

Product datasheet for TL313172V

OriGene Technologies, Inc.

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ERG Human shRNA Lentiviral Particle (Locus ID 2078)

Product data:

Product Type: shRNA Lentiviral Particles

Product Name: ERG Human shRNA Lentiviral Particle (Locus ID 2078)

Locus ID: 2078

Synonyms: erg-3; p55

Vector: pGFP-C-shLenti (TR30023)

Format: Lentiviral particles

Components: ERG - Human shRNA lentiviral particles (4 unique 29mer target-specific shRNA, 1 scramble

control), 0.5 ml each, >10^7 TU/ml.

RefSeq: <u>NM 001136154, NM 001136155, NM 001243428, NM 001243429, NM 001243432,</u>

NM 001291391, NM 004449, NM 182918, NR 111949, NM 001331025, NM 182918.1, NM 182918.2, NM 182918.3, NM 004449.1, NM 004449.2, NM 004449.3, NM 004449.4, NM 001136154.1, NM 001136155.1, NM 001243432.1, NM 001243432.2, NM 001243429.1,

NM 001243428.1, NM 001291391.1, BC040168, BC040168.1, NM 001243433

UniProt ID: P11308

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 hematopoesis, 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]







shRNA Design:

Performance Guaranteed: These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact techsupport@origene.com. If you need a special design or shRNA sequence, please utilize our custom shRNA service.

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).