

Product datasheet for **RC213305**

EDDM3B (NM_022360) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: EDDM3B (NM_022360) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: EDDM3B
Synonyms: EP3B; FAM12B; HE3-BETA; HE3B; RAM2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC213305 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCATCGTCTGTAAGATCTGGGCACACTCTGGCCCTACTTTGCATCCTATGCACACTGCTTGTAC
AGAGCAAAGAAGTTTCTGGAGAGAATTCATAAAACAGCACTACTTAAGTCCAAGTCGAGAATTCAGAGA
GTACAAATGTGATGTCCTCATGAGAGAAAATGAAGCTCTGAAAGACAAGAGCTCTCACATGTTTATCTAT
ATCTCATGGTACAAAATCGAGCATATATGCACTAGTGACAACCTGGATGGATCGCTCCGAAATGCATATG
TATGGGTCAGAAATCCTCTCAAAGTACTCAAGTGTACCAGGAGAATCCAAAAATAGCTACACAGAGAG
CAGGAGCTTCAACTACATTGAATTCATTGTAGCATGGACGGGTATGTTGATAGCATAGAAGACCTAAAG
ATGGTAGAACCTATCGGCAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC213305 protein sequence
Red=Cloning site Green=Tags(s)
MASSVKIWGTLALLCILCTLLVQSKEVSWREFMKQHLYLSPSREFREYKCDVLMRENEALKDKSSHMFIIY
ISWYKIEHICTSDNWMDFRFRNAYVWVQNPLKVLKCHQENSKNSYTESRSFNIEFHCSMDGYVDSIEDLK
MVEPIGN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

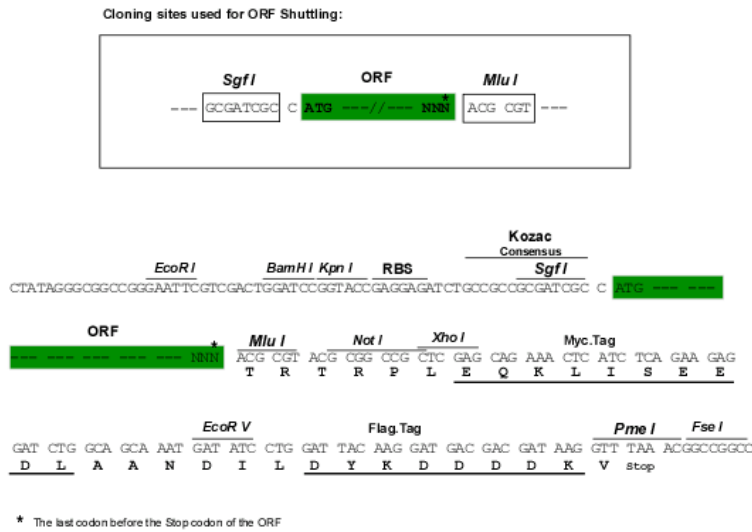
Chromatograms: https://cdn.origene.com/chromatograms/mk6472_f05.zip



[View online >](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022360

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.

RefSeq: [NM_022360.5](#)

RefSeq Size: 897 bp

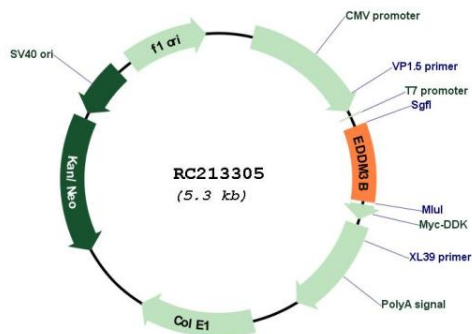
RefSeq ORF: 444 bp

Locus ID: 64184

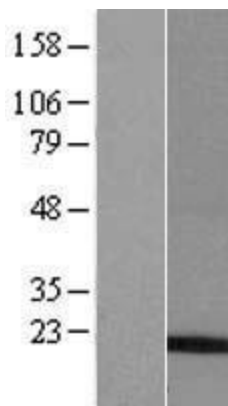
UniProt ID: [P56851](#)
Cytogenetics: 14q11.2
Protein Families: Secreted Protein, Transmembrane
MW: 17.6 kDa

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]

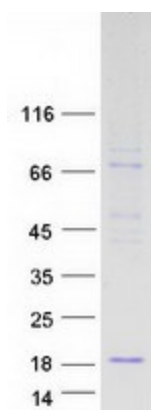
Product images:



Circular map for RC213305



Western blot validation of overexpression lysate (Cat# [LY411686]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213305 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified EDDM3B protein (Cat# [TP313305]). The protein was produced from HEK293T cells transfected with EDDM3B cDNA clone (Cat# RC213305) using MegaTran 2.0 (Cat# [TT210002]).