

Product datasheet for **SC108516**

ERG (NM_182918) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ERG (NM_182918) Human Untagged Clone
Tag:	Tag Free
Symbol:	ERG
Synonyms:	erg-3; p55
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC108516 sequence for NM_182918 edited (data generated by NextGen Sequencing)

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ATGGCCAGCACTATTAAGGAAGCCTTATCAGTTGTGAGTGAGGACCAGTCGTTGTTTGGAG
TGTGCCTACGGAACGCCACACCTGGCTAAGACAGAGATGACCGCGTCCTCCTCCAGCGAC
TATGGACAGACTTCCAAGATGAGCCACGCGTCCCTCAGCAGGATTGGCTGTCTCAACCC
CCAGCCAGGGTCACCATCAAAATGGAATGTAACCCTAGCCAGGTGAATGGCTCAAGGAAC
TCTCCTGATGAATGCAGTGTGGCCAAAGCGGGAAGATGGTGGGCAGCCAGACACCGTT
GGGATGAACTACGGCAGCTACATGGAGGAGAAGCACATGCCACCCCAAACATGACCACG
AACGAGCGCAGAGTTATCGTGCCAGCAGATCCTACGCTATGGAGTACAGACCATGTGCGG
CAGTGGCTGGAGTGGGCGGTGAAAGAATATGGCCTTCCAGACGTCAACATCTTGTATTTC
CAGAACATCGATGGGAAGGAAGTGTGCAAGATGACCAAGGACGACTTCCAGAGGCTCACC
CCCAGCTACAACGCCGACATCCTTCTCTCACATCTCCACTACCTCAGAGAGACTCCTCTT
CCACATTTGACTTCAGATGATGTTGATAAAGCCTTACAAAACCTCCACGGTTAATGCAT
GCTAGAAAACACAGGGGTGCAGCTTTTATTTTCCCAAATACTTCAGTATATCCTGAAGCT
ACGCAAAGAATTACAACAGGCCAGATTTACCATATGAGCCCCCAGGAGATCAGCCTGG
ACCGGTACAGGCCACCCACGCCCAGTCGAAAGCTGCTCAACCATCTCCTTCCACAGTG
CCCAAAACTGAAGACCAGCGTCCCTCAGTTAGATCCTTATCAGATTCTTGGACCAACAAGT
AGCCGCTTGC AAATCCAGGCAGTGGCCAGATCCAGCTTTGGCAGTTCCTCCTGGAGCTC
CTGTGGACAGCTCCAACCTCCAGCTGCATCACCTGGGAAGGCACCAACGGGGAGTTCAAG
ATGACGGATCCCAGCAGGTTGGCCCGCGCTGGGGAGAGCGGAAGAGCAAACCAACATG
AACTACGATAAGCTCAGCCGCGCCTCCGTTACTACTATGACAAGAACATCATGACCAAG
GTCCATGGGAAGCGCTACGCCTACAAGTTCGACTTCCACGGGATCGCCAGGCCCTCCAG
CCCCACCCCGGAGTCACTCTGTACAAGTACCCCTCAGACCTCCCGTACATGGGCTCC
TATCACGCCCAACCACAGAAGATGAACTTTGTGGCGCCCCACCCTCCAGCCCTCCCGTG
ACATCTTCCAGTTTTTTTTGCTGCCCAAACCCATACTGGAATTCACCAACTGGGGGTATA
TACCCCAACTAGGCTCCCAACAGCCATATGCCTTCTCATCTGGGCACTTACTACTAA

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Clone variation with respect to NM_182918.3

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_182918 unedited
TTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCAGCAGGAATTATTATTAACA
TTTATTAACGATCAATAAACTTGATTGCATTATGGCCAGCACTATTAAGGAAGCCTTATC
AGTTGTGAGTGAGGACCAGTCGTTGTTTGTGAGTGTGCTACGGAACGCCACACCTGGCTAA
GACAGAGATGACCGCGTCCCTCCTCCAGCGACTATGGACAGACTTCCAAGATGAGCCACG
CGTCCCTCAGCAGGATTGGCTGTCTCAACCCCAAGCCAGGGTCACCATCAAAATGGAATG
TAACCTAGCCAGGTGAATGGCTCAAGGAACCTCCTGATGAATGCAGTGTGGCCAAAGG
CGGGAAGATGGTGGGCAGCCAGACACCGTTGGGATGAACTACGGCAGCTACATGGAGGA
GAAGCACATGCCACCCCAAACATGACCACGAACGAGCGCAGAGTTATCGTGCCAGCAGA
TCTACGCTATGGAGTACAGACCATGTGCGGCAGTGGCTGGAGTGGGCGGTGAAAGAATA
TGGCCTTCCAGACGTCAACATCTTGTATTCCAGAACATCGATGGGAAGGAACTGTGCAA
GATGACCAAGGACGACTTCCAGAGGCTCACCCNCAGCTACAACGCCGACATCCTTCTCTC
ACATCTCCACTACCTCAGAGAGACTCCTTCCACATTTGACTTCAGATGATGGTTGATA
AGCCTTACAAAACCTCCACGGTTAATGCATGCTAGAAAACACAGGGGGGGCAGCTTTTAT
TTTCCCAATACTTAGTATATCCTGGAGCTACGCAAGAATACAACAGGCCAGATTTACAT
ATGAGCCCCCAGAAGACAGCCTGGACCGGTACGGCCACCCACGCCCAGTCGAN

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Restriction Sites: NotI-NotI

ACCN: NM_182918

Insert Size: 3000 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:	<ol style="list-style-type: none">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_182918.2 , NP_891548.1
RefSeq Size:	3055 bp
RefSeq ORF:	1440 bp
Locus ID:	2078
UniProt ID:	P11308
Cytogenetics:	21q22.2
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	<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 (1) contains a different segment for its 5' UTR and 5' coding region, compared to variant 3. The resulting protein (isoform 1) has a shorter and distinct N-terminus when it is compared to isoform 3. Sequence Note: The RefSeq transcript and protein were derived from transcript and genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>