

Product datasheet for PH318892

ERG (NM_004449) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ERG MS Standard C13 and N15-labeled recombinant protein (NP_004440)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC218892
Predicted MW:	52 kDa
Protein Sequence:	>Peptide sequence encoded by RC218892 Blue=ORF Red=Cloning site Green=Tag(s)
	MIQTVDPAAHIKEALSVMSEDQSLFECAYGTPHLAKTEMTASSSSDYGQTSKMSPRVPQQDWLSQPPA RVTIKMECNPSQVNGSRNSPDECSVAKGGKMGVSPDTVGMNYGSYMEEKHMPPNMTTNERRVIVPADP TLWSTDHVRQWLEWAVKEYGLPDVNIILFQNIIDGKELCKMTKDDFQRLTPSYNADILLSHLHYLRETPL PHLTSDDVDKALQNSPRLMHARNTDLPYEPNRRSAWTGHGHPTPQSKAAQSPSTVPKTEDQRPQLDPY QILGPTSSRLANPGSGQIQWQFLLELLSDSSNSSCITWEGTNGEFKMTDPDEVARRWGERKSKPNMNY DKLSRALRYYYDKNIMTKVHGKRYAYKFDHFGIAQALQPHPPSSLYKYPDLPYMGSYHAHPQKMNFF APHPALPVTSSSFFAAPNPYWNSPTGGIYPNTRLPTSHMPSHLGTYY SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV
	Recombinant protein using RC218892 also available, TP318892
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_004440
RefSeq Size:	3097
RefSeq ORF:	1386



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Synonyms: erg-3; p55

Locus ID: 2078

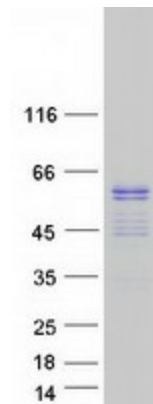
UniProt ID: [P11308](#), [B4DN83](#)

Cytogenetics: 21q22.2

Summary: This gene encodes a member of the erythroblast transformation-specific (ETS) family of transcription 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]).