

## Product datasheet for **RC215751**

### EDA (NM\_001005612) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EDA (NM_001005612) 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:**

>RC215751 representing NM\_001005612  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGCTACCGGAGGTGGAGCGCAGGGAACCTCTGCCTGCAGCAGCCCGGGAGCGAGGGAGCCAGG  
 GCTGCGGGTGTGGCGGGGCCCTGCCCGGGCGGGCGAAGGGAACAGCTGCCTGCTTCTGGGTTTCTT  
 TGGCCTCTCGCTGGCCCTCCACCTGCTGACGTTGTGCTGTACCTAGAGTTGCGCTCGGAGTTGCGGCGG  
 GAACGTGGAGCCGAGTCCCGCCTTGGCGGCTCGGGCACCCCTGGCACCTCTGGCACCTAAGCAGCCTCG  
 GTGGCCTCGACCCTGACAGCCCCATCACCAGTCACCTTGGGCAGCCGTCACCTAAGCAGCAGCCATTGGA  
 ACCGGGAGAAGCCGCACTCCACTCTGACTCCCAGGACGGGCACCAGATGGCCCTATTGAATTTCTTCTC  
 CCTGATGAAAAGCCATACTCTGAAGAAGAAAGTAGGCGTGTTCGCGCAATAAAAGAAGCAAAGCAATG  
 AAGGAGCAGATGGCCAGTTAAAAACAAGAAAAGGGAAAGAAAGCAGGACCTCTGGACCCAATGGCCC  
 TCCAGGACCCCCAGGACCTCCAGGACCCAGGGACCCCCAGGAATCCAGGGATTCTGGAATTCAGGA  
 ACAACTGTTATGGGACCCTGGTCTCCAGGTCCTCTGGTCTCAAGGACCCCTGGCCTCCAGGGAC  
 TTCTGGTGTGCTGATAAAGCTGGAATCGAGAAAACCAGCCAGCTGTGGTGCATCTACAGGGCAAGG  
 GTCAGCAATCAAGTCAAGAATGGTGGAGTGCTCAATGACTGGTCTCGCATCACTATGAACCCCAAGGTG  
 TTTAAGTACATCCCCGAGCGGGGAGCTGGAGGTACTGGTGGACGGCACCTACTTCATCTATAGTCAGG  
 TATACTACATCAACTTCACTGACTTTGCCAGCTATGAGGTGGTGGTGGATGAGAAGCCCTTCTGCAGTG  
 CACACGCAGCATCGAGACGGCAAGACCAACTACAACACTTGCTATACCGCAGCGCTCGCTCCTCAAG  
 GCCCGGCAGAAGATCGCCGTCAAGATGGTGCACGCTGACATCTCCATCAACATGAGCAAGCACACCAGT  
 TCTTTGGGGCCATCAGGCTGGTGAAGCCCTGCATCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC215751 representing NM\_001005612  
 Red=Cloning site Green=Tags(s)

MGYPEVERRELLPAAAPRERGSQCGCGGAPARAGEGNSCLLFLGFFGLSLALHLLTLCCYLELRSELRR  
 ERGAESRLGSGTPTGTSGLSSLGGLDPDSPITSHLGQPSPKQPLEPGEAALHSDSQDGHQMALLNFFF  
 PDEKPYSEESRRVRRNKRKSNEGADGPVKNKKKGGKAGPPGPNP PPPPPGPPGPPGIPGIPGIPG  
 TTVMPGPPPPGPPGPPGLQGPSGAADKAGTRENQPAVVHLQGGQSAIQVKNGGVLDNWSRITMNPKV  
 FKLHPRSGELEVELVDGTYFIYSQVYYINFTDFASYEVVVDEKPFLLQCTRSIETGKTNYNTCYTAGVCLLK  
 ARQKIAVKMVHADISINMSKHTFFGAIRLGEAPAS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001005612

**ORF Size:** 1158 bp

**OTI Disclaimer:** 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\\_001005612.3](#)

**RefSeq Size:** 5281 bp

**RefSeq ORF:** 1161 bp

**Locus ID:** 1896

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

**Cytogenetics:** Xq13.1

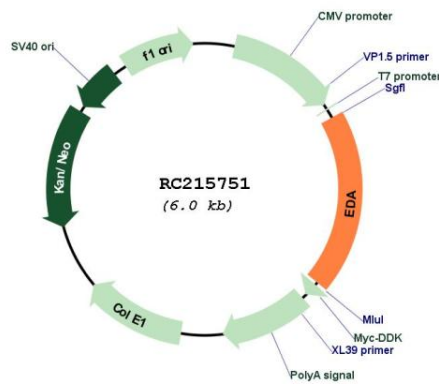
**Protein Families:** Druggable Genome, Secreted Protein, Transmembrane

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

**MW:** 40.8 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 RC215751