

## Product datasheet for **RC219939**

### EDA (NM\_001399) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EDA (NM_001399) Human Tagged ORF Clone
Tag:	Myc-DDK
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)



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**ORF Nucleotide Sequence:**

>RC219939 representing NM\_001399  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGCTACCCGGAGGTGGAGCGCAGGGAACCTCTGCCTGCAGCAGCCCGGGAGCGAGGGAGCCAGG  
 GCTGCGGGTGTGGCGGGGCCCTGCCCGGGCGGGCGAAGGGAACAGCTGCCTGCTTCTGGGTTTCTT  
 TGGCCTCTCGCTGGCCCTCCACCTGCTGACGTTGTGCTGTACCTAGAGTTGCGCTCGGAGTTGCGGCGG  
 GAACGTGGAGCCGAGTCCCGCCTTGGCGGCTCGGGCACCCCTGGCACCTCTGGCACCTAAGCAGCCTCG  
 GTGGCCTCGACCCTGACAGCCCCATCACCAGTCACCTTGGGCAGCCGTCACCTAAGCAGCAGCCATTGGA  
 ACCGGGAGAAGCCGCACTCCACTCTGACTCCCAGGACGGGCACCAGATGGCCCTATTGAATTTCTTCTC  
 CCTGATGAAAAGCCATACTCTGAAGAAGAAAGTAGGCGTGTTCGCCGCAATAAAAAGAAGCAAAGCAATG  
 AAGGAGCAGATGGCCAGTTAAAAACAAGAAAAGGGAAAGAAAGCAGGACCTCTGGACCCAATGGCCC  
 TCCAGGACCCCCAGGACCTCCAGGACCCAGGGACCCCAAGGAATTCAGGGATTCTGGAATTCAGGA  
 ACAACTGTTATGGGACCCTGGTCTCCAGGTCCTCTGGTCTCAAGGACCCCTGGCCTCCAGGGAC  
 TTCTGGTGTGCTGATAAAGCTGGAATCGAGAAAACCAGCCAGCTGTGGTGCATCTACAGGGCAAGG  
 GTCAGCAATTAAGTCAAGAATGATCTTTCAGGTGGAGTGTCAATGACTGGTCTCGCATCACTATGAAC  
 CCCAAGGTGTTAAGCTACATCCCCGACGCGGGGAGCTGGAGGTACTGGTGGACGGCACCTACTTCACT  
 ATAGTCAGGTAGAAGTATACTACATCACTTCACTGACTTTGCCAGCTATGAGGTGGTGGTGGATGAGAA  
 GCCCTTCTGCAGTGCACACGCAGCATCGAGACGGGAAGACCACTACAACACTTGCTATACCGCAGGC  
 GTCTGCCTCCTCAAGGCCCGCAGAAGATCGCCGTCAAGATGGTGCACGCTGACATCTCCATCAACATGA  
 GCAAGCACACCACGTTCTTTGGGGCCATCAGGCTGGGTGAAGCCCTGCATCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC219939 representing NM\_001399  
 Red=Cloning site Green=Tags(s)

MGYPEVERRELLPAAAPRERGSQCGCGGAPARAGEGNSCLLFLGFFGLSLALHLLTLCCYLELRSELRR  
 ERGAESRLGSGTPTGTLSSLGGLDPDSPITSHLGQPSPKQQPLEPGEAALHSDSQDGHQMALLNFFF  
 PDEKPYSEESRRVRRNKRKSNEGADGPVKNKKKGGKAGPPGPNP PPPPPGPPGPPGIPGIPG  
 TTVMPGPPGPPGPPGPPGLQGPSGAADKAGTRENQPAVVHLQGGSAIQVKNDLSSGVLNDSRITMN  
 PKVFKLHPRSGELEVLVDGTYFIYSQVEVYYINFDFASYEVVVDEKPFLLQCTRSIETGKTNYNTCYTAG  
 VCLLKARQKIAVKMVHADISINMSKHTTFFGAIRLGEAPAS

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_001399

ORF Size: 1173 bp

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](mailto: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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

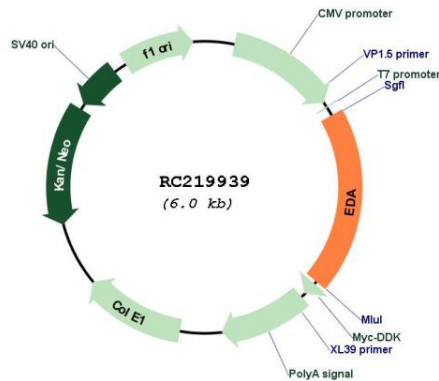
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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\\_001399.5](#)  
**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  
**MW:** 41.1 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]

### Product images:



Circular map for RC219939