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Product datasheet for RC210112

EDDM3A (NM_006683) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EDDM3A (NM_006683) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EDDM3A
Synonyms:	EP3A; FAM12A; HE3-ALPHA; HE3A; HE3ALPHA; RAM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC210112 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACATCCTCTCTAAAGATTTGGGGCATACTCTTGGCCCTGCTTTGCATCCTTTGCAGGCTGTGTGTAT
ACAGTAACAACATTTACTGGAGAGAATTCATAAAACTTCATTACTTAAGTCCAAGTCGAGAATTCAAAGA
GTACAAATGTGATGTCCTCATGAGAGAAAAAGAGGCTCTGAAAGGCAAGAGCTTTCATATGTTCATCTAT
AGCTTATGGTTCAAAATTCAGCGTGCATGCATCAATGAGAAGGGGAGTGACCGATATAGAAATGCATATG
TATGGGCCCCAGGTGCCCTCAAAGTACTCGAGTGTCACTGGGAGAAGTACAACAATAGGTACACAGAGAG
CAGAAGCTTCAGCTACATTGAATTCCATTGTGGCGTAGATGGATATGTTGATAACATAGAAGACCTGAGG
ATTATAGAACCTATCAGCAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC210112 protein sequence
Red=Cloning site Green=Tags(s)

MTSSLKIWGILLALLCILCRLCVYSNNIYWREFIKLHYLSPSREFKEYKCDVLMREKEALKGKSFHMFIY
SLWFKIQRACINEKGSDRYRNAYVWAPGALKVLECHWEKYNNRYTESRSFSYIEFHCGVDGYVDNIEDLR
IIEPISN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6370_g08.zip

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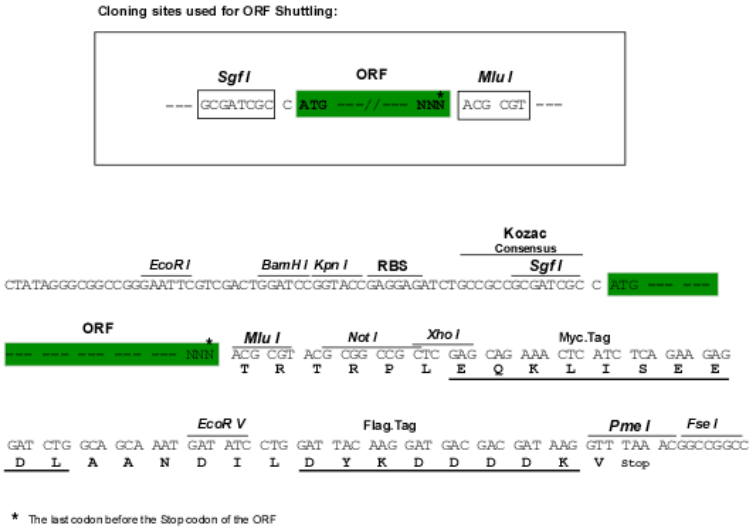
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006683

ORF Size: 441 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_006683.5

RefSeq Size: 879 bp

RefSeq ORF: 444 bp

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Locus ID: 10876

UniProt ID: Q14507

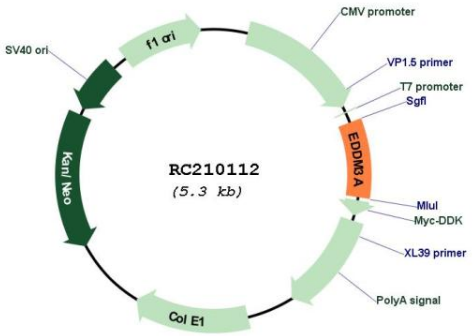
Cytogenetics: 14q11.2

Protein Families: Secreted Protein, Transmembrane

MW: 17.6 kDa

Gene Summary: Testicular sperm are morphologically differentiated but are not progressively motile nor able to fertilize an egg. Post-testicular maturation requires exposure of spermatozoa to the microenvironment of the epididymal lumen. Spermatozoa undergo extensive changes in the epididymis, including enzymatic modifications, loss of pre-existing components and addition of new glycoproteins from epididymal secretions. These modifying proteins and enzymes are synthesized by epithelial cells lining the epididymal duct and secreted apically into the lumen, where they come into contact with, and may be absorbed onto, the sperm membranes. The proteins encoded by the genes in this cluster are synthesized and secreted by epididymal epithelial cells. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC210112

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