

Product datasheet for SC122605

Amphiregulin (AREG) (NM_001657) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Amphiregulin (AREG) (NM_001657) Human Untagged Clone
Tag:	Tag Free
Symbol:	Amphiregulin
Synonyms:	AR; AREGB; CRDGF; SDGF
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001657 edited
GGGGAGACGTTTCGCACACCTGGGTGCCAGCGCCCCAGAGGTCCTCCGGGACAGCCCCGAGGCC
CCGCGCCCGCCGCCCCGAGCTCCCCAAGCCTTCGAGAGCGCGCACACTCCCGGTCTCCA
CTCGCTCTTCCAACACCGCTCGTTTTGGCGGCAGCTCGTGTCCAGAGACCGAGTTGCC
CCAGAGACCGAGACGCCCGCTGCGAAGGACCAATGAGAGCCCCGCTGTACTCCCGCGGC
GCCGGTGGTGTGCTCGCTCTTGATACTCGGCTCAGGCCATTATGCTGCTGGATTGGACCT
CAATGACACCTACTCTGGGAAGCGTGAACCATTTCTGGGGACCACAGTGTGATGGATT
TGAGGTTACCTCAAGAAGTGAGATGTCTTCAGGGAGTGAGATTTCCCTGTGAGTGAAT
GCCTTCTAGTAGTGAACCGTCTCGGGAGCCGACTATGACTACTCAGAAGAGTATGATAA
CGAACCACAAATACCTGGCTATATTGTCGATGATTCAGTCAGAGTTGAACAGGTAGTTAA
GCCCCCCAAAACAAGACGGAAAGTGAAAATACTTCAGATAAACCCAAAAGAAAGAAAAA
GGGAGGCAAAAATGGAAAAATAGAAGAAACAGAAAGAAGAAAAATCCATGTAATGCAGA
ATTTCAAATTTCTGCATTCACGGAGAATGCAAAATATATAGAGCACCTGGAAGCAGTAAC
ATGCAAAATGTCAGCAAGAATATTTCCGGTGAACGGTGTGGGGAAAAGTCCATGAAACTCA
CAGCATGATTGACAGTAGTTTATCAAAAATTGCATTAGCAGCCATAGCTGCCTTTATGTC
TGCTGTGATCCTCACAGCTGTTGCTGTTATTACAGTCCAGCTTAGAAGACAATACGTCAG
GAAATATGAAGGAGAAGCTGAGGAACGAAAGAACTTCGACAAGAGAATGGAAATGTACA
TGCTATAGCATAACTGAAGATAAAAATTACAGGATATCACATTGGAGTCACTGCCAAGTCA
TAGCCATAAATGATGAGTCGGTCTCTTCCAGTGGATCATAAGACAATGGACCTTTTTT
GTTATGATGGTTTTAAACTTTCAATTGTCACTTTTTATGCTATTTCTGTATATAAAGGTG
CACGAAGTAAAAAGTATTTTTCAAGTTGTAATAATTTATTTAATTTAATGGAAGT
GTATTTATTTTACAGCTCATAAACTTTTTTAACCAAACAGATCAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_001657 unedited CCGCAAGTTCGGGATTTGNTATACGACTTCACTATAGGGCGGCGCGATTTCGGCCATTA CGGCCGGGGAGACGTTTCGCACACCTGGGTGCCAGCGCCCCAGAGTCCCAGGACAGCCGA GGGCCCGCGCCCGCCCGCCGAGCTCCCCAAGCCTTCGAGAGCGGCGCACACTCCCGGTC TCCACTCGCTCTTCCAACACCCGCTCGTTTTGGCGGCAGCTCGTGTCCCAGAGACCGAGT TGCCCCAGAGACCGAGACGCCCGCTGCGAAGGACCAATGAGAGCCCCGCTGCTACCGC CGGCGCCGGTGGTGTGCTGCTCTTGATACTCGGCTCAGGCCATTATGCTGCTGGATTGG ACCTCAATGACACCTACTCTGGGAAGCGTGAACATTTTCTGGGACCACAGTGCTGATG GATTTGAGGTTACCTCAAGAAGTGAGATGTCTTACGGGAGTGAGATTTCCCTGTGAATG AAATGCCTTCTAGTAGTGAACCGTCTCGGGAGCCGACTATGACTACTCAGAAAAGTATG ATAACGAACCACAAATACCTGGCTATATTGGACATGATTCAGTCATAATTGAACAGGTTG TTAAGCCCCCCCCAAAACAAGGCCGGGAGGTGAAAATACTTCAGATAAACCCAAACAAAAG AAAAGGGGGGCAATATGGCGCAAATGGCGAAACCGTAGGAAGAAAAATCCCTGGAGG GCGGAAATGAAGATTTCTGGCTTCCCGGGGAATGCCAATATTTTGGGCCCGGGGAGAG GGACCTTGCCGAGTGGGGCAGAAAAATTCGGGGAGCGGGGTGGGAAAAGTCCCACAGA ACTCCAACCAGGTTGGACGGTGTGGACCAGAAATGGTTGAGCGAGCCTAGGCTGCCTT GAGGGCGCN
Restriction Sites:	Please inquire
ACCN:	NM_001657
Insert Size:	1300 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_001657.2 , NP_001648.1
RefSeq Size:	1270 bp
RefSeq ORF:	759 bp
Locus ID:	374
UniProt ID:	P15514
Cytogenetics:	4q13.3
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	ErbB signaling pathway

Gene Summary:

The protein encoded by this gene is a member of the epidermal growth factor family. It is an autocrine growth factor as well as a mitogen for astrocytes, Schwann cells and fibroblasts. It is related to epidermal growth factor (EGF) and transforming growth factor alpha (TGF-alpha). The protein interacts with the EGF/TGF-alpha receptor to promote the growth of normal epithelial cells, and it inhibits the growth of certain aggressive carcinoma cell lines. It also functions in mammary gland, oocyte and bone tissue development. This gene is associated with a psoriasis-like skin phenotype, and is also associated with other pathological disorders, including various types of cancers and inflammatory conditions. [provided by RefSeq, Apr 2014]