

Product datasheet for **SC306660**

CABYR (NM_153768) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CABYR (NM_153768) Human Untagged Clone
Tag:	Tag Free
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)



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Fully Sequenced ORF: >SC306660 representing NM_153768.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGATTTCTTCAAAGCCAGACTTGTTCGTACCCTATGGCCTCAAGACTCTGCTCGAGGGAATTAGCAGA
GCTGTTCTCAAACCAACCCATCAAACATCAACCAGTTTGCAGCAGCTTATTTTCAAGAACTTACTATG
TATAGAGTAGAGAAATGGTCAGAAGGAACGACCCACAGAAAGAAATTAGAATGTTTAAAAGAACCAGGA
AAAACATCTGTAGAATCTAAAGTACCTACCCAGATGGAATAATCTACAGACACAGACGAGGACAATGTA
ACCAGAACAGAATATAGTGACAAAACCCAGTTTCCATCAGTTTATGCTGTGCCAGGCACTGAGCAA
ACGGAAGCAGTTGGTGGTCTTTCTTCAAACCAGCCACCCTAAGACTACTACCCACCCTCATACCA
CCTCCAACAGCTGTCTACCAGAGTTTGCCTACGTCCCAGCTGACCCAGCTCAGTTGCTGCTCAGATG
TTAGGTAAGTTTCATCTATTCTGATCAATCTGATGTGTTAATGGTGGATGTGCAACCAGTATG
CCTGTTGTTATCAAGGAGGTGCCAAGCTCAGAGGCTGCTGAAGATGTCATGGTGGCTGCTCCTTGTG
TGTTCTGGAAGGTGCTAGAAGTGCAGGTTGTGAACCAACATCTGTCCATGTAGATTTGGTTCTCAA
CCTAAAGAAAATGAGGCTGAACCATCAACGGCTTCCCTCAGTCCCCTTGCAGGATGAACAAGAACCTCCT
GCTTATGATCAAGCTCCTGAGGTCACTTGCAGGCTGATATTGAGTTATGTCAACTGTTTATATATCA
TCTGTCTATAACGATGTGCCTGTGACTGAAGGAGTTGTTTATATCGAGCAACTGCCAGAACAATAGTT
ATCCCTTTTACTGATCAAGTTGCTTGTCTTAAAGAAAATGAGCAGTCAAAAAGAAAATGAGCAGTACCA
CGAGTTAGTCCCAATCTGTAGTAGAAAAGACCACCTCTGGCATGTCTAAAAATCTGTAGAGTCTGTA
AACTTGCACAGTTGGAGGAGAATGCAAAATATCCTCAGTATATATGGAGGCAGAAGCAACAGCTCTG
CTCTCTGACACATCTTTGAAAGGTGACCTGAGGTACCTGCACAACCTCTGGATGCAGAAGGTGCTATC
AAAATAGGCTCTGAAAAATCTGCACCTTGAAGTGGAGATCACTTCAATAGTCTCTGACAATACTGGG
CAGGAGGAGTCTGGGAAAACCTGTACCCAGGAGATGGAAGGCAACCTGTGCTCTCTGGGAAAGCT
GCAGAAGCAGTGCACCTCAGGTACATCTGTAAAGTCATCTAGTGGCCCTTCCCTCCTGCTCCAGAAGGC
CTTACTGCACCAGAAATTGAACCAGAAGGGGAATCAACAGCTGAATAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: Sgfl-MluI

ACCN: NM_153768

Insert Size: 1428 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_153768.2](#)

RefSeq Size: 2328 bp

RefSeq ORF: 1428 bp

Locus ID: 26256

UniProt ID: [O75952](#)

Cytogenetics: 18q11.2

MW: 50.7 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]

Transcript Variant: This variant (2) lacks an alternate in-frame exon, compared to variant 1. The encoded isoform (b) lacks an internal segment in the N-terminal region, compared to isoform a. CCDS Note: This CCDS representation is supported by protein evidence in PMIDs 11820818 and 16139264.