

Product datasheet for **RC219448**

CABYR (NM_153770) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CABYR (NM_153770) 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: >RC219448 representing NM_153770
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATTTCTTCAAAGCCAGACTTGTCGTACCCTATGGCCTCAAGACTCTGCTCGAGGGAATTAGCAGAG
CTGTTCTCAAACCAACCCATCAAACATCAACCAGTTTGCAGCAGCTTATTTTCAAGAACTACTATGTA
TAGAGGGAATACTACTATGGATATAAAGATCTGGTTAAACAATTCATCAGATTAAGTAGAGAAATGG
TCAGAAGGAACGACACCACAGAAGAAATTAGAATGTTTAAAGAACCAGGAAAAACATCTGTAGAATCTA
AAGTACCTACCCAGATGGAAAAATCTACAGACACAGACGAGGACAATGTAACCAGAACAGAATATAGTGA
CAAACCAACCCAGTTTCCATCAGTTTATGCTGTGCCAGGCACTGAGCAAACGGAAGCAGTTGGTGGTCTT
TCTTCAAACCAACCCCTAAGACTACTACCCACCCCTCATCACACCTCCAACAGCTGTCTACCAG
AGTTTGCCTACGTCCCAGCTGACCCAGCTCAGCTTGCTGCTCAGATGTTAGAAGATGTAGCTAAAAAAG
TTCAGGATCTGGTGACAAATGTGCTCCCTTTGGAAGTTACGGTATTGCTGGGGAGGTAACCGTGACTACT
GCTCACAACGTCGAAAGCAGAAACTGAAAAAC

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC219448 representing NM_153770
Red=Cloning site Green=Tags(s)

MISSKPRLVVPYGLKTLLEGISRAVLKTNPSNINQFAAAYFQEL TMYRGNTTMDIKDLVKQFHQIKVEKW
 SEGTTTPQKKLECLKKEPGKTSVESKVPTQMEKSTDTDEDNVTRTEYSDKTTQFPSVYAVPGTEQTEAVGGL
 SSKPATPKTTTTPPSSPPPTAVSPEFAYVPADPAQLAAQMLEDVAKKSSGSGDKCAPFGSYGIAGEVTVTT
 AHKRRKAETEN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3566_d05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_153770

ORF Size: 663 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_153770.3](#)

RefSeq Size: 902 bp

RefSeq ORF: 666 bp

Locus ID: 26256

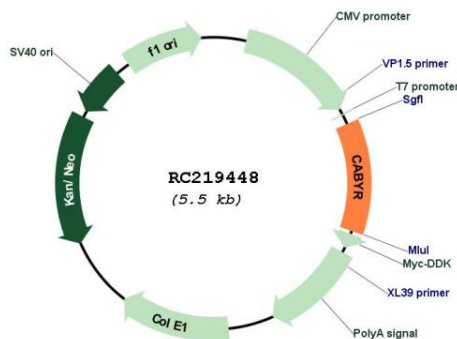
UniProt ID: [O75952](#)

Cytogenetics: 18q11.2

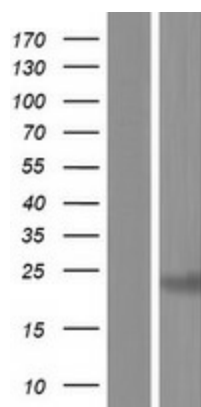
MW: 23.8 kDa

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 RC219448



Western blot validation of overexpression lysate (Cat# [LY406957]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219448 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).