

Product datasheet for **TP318892L**

ERG (NM_004449) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human v-ets erythroblastosis virus E26 oncogene homolog (ERG), transcript variant 2, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>Peptide sequence encoded by RC218892 Blue=ORF Red=Cloning site Green=Tag(s)

MIQTVPDPAAHIKEALSVSEdqSLFECAYGTPHLAKTEMTASSSSDYGQTSKMSPRVPQQDWLSQPPA
RVTIKMECNPSQVNGSRNSPDECSVAKGGKMGVSPDTVGMNYGSYMEEKHMPPPNMTTNERRIVPADP
TLWSTDHVRQWLEWAVKEYGLPDVNILLFQNIIDGKELCKMTKDDFQRLTPSYNADILLSHLHLRETP
PHLTSDDVDKALQNSPRLMHARNTDLPYEPRRSAWTGHGHPTPQSKAAQSPSTVPKTEDQRPQLDPY
QILGPTSSRLANPGSGQQLWQFLLELLSDSSNSSCITWEGTNGEFKMTDPDEVARRWGERKSKPNMNY
DKLSRALRYYYDKNIMTKVHGKRYAYKFDHFGIAQALQPHPPESLYKYPSPDLPYMGSYHAHPQKMN
FV
APHPPALPVTSSSFFAAPNPYWNSPTGGIYPNTRLPTSHMPSHLGTY
Y
SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Recombinant protein using RC218892 also available, [TP318892](#)

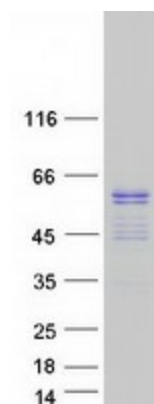
Tag:	C-Myc/DDK
Predicted MW:	51.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_004440
Locus ID:	2078
UniProt ID:	P11308 , B4DN83
RefSeq Size:	3097
Cytogenetics:	21q22.2
RefSeq ORF:	1386
Synonyms:	erg-3; p55
Summary:	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]
Protein Families:	Druggable Genome, Transcription Factors

Product images:



Coomassie blue staining of purified ERG protein (Cat# [TP318892]). The protein was produced from HEK293T cells transfected with ERG cDNA clone (Cat# [RC218892]) using MegaTran 2.0 (Cat# [TT210002]).