

## Product datasheet for **SC301004**

### EDA (NM\_001005610) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EDA (NM_001005610) Human Untagged Clone
Tag:	Tag Free
Symbol:	EDA
Synonyms:	ECTD1; ED1; ED1-A1; ED1-A2; EDA-A1; EDA-A2; EDA1; EDA2; HED; HED1; ODT1; STHAGX1; TNLG7C; XHED; XLHED
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC301004 representing NM_001005610. Blue=Insert sequence Red=Cloning site Green=Tag(s)

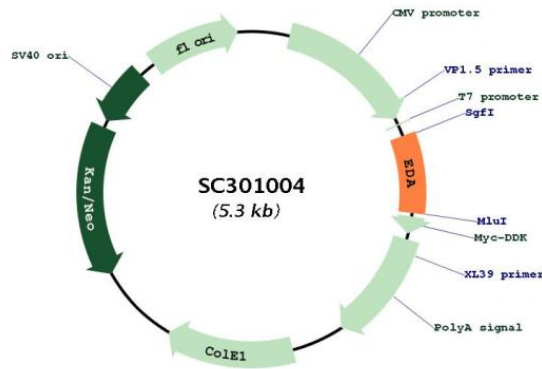
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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGCTACCCGAGGTGGAGCGCAGGGAACCTGCCTGCAGCAGCGCCGCGGGAGCGAGGGAGCCAG
GGCTGCGGGTGTGGCGGGCCCTGCCCGGGCGGGCGAAGGGAACAGCTGCCTGCTCTTCTGGTTTC
TTTGGCTCTCGCTGGCCCTCCACCTGCTGACGTTGTGCTGCTACCTAGAGTTGCGCTCGGAGTTGCGG
CGGGAACGTGGAGCCGAGTCCCGCTTGGCGGCTCGGGCACCCCTGGCACCTCTGGCACCCCTAAGCAGC
CTCGGTGGCTCGACCCTGACAGCCCCATCACCAGTCACCTTGGGAGCCGTCACCTAAGCAGCAGCCA
TTGAACCGGGAGAAGCCGCACTCCACTCTGACTCCCAGGACGGGCACCAGGGACACCAATGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: Sgfl-Mlul



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Plasmid Map:



ACCN: NM\_001005610

Insert Size: 408 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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\\_001005610.3](#)

**RefSeq Size:** 858 bp

**RefSeq ORF:** 408 bp

**Locus ID:** 1896

**UniProt ID:** [Q92838](#)

**Cytogenetics:** Xq13.1

**Protein Families:** Druggable Genome, Secreted Protein, Transmembrane

**Protein Pathways:** Cytokine-cytokine receptor interaction

**MW:** 14 kDa

**Gene Summary:** The protein encoded by this gene is a type II membrane protein that can be cleaved by furin to produce a secreted form. The encoded protein, which belongs to the tumor necrosis factor family, acts as a homotrimer and may be involved in cell-cell signaling during the development of ectodermal organs. Defects in this gene are a cause of ectodermal dysplasia, anhidrotic, which is also known as X-linked hypohidrotic ectodermal dysplasia. Several transcript variants encoding many different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (3) differs in the 3' UTR and coding region compared to variant 1. The resulting isoform (3, also known as EDA-O) is shorter and has a distinct C-terminus compared to isoform 1.