

Product datasheet for **RG214772**

CABYR (NM_012189) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CABYR (NM_012189) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CABYR
Synonyms:	CABYRa; CABYRc; CABYRc/d; CABYRe; CBP86; CT88; FSP-2; FSP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG214772 representing NM_012189
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATTTCTTCAAAGCCAGACTTGTCTGACCTATGGCCTCAAGACTCTGCTCGAGGGAATTAGCAGAG
 CTGTTCTCAAACCAACCCATCAAACATCAACAGTTTGCAGCAGCTATTTTCAAGAACTACTATGTA
 TAGAGGGAATACTACTATGGATATAAAAGATCTGGTTAAACAATTCATCAGATTAAGTAGAGAAATGG
 TCAGAAGGAACGACACCACAGAAGAAATTAAGAATGTTTAAAGAACCAGGAAAAACATCTGTAGAATCTA
 AAGTACCTACCCAGATGGAAAACTACAGACACAGCAGGACAATGTAACCAGAACAGAAATATAGTGA
 CAAAACCCAGTTTCCATCAGTTTATGCTGTGCCAGGCACTGAGCAAACGGAAGCAGTTGGTGGTCTT
 TCTTCAAACCCAGCCACCCTAAGACTACTACCCACCCTCATCACACCTCCAACAGCTGTCTCACCGAG
 AGTTTGCCTACGTCACCCAGCTGACCCAGCTCAGCTTGTCTGCTCAGATGTTAGGTAAGTTTCATCTATTCA
 TTCTGATCAATCTGATGTGTTAATGGTGGATGTGGCAACCAGTATGCCTGTTGTTATCAAGGAGGTGCCA
 AGCTCAGAGGCTGCTGAAGATGTCATGGTGGCTGCTCCTTTGTGTGTTCTGGAAAGGTGCTAGAAGTGC
 AGGTTGTGAACCAACATCTGTCCATGTAGATTTGGGTTCTCAACCTAAAGAAAAATGAGGCTGAACCATC
 AACGGCTTCTCAGTCCCCTTGCAGGATGAACAAGAACCTCCTGCTTATGATCAAGCTCCTGAGGTCAGT
 TTGCAGGCTGATATTGAGGTTATGTCAACTGTTTATATCATCTGTCTATAACGATGTGCCCTGTGACTG
 AAGGAGTTGTTTATATCGAGCAACTGCCAGAACAATAGTTATCCCTTTTACTGATCAAGTTGCTTGTCT
 TAAAGAAAATGAGCAGTCAAAGAAAATGAGCAGTCACCACGAGTTAGTCCCAAATCTGTAGTAGAAAAG
 ACCACCTCTGGCATGTCTAAAAATCTGTAGAGTCTGTAAACTTGACACAGTTGGAGGAGAATGCAAAAT
 ATTCTCAGTATATATGGAGGCAGAAGCAACAGCTCTGCTCTGTACACATCTTTGAAAGGTCAGCCTGA
 GGTACCTGCACAACCTCCTGGATGCAGAAGGTGCTATCAAAATAGGCTCTGAAAAATCTCTGCACCTTGAA
 GTGGAGATCACTTCAATAGTCTCTGACAATACTGGGCAGGAGGAGTCTGGGGAAAATCTGTACCCAGG
 AGATGGAAGGCAACCTGTGCTCTCTGGGGAAGCTGCAGAAGCAGTGCACCTCAGGTACATCTGTAAGTCT
 ATCTAGTGGCCCTTCCCTCCTGCTCCAGAAGGCCTTACTGCACCAGAAATTGAACCAGAAGGGGAATCA
 ACAGCTGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG214772 representing NM_012189
 Red=Cloning site Green=Tags(s)

MISSKPRLLVVPYGLKTLLEGISRAVLKTNPSNINQFAAAYFQEL TMYRGNTTMDIKDLVKQFHQIKVEKW
 SEGTPQKKLECLKKEPGKTSVESKVPTQMEKSTDTDEDNVRTREYSKTTQFPSVYAVPGTEQTEAVGGL
 SSKPATPKTTTTPPSSPPPTAVSPEFAYVPADPAQLAAQMLGKVSSIHSQSDVLMVDVATSMPPVVIKEVP
 SSEAAEDVMVAAPLVCSGKLVLEVQVNNQTSVHVDLGSQPKENEAEPESTASSVPLQDEQEPPAYDQAPEVT
 LQADIEVMSTVHISSVYNDVPVTEGVVYIEQLPEQIVIPFTDQVACLKENEQSKENEQSPRVSPKSVVEK
 TTSGMSSKSVESVKLAQLEENAKYSSVYMEAEATALLSDTSLKGQPEVPAQLLDAEIGAIGSEKSLHLE
 VEITSIVSDNTGQEESEGENSVQEMEGKPVLSGEAAEAVHSGTSVKSSSGPFPPEGLTAPEIEPEGES
 TAE

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_012189

ORF Size: 1479 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_012189.4](#)

RefSeq Size: 2333 bp

RefSeq ORF: 1482 bp

Locus ID: 26256

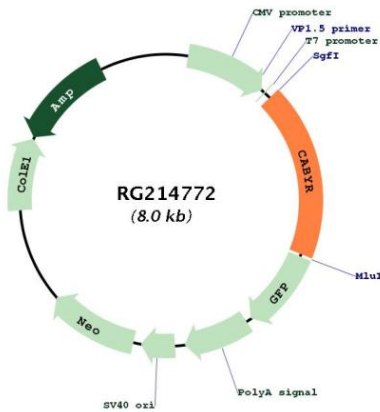
UniProt ID: [O75952](#)

Cytogenetics: 18q11.2

Domains: RIIa

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 RG214772