

Product datasheet for **SC303010**

EDA (NM_001399) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EDA (NM_001399) 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
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001399, the custom clone sequence may differ by one or more nucleotides ATGGGCTACCCGGAGGTGGAGCGCAGGGAACCTCCTGCCTGCAGCAGCCGCGGGAGCGA GGGAGCCAGGGCTGCGGGTGTGGCGGGGCCCTGCCCGGGCGGGCGAAGGGAACAGCTGC CTGCTCTTCTCTGGGTTTCTTTGGCCTCTCGCTGGCCCTCCACCTGCTGACGTTGTGCTGC TACCTAGAGTTGCGCTCGGAGTTGCGGCGGGAACGTGGAGCCGAGTCCCGCCTTGGCGGC TCGGGCACCCCTGGCACCTCTGGCACCTAAGCAGCCTCGGTGGCCTCGACCCTGACAGC CCCATCACCAGTCACCTTGGGCAGCCGTACCTAAGCAGCAGCCATTGGAACCGGGAGAA GCCGCACTCCACTCTGACTCCCAGGACGGGCACCAGATGGCCCTATTGAATTTCTTCTTC CCTGATGAAAAGCCATACTCTGAAGAAGAAAGTAGGCGTGTTCGCGCAATAAAAAGAAGC AAAAGCAATGAAGGAGCAGATGGCCAGTTAAAAACAAGAAAAAGGAAAGAAAGCAGGA CCTCCTGGACCCAATGGCCCTCCAGGACCCCAAGGACCTCCAGGACCCCAAGGACCCCA GGAATTCAGGGATTCTGGAATTCAGGAACAACCTGTTATGGGACCACCTGGTCTCCCA GGTCTCTGGTCTCAAGGACCCCTGGCCTCCAGGGACCTTCTGGTGTGCTGATAAA GCTGGAACTCGAGAAAACCAGCCAGCTGTGGTGCATCTACAGGGCCAAGGGTCAGCAATT CAAGTCAAGAATGATCTTTCAGGTGAGTGCTCAATGACTGGTCTCGCATCACTATGAAC CCCAAGGTGTTAAGCTACATCCCCGACGCGGGAGCTGGAGGTACTGGTGGACGGCACC TACTTCATCTATAGTCAGGTAGAAGTATACTACATCAACTCACTGACTTTGCCAGCTAT GAGGTGGTGGTGGATGAGAAGCCCTTCTGCAGTGCACACGCAGCATCGAGACGGGCAAG ACCAACTACAACACTTGCTATACCGCAGGCGTCTGCCTCCTCAAGGCCCGCAGAAGATC GCCGTCAAGATGGTGCACGCTGACATCTCCATCAACATGAGCAAGCACACCACGTTCTTT GGGGCCATCAGGCTGGTGAAGCCCTGCATCCTAG
Restriction Sites:	Please inquire
ACCN:	NM_001399



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OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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_001399.4](#), [NP_001390.1](#)

RefSeq Size: 5296 bp

RefSeq ORF: 1176 bp

Locus ID: 1896

UniProt ID: [Q92838](#)

Cytogenetics: Xq13.1

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

Protein Pathways: Cytokine-cytokine receptor interaction

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 (1) represents the longest transcript and encodes the longest isoform (1, also known as EDA-A1). 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.