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Product datasheet for RC210862

EDAR (NM_022336) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EDAR (NM_022336) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EDAR
Synonyms:	DL; ECTD10A; ECTD10B; ED1R; ED3; ED5; EDA-A1R; EDA1R; EDA3; HRM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC210862 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCCATGTGGGGGACTGCACGCAGACGCCCTGGCTCCCCGTCCTGGTGGTGTCTCTGATGTGCTCAG
CCCGAGCGGAATACTCAAACTGCGGTGAGAACGAGTACTACAACCAGACTACGGGGCTGTGCCAGGAGTG
CCCCCCGTGTGGGCCGGGAGAGGAGCCCTACCTGTCCTGTGGCTACGGCACCAAAGACGAGGACTACGGC
TGCGTCCCCTGCCCGGCGGAGAAGTTTTCCAAAGGAGGCTACCAGATATGCAGGCGTCACAAAGACTGTG
AGGGCTTCTTCCGGGCCACCGTGCTGACACCAGGGGACATGGAGAATGACGCTGAGTGTGGCCCTTGCCT
CCCTGGCTACTACATGCTGGAGAACAGACCGAGGAACATCTATGGCATGGTCTGCTACTCCTGCCTCCTG
GCACCCCCCAACACCAAGGAATGTGTGGGAGCCACTTCAGGAGCTTCTGCCAACTTCCCTGGCACCTCGG
GCAGCAGCACCCTGTCTCCCTTCCAGCACGCCCACAAAGAACTCTCAGGCCAAGGACACCTGGCCACTGC
CCTGATCATTGCAATGTCCACCATCTTCATCATGGCCATCGCCATCGTCCTCATCATCATGTTCTACATC
CTGAAGACAAAGCCCTCTGCCCCAGCCTGTTGCACCAGCCACCCGGGGAAGAGCGTGGAGGCCCAAGTGA
GCAAGGACGAGGAGAAGAAAGAGGCCCCAGACAACGTGGTGATGTTCTCTGAGAAGGATGAATTTGAGAA
GCTGACAGCAACTCCAGCAAAGCCCACCAAGAGCGAGAACGATGCCTCATCCGAGAATGAGCAGCTGCTG
AGCCGGAGCGTCGACAGTGATGAGGAGCCCGCCCCTGACAAGCAGGGCTCCCCGGAGCTGTGCCTGCTGT
CGCTGGTTCACCTGGCCAGGGAGAAGTCTGCCACCAGCAACAAGTCAGCCGGGATTCAAAGCCGGAGGAA
AAAGATCCTCGATGTGTATGCCAACGTGTGTGGAGTCGTGGAAGGTCTTAGCCCCACGGAGCTGCCATTT
GATTGTCTCGAGAAGACTAGCCGAATGCTCAGCTCCACGTACAACTCTGAGAAGGCTGTTGTGAAAACGT
GGCGCCACCTCGCCGAGAGCTTCGGCCTGAAGAGGGATGAGATTGGGGGCATGACAGACGGCATGCAACT
CTTTGACCGCATCAGCACGGCAGGCTACAGCATCCCTGAGCTACTCACAAAACTGGTGCAGATTGAGCGG
CTGGATGCTGTGGAGTCCTTGTGTGCAGACATACTGGAGTGGGCGGGGGTTGTGCCACCTGCCTCCCAGC
CACATGCTGCATCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC210862 protein sequence
Red=Cloning site Green=Tags(s)

MAHVGDCTQTPWLPVLVVSLMCSARAEYSNCGENEYYNQTTGLCQECPPCGPGEEPYLSCGYGTKDEDYG
CVPCPAEKFSKGGYQICRRHKDCEGFFRATVLTPGDMENDAECGPCLPGYYMLENRPRNIYGMVCYSCLL
APPNTKECVGATSGASANFPGTSGSSTLSPFQHAHKELSGQGHLATALIIAMSTIFIMAIAIVLIIMFYI
LKTKPSAPACCTSHPGKSVEAQVSKDEEKKEAPDNVVMFSEKDEFEKLTATPAKPTKSENDASSENEQLL
SRSVDSDEEPAPDKQGSPELCLLSLVHLAREKSATSNKSAGIQSRRKKILDVYANVCGVVEGLSPTELPF
DCLEKTSRMLSSTYNSEKAVVKTWRHLAESFGLKRDEIGGMTDGMQLFDRISTAGYSIPELLTKLVQIER
LDAVESLCADILEWAGVVPPASQPHAAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6137_a04.zip

Restriction Sites: SgfI-MluI

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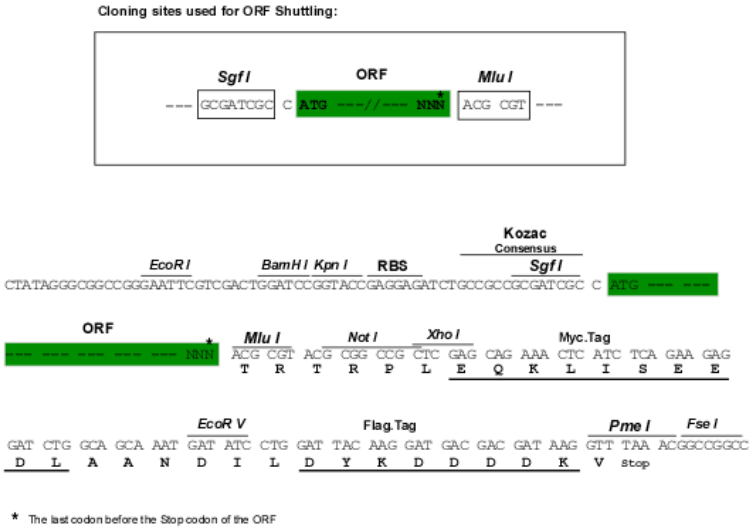
Cloning Scheme:



ACCN: NM_022336

ORF Size: 1344 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_022336.4

RefSeq Size: 4226 bp

RefSeq ORF: 1347 bp

Locus ID: 10913

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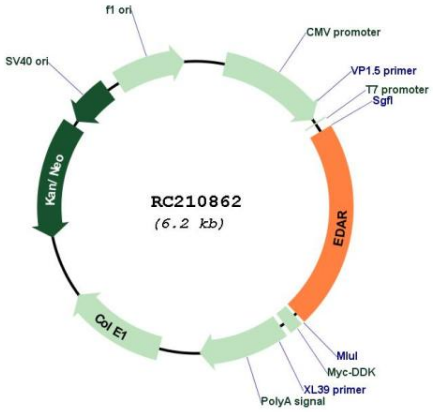
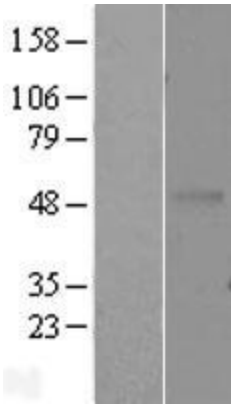
UniProt ID:	Q9UNE0
Cytogenetics:	2q13
Domains:	DEATH
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Cytokine-cytokine receptor interaction
MW:	48.6 kDa
Gene Summary:	This gene encodes a member of the tumor necrosis factor receptor family. The encoded transmembrane protein is a receptor for the soluble ligand ectodysplasin A, and can activate the nuclear factor-kappaB, JNK, and caspase-independent cell death pathways. It is required for the development of hair, teeth, and other ectodermal derivatives. Mutations in this gene result in autosomal dominant and recessive forms of hypohidrotic ectodermal dysplasia. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC210862



Western blot validation of overexpression lysate (Cat# [LY402917]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210862 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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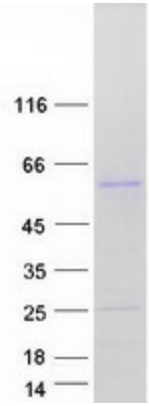

Coomassie blue staining of purified EDAR protein (Cat# [TP310862]). The protein was produced from HEK293T cells transfected with EDAR cDNA clone (Cat# RC210862) using MegaTran 2.0 (Cat# [TT210002]).

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