformation-specific (ETS) family of transcriptions factors. All members of this family are key regulators of embryonic development, cell proliferation, differentiation, angiogenesis, inflammation, and apoptosis. The protein encoded by this gene is mainly expressed in the nucleus. It contains an ETS DNA-binding domain and a PNT (pointed) domain which is implicated in the self-association of chimeric oncoproteins. This protein is required for platelet adhesion to the subendothelium, inducing vascular cell remodeling. It also regulates hematopoiesis, and the differentiation and maturation of megakaryocytic cells. This gene is involved in chromosomal translocations, resulting in different fusion gene products, such as TMPSSR2-ERG and NDRG1-ERG in prostate cancer, EWS-ERG in Ewing's sarcoma and FUS-ERG in acute myeloid leukemia. More than two dozens of transcript variants generated from combinatorial usage of three alternative promoters and multiple alternative splicing events have been reported, but the full-length nature of many of these variants has not been determined. [provided by RefSeq, Apr 2014]</p> |
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|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Molecular Mass</b>   | 78.43 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>AA Sequence</b>      | MASTIKEALSVVSEDQSLFECAYGTPHLAKTEMTASSSSDYGQTSKMSPRPVQQD<br>WLSQPPARVTIKMECNPSQVNGSRNSPDECSVAKGGKMGVSPDTVGMNYGSYME<br>EKHMPPPNMTTNERRVIVPADPTLWSTDHVRQWLEWAVKEYGLPDVNILLFQNIDG<br>KELCKMTKDDFQRLTPSYNADILLSHLHYLRETPLPHLTSDDVDKALQNSPRLMHAR<br>NTGGAAFIFPNTSVYPEATQRITTRPDLPEPPRRSAWTGHGHPTPQSKAAQSPSPS<br>TVPKTEDQRPQLDPYQILGPTSSRLANPGSGQIQLWQFLLELLSDSSNSSCITWEGT<br>NGEFKMTDPDEVARRWGERKSKPNMNYDKLSRALRYYYDKNIMTKVHGKRYAYKF<br>DFHGIAQALQPHPESSLYKYPSPDLPYMGSYHAHPQKMNFVAPHPPALPVTSSSFF<br>AAPNPYWNSPTGGIYPNTRLPTSHMPSHLGTTY |
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay<br>Western Blot (Recombinant protein)<br>Antibody Production<br>Protein Array                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Notes</b>            | Best use within three months from the date of receipt of this protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Storage</b>          | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Storage Buffer</b>   | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Gene Name</b>        | ERG v-ets erythroblastosis virus E26 oncogene homolog (avian) [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Official Symbol</b>  | ERG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Synonyms</b>         | ERG; v-ets erythroblastosis virus E26 oncogene homolog (avian); v ets avian erythroblastosis virus E26 oncogene related , v ets erythroblastosis virus E26                                                                                                                                                                                                                                                                                                                                                                      |

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oncogene like (avian); transcriptional regulator ERG; erg 3; p55; TMPRSS2 ERG prostate cancer specific; transcriptional regulator ERG (transforming protein ERG); v ets avian erythroblastosis virus E26 oncogene related; v ets erythroblastosis virus E26 oncogene like; ets-related; TMPRSS2/ERG fusion; v-ets erythroblastosis virus E26 oncogene like; v-ets avian erythroblastosis virus E26 oncogene related; erg-3;

**Gene ID** [2078](#)

**mRNA Refseq** [NM\\_001136154](#)

**Protein Refseq** [NP\\_001129626](#)

**MIM** [165080](#)

**UniProt ID** [P11308](#)

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