

## Product datasheet for RC213127

### CABYR (NM\_138643) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CABYR (NM_138643) 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:	>RC213127 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATTTCTTCAAAGCCAGACTTGTCTACCCCTATGGCCTCAAGACTCTGCTCGAGGGAATTAGCAGAG  
CTGTTCTCAAACCAACCCATCAAACATCAACCAGTTTGCAGCAGCTATTTTCAAGAACTACTATGTA  
TAGAGGGAATACTACTATGGATATAAAGATCTGGTTAAACAATTCATCAGATTAAGTAGAGAAATGG  
TCAGAAGGAACGACACCACAGAAGAAATAGAATGTTTAAAGAACCAGGAAAAACATCTGTAGAATCTA  
AAGTACCTACCCAGATGGAAAAATCTACAGACACAGACGAGGACAATGTAACCAGAACAGAATATAGTGA  
CAAACCAACCCAGTTTCCATCAGTTTATGCTGTGCCAGGCACTGAGCAAACGGAAGCAGTTGGTGGTCTT  
TCTTCAAACCAACCCCTAAGACTACTACCCACCCCTCATCACACCTCCAACAGCTGTCTCACCAG  
AGTTTGCCTACGTCCCAGCTGACCCAGCTCAGCTTGTCTCAGATGTTAGCAATGGCAACAAGTGAACG  
AGGACAACCACCACCATGTTCTAACATGTGGACCCTTTATTGTCTAACTGATAAGAATCAACAAGGTCCAC  
CCATCACCGCCACCTGCACCTGGGCCTTTCCCAAGCAACCCCTATTTACCTAATCCTAAGGATCCAC  
AGTTTCAGCAGCATCCACAAAAGTCACCTTTCCAACCTATGTGATGGGCGACACCAAGAAGACCAGTGC  
CCCACCTTTTATCTTAGTAGGCTCAAATGTTTCCAGGAAGCACAGGGATGGAACCTCTTCCCGGACATGCT  
GTCGTTTCACAGTCAGATGTCTTGAGATATGTTGCAATGCAAGTGCCATTGCTGTTCTGCAGATGAGA  
AATACCAGAAACATACCCTAAGTCCCAGAAATGCTAATCCTCAAGTGGACAAGATGTCCCAGGCCAAA  
AAGCCCTGTTTTCTTTGTTGCTTTCCAGTAGAAGATGTAGCTAAAAAAGTTCCAGGATCTGGTGAC  
AAATGTGCTCCCTTTGGAAGTTACGGTATTGCTGGGGAGTAACCGTGACTACTGCTCACAACGTCGCA  
AAGCAGAACTGAAAAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC213127 protein sequence  
 Red=Cloning site Green=Tags(s)

MISSKPRLVVPYGLKTLLEGISRAVLKTNPSNINQFAAAYFQEL TMYRGNTTMDIKDLVKQFHQIKVEKW  
 SEGTTTPQKKLECLKKEPGKTSVESKVPTQMEKSTDDTDEDNVRTREYSDKTTQFPSVYAVPGTEQTEAVGGL  
 SSKPATPKTTTTPPSSPPPTAVSPEFAYVPADPAQLAAQMLAMATSERGQPPPCSNMWTLYCLTDKNQQGH  
 PSPPPAPGPFPPQATLYLPNPKDPQFQQHPPKVTFTYVMGDTKKTSAPPFILVGSNVQEAQGWKPLPGHA  
 VVSQSDVLRVYAMQVPIAVPADEKYQKHTLSPQANANPPSGQDVPRPKSPVFLSVAFPVEDYAKKSSGSGD  
 KCAPFGSYGIAGEVTVTTAHRKRAETEN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6304\\_c01.zip](https://cdn.origene.com/chromatograms/mk6304_c01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_138643

**ORF Size:** 1140 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 Size:** 1202 bp

**RefSeq ORF:** 846 bp

**Locus ID:** 26256

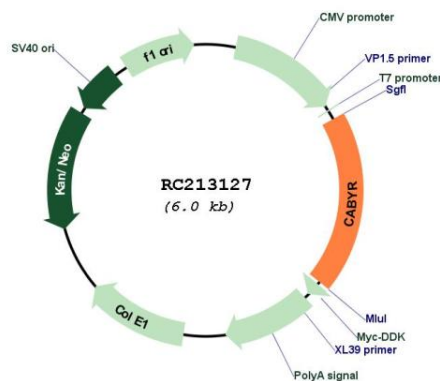
**UniProt ID:** [O75952](#)

**Cytogenetics:** 18q11.2

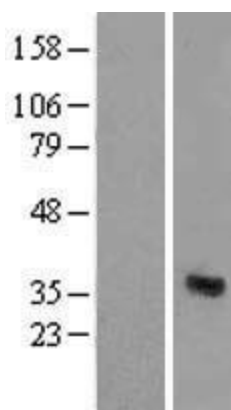
**MW:** 41.1 kDa

**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 RC213127



Western blot validation of overexpression lysate (Cat# [LY408542]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213127 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).