

Product datasheet for **SC127840**

EGF (NM_001963) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EGF (NM_001963) Human Untagged Clone
Tag:	Tag Free
Symbol:	EGF
Synonyms:	HOMG4; URG
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127840 sequence for NM_001963 edited (data generated by NextGen Sequencing)

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ATGCTGCTCACTCTTATCATTCTGTTGCCAGTAGTTTCAAATTTAGTTTTGTTAGTCTC
TCAGCACCGCAGCACTGGAGCTGCTCCTGAAGGTAAGTCTCGCAGGAAATGGGAATTCTACT
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ACAGACTATGGAAGCTGCTCAGCCAGCAGATGGGAATGGTTTATGCCCTAGATCATGAC
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 AAGCCCCATTCTCCTATCAGCTAACCATTATGGCAACAAAGGGCCCTGGACCCACCA
 CACCAATGGAGCTGACTCAGTGA

Clone variation with respect to NM_001963.4
 1292 g=>a;2124 g=>a;2351 a=>t;2759 a=>t

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001963 unedited
 TTCTGACGAATCGCCTACGCCGNCGTCGAGGGNCGGTTGGAGTGCACGGTGGGAGGTC
 TATATAAGCTGAGCTCGTTTGTAGTGAACCGTCAGAAATTTTGAATACGACTCACTATAGGG
 CGGCCGGAATTCGGCAGCAGAGGAATCGTATCTCCATATTTCTTCTTTTCAGCCCCAATC
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 CATAAGGGTGTACAGTATTTCTTACTGGCTTCCAAAGAAACATAGATAAAGAAATCTTTC
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3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001963 unedited
 CCAATACTGTGTACGAGCCGCATCCTAGGATCGAGTTAATCTTTTTTTTTTTTACTTC
 AATTTCTTTTATTCTGTATGCTGGTATCACCAAAGTCAGGGGTTGAGAAATGAAAGATA
 AACAAAGGACTAGTTAATGCATAAACTGAATGATTCAAAGCCCCAAAATTTAAAGTTA
 CCATATCAGGTTGTGTTATCTGTAGTAAACAATTTTTTCTGCAAGAAAAATTTTAATT
 AGAACACCATGTGAAATTTAATCTACAGAGTTGTAGATTAATAAATTTTTTAAAGTT
 ACAAGGCTGGGCACCGTGGCTAATGCCTATAATCTAATACGTTGGGAGGCTGAAAGTCAA
 TCACAATTCATTTGCAAAATACCAGCAGCACCTTGTGAGGCCAGGAGTTCAAGACC
 AGCCTGGGCAACATTGTGTGATCCCCATGTCTACAAAAATAAAAAATAAACCTTAGCC
 AGGCATGGTGGCCTGTGCTGTGGTCTAGTTACTCGGGAGGCTGAGGCAGGAGGATTGC
 TTGAGCCCAGGAGTTTGGGCTGCACTGAGCTATGATTGTGCCATTGCACACTCCAGCCT
 GGATAACAGAGTGAGATCCTATCCTCTCTCCGGGAAAAAAAAAAAAACGAAAAACAGAAA
 CATCAGCAAGCTTGACAAATCATTTTGGTTTCAACTCTAGTACTGCCTTAACTATAATT
 AACTACTTTATCCAGCATAACAATAAAATGTTTAAATGTTTTGGGTGATTTTATTAATA
 TTTGAAGAAATTCATCGTTTTTCTATAATGAAAACCAATTCAGGCATATTACTTTCCAAT
 CTTGTTAACTGAAAAACATAACCAATTTTGGGCATTACCCCCAAGAGGGAAAAATTTT
 GTGGGGAN

Restriction Sites:

NotI-NotI

ACCN:

NM_001963

Insert Size:

6000 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_001963.2](#), [NP_001954.1](#)

RefSeq Size: 4877 bp

RefSeq ORF: 3624 bp

Locus ID: 1950

UniProt ID: [P01133](#)

Cytogenetics: 4q25

Domains: Idl_recept_b, EGF_CA, EGF, EGF

Protein Families: Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transmembrane

Protein Pathways: Bladder cancer, Cytokine-cytokine receptor interaction, Endocytosis, Endometrial cancer, ErbB signaling pathway, Focal adhesion, Gap junction, Glioma, MAPK signaling pathway, Melanoma, Non-small cell lung cancer, Pancreatic cancer, Pathways in cancer, Prostate cancer, Regulation of actin cytoskeleton

Gene Summary: This gene encodes a member of the epidermal growth factor superfamily. The encoded preproprotein is proteolytically processed to generate the 53-amino acid epidermal growth factor peptide. This protein acts a potent mitogenic factor that plays an important role in the growth, proliferation and differentiation of numerous cell types. This protein acts by binding with high affinity to the cell surface receptor, epidermal growth factor receptor. Defects in this gene are the cause of hypomagnesemia type 4. Dysregulation of this gene has been associated with the growth and progression of certain cancers. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed. [provided by RefSeq, Jan 2016]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.