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Product datasheet for RC213033

CABYR (NM_138644) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CABYR (NM_138644) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CABYR
Synonyms:	CABYRa; CABYRc; CABYRc/d; CABYRe; CBP86; CT88; FSP-2; FSP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC213033 representing NM_138644
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATTTCTTCAAAGCCCAGACTTGTCGTACCCTATGGCCTCAAGACTCTGCTCGAGGGAATTAGCAGAG
CTGTTCTCAAAACCAACCCATCAAACATCAACCAGTTTGCAGCAGCTTATTTTCAAGAACTTACTATGTA
TAGAGGGAATACTACTATGGATATAAAAGATCTGGTTAAACAATTTCATCAGATTAAAGTAGAGAAATGG
TCAGAAGGAACGACACCACAGAAGAAATTAGAATGTTTAAAAGAACCAGGAAAAACATCTGTAGAATCTA
AAGTACCTACCCAGATGGAAAAATCTACAGACACAGACGAGGACAATGTAACCAGAACAGAATATAGTGA
CAAAACCACCCAGTTTCCATCAGTTTATGCTGTGCCAGGCACTGAGCAAACGGAAGCAGTTGGTGGTCTT
TCTTCCAAACCAGCCACCCCTAAGACTACTACCCCACCCTCATCACCACCTCCAACAGCTGTCTCACCAG
AGTTTGCCTACGTCCCAGCTGACCCAGCTCAGCTTGCTGCTCAGATGTTAGCAATGGCAACAAGTGAACG
AGGACAACCACCACCATGTTCTAACATGTGGACCCTTTATTGTCTAACTGATAAGAATCAACAAGGTCAC
CCATCACCGCCACCTGCACCTGGGCCTTTTCCCCAAGCAACCCTCTATTTACCTAATCCTAAGGATCCAC
AGTTTCAGCAGCATCCACCAAAAGTCACTTTTCCAACTTATGTGATGGGCGACACCAAGAAGACCAGTGC
CCCACCTTTTATCTTAGTAGGCTCAAATGTTCAGGAAGCACAGGGATGGAAACCTCTTCCCGGACATGCT
GTCGTTTCACAGTCAGATGTCTTGAGATATGTTGCAATGCAAGTGCCCATTGCTGTTCCTGCAGATGAGA
AATACCAGAAACATACCCTAAGTCCCCAGAATGCTAATCCTCCAAGTGGACAAGATGTCCCCAGGCCAAA
AAGCCCTGTTTTCCTTTCTGTTGCTTTCCCAGTAGAAGATGTAGCTAAAAAAAGTTCAGGATCTGGTGAC
AAATGTGCTCCCTTTGGAAGTTACGGTATTGCTGGGGAGGTAACCGTGACTACTGCTCACAAACGTCGCA
AAGCAGAAACTGAAAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC213033 representing NM_138644
Red=Cloning site Green=Tags(s)

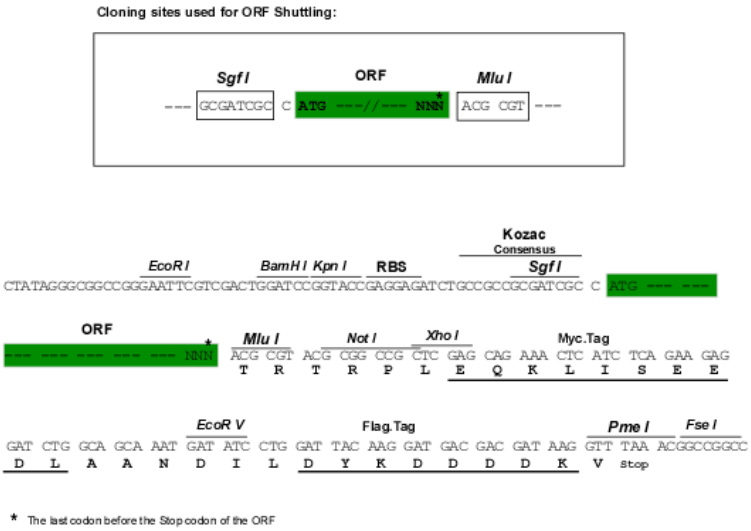
MISSKPRLVVPYGLKTLLEGISRAVLKTNPSNINQFAAAYFQELTMYRGNTTMDIKDLVKQFHQIKVEKW
SEGTTPQKKLECLKEPGKTSVESKVPTQMEKSTDTDEDNVTRTEYSDKTTQFPSVYAVPGTEQTEAVGGL
SSKPATPKTTTPPSSPPPTAVSPEFAYVPADPAQLAAQMLAMATSERGQPPPCSNMWTLYCLTDKNQQGH
PSPPPAPGPFPQATLYLPNPKDPQFQQHPPKVTFPTYVMGDTKKTSAPPFILVGSNVQEAQGWKPLPGHA
VVSQSDVLRYVAMQVPIAVPADEKYQKHTLSPQNANPPSGQDVPRPKSPVFLSVAFPVEDVAKKSSGSGD
KCAPFGSYGIAGEVTVTTAHKRRKAETEN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3570_d01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_138644

ORF Size: 1137 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_138644.2, NP_619585.1

RefSeq Size: 1284 bp

RefSeq ORF: 1140 bp

Locus ID: 26256

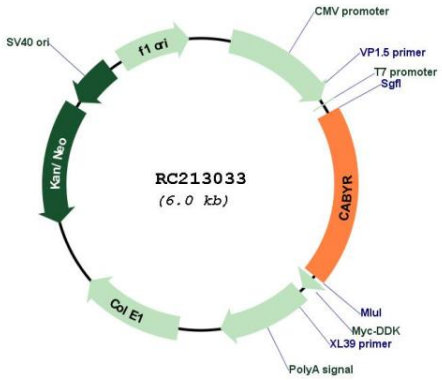
UniProt ID: O75952

Cytogenetics: 18q11.2

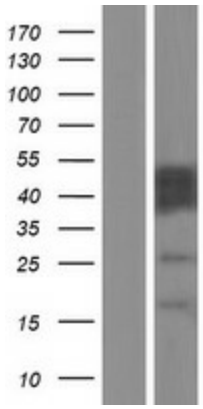
MW: 40.9 kDa

Gene Summary: To reach fertilization competence, spermatozoa undergo a series of morphological and molecular maturational processes, termed capacitation, involving protein tyrosine phosphorylation and increased intracellular calcium. The protein encoded by this gene localizes to the principal piece of the sperm flagellum in association with the fibrous sheath and exhibits calcium-binding when phosphorylated during capacitation. A pseudogene on chromosome 3 has been identified for this gene. Alternatively spliced transcript variants encoding distinct protein isoforms have been found for this gene. [provided by RefSeq, Jul 2013]

Product images:



Circular map for RC213033



Western blot validation of overexpression lysate (Cat# [LY408543]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213033 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).