

## Product datasheet for SC335345

### ERG (NM\_001291391) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ERG (NM_001291391) Human Untagged Clone
Tag:	Tag Free
Symbol:	ERG
Synonyms:	erg-3; p55
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335345 representing NM_001291391. Blue=Insert sequence Red=Cloning site Green=Tag(s)

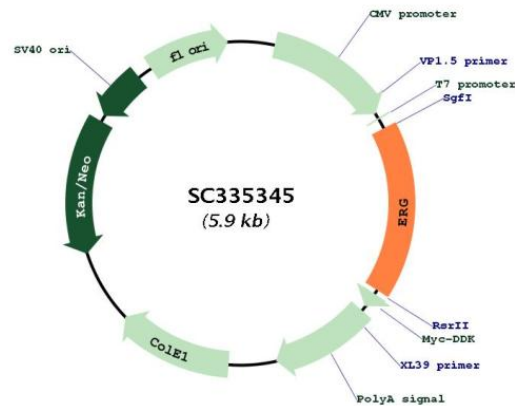
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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGATTACAGACTGTCCCGGACCCAGCAGCTCATATCAAGGAAGCCTTATCAGTTGTGAGTGAGGACCAG
TCGTTGTTTGTGAGTGTGCCTACGGAACGCCACACCTGGCTAAGACAGAGATGACCGCGTCTCCTCCAGC
GACTATGGACAGACTTCCAAGATGAGCCCACGCGTCCCTCAGCAGGATTGGCTGTCTCAACCCCCAGCC
AGGGTCACCATCAAATGGAATGTAACCCTAGCCAGGTGAATGGCTCAAGGAACTCTCCTGATGAATGC
AGTGTGGCCAAAGGCGGGAAGATGGTGGCAGCCAGACACCGTTGGGATGAACTACGGCAGCTACATG
GAGGAGAAGCACATGCCACCCCAACATGACCACGAACGAGCGCAGAGTTATCGTGCCAGCAGATCCT
ACGCTATGGAGTACAGACCATGTGCGGCAGTGGCTGGAGTGGGCGGTGAAAGAATATGGCCTTCCAGAC
GTCAACATCTTGTATTCCAGAACATCGATGGGAAGGAACTGTGCAAGATGACCAAGGACGACTTCCAG
AGGCTCACCCCCAGCTACAACGCCGACATCCTTCTCTCACATCTCCACTACCTCAGAGAGACTCCTCTT
CCACATTTGACTTCAGATGATGTTGATAAAGCCTTACAAAACCTCTCCACGGTTAATGCATGCTAGAAAC
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AGGCCAGGTACGAAAACACCCCTGTGTGATCTCTTCATTGAGAGACATCCAGATGTCTCTGCTGAGATC
CGTGCCCTAAGTACGTGATACAAAGAGAGCTGATCCCGAGCTGAAGCCAGTCCCAGACAGTCTTATT
CTGCCTCTGTTGATTTGGAGACTAAATCCAACCAACCATTTCATTCAAAGACCACACTAAAGGAATTA
AGAGCAGATTAG
AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGAT
ATCCTGGATTACAAGGATGACGACGATAAGGTTTAA
```

Restriction Sites: SgfI-RsrII



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## Plasmid Map:



ACCN: NM\_001291391

Insert Size: 978 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM\\_001291391.1](#)

RefSeq Size: 1546 bp

RefSeq ORF: 978 bp

Locus ID: 2078

UniProt ID: [P11308](#)

Cytogenetics: 21q22.2

<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>MW:</b>	36.5 kDa
<b>Gene Summary:</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> <p>Transcript Variant: This variant (8) ) lacks several exons and its transcription extends past a splice site that is used in variant 3, resulting in a novel 3' coding region and 3' UTR compared to variant 3. The resulting protein (isoform 7) has a shorter and distinct C-terminus, compared to isoform 3.</p>