

## Product datasheet for **SC110366**

### **CABYR (NM\_012189) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CABYR (NM_012189) Human Untagged Clone
Tag:	Tag Free
Symbol:	CABYR
Synonyms:	CABYRa; CABYRc; CABYRc/d; CABYRe; CBP86; CT88; FSP-2; FSP2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC110366 sequence for NM\_012189 edited (data generated by NextGen Sequencing)

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ATGATTTCTTCAAAGCCCAGACTTGTCTGACCTATGGCCTCAAGACTCTGCTCGAGGGA
ATTAGCAGAGCTGTTCTCAAACCAACCCATCAAACATCAACCAGTTTGCAGCAGCTTAT
TTTCAAGAACTTACTATGTATAGAGGGAATACTACTATGGATATAAAAGATCTGGTTAAA
CAATTTTCATCAGATTAAGTAGAGAAATGGTCAGAAGGAACGACACCACAGAAGAATTA
GAATGTTTTAAAAGAACCAGGAAAAACATCTGTAGAATCTAAAGTACCTACCCAGATGGAA
AAATCTACAGACACAGACGAGGACAATGTAACCAGAACAGAATATAGTGACAAAACCACC
CAGTTTTCCATCAGTTTATGCTGTGCCAGGCACTGAGCAAACGGAAGCAGTTGGTGGTCTT
TCTTCAAACCAGCCACCCTAAGACTACTACCCACCCTCATCACACCTCCAACAGCT
GTCTACCAGAGTTTGCCTACGTCCCAGCTGACCCAGCTCAGCTTGTCTGCTCAGATGTTA
GGTAAAGTTTCATCTATTCTGATCAATCTGATGTGTTAATGGTGGATGTGGCAACC
AGTATGCCTGTTGTTATCAAGGAGGTGCCAAGCTCAGAGGCTGCTGAAGATGTCATGGT
GCTGCTCCTCTTGTGTCTCGAAAGGTGCTAGAAGTGCAGGTTGTGAACCAAACATCT
GTCCATGTAGATTTGGGTTCTCAACCTAAAGAAAATGAGGCTGAACCATCAACGGCTTCC
TCAGTCCCCTTGCAAGGATGAACAAGAACCTCCTGCTTATGATCAAGCTCCTGAGGCTCACT
TTGCAGGCTGATATTGAGGTTATGTCAACTGTTTATATATCATCTGTCTATAACGATGTG
CCTGTGACTGAAGGAGTTGTTTATATCGAGCAACTGCCAGAACAAATAGTTATCCCTTTT
ACTGATCAAGTTGCTTGTCTTAAAGAAAATGAGCAGTCAAAGAAAATGAGCAGTACCA
CGAGTTAGTCCCAATCTGTAGTAGAAAAGACCACCTCTGGCATGTCTAAAAATCTGTA
GAGTCTGTAAAATTGCACAGTTGGAGGAGAATGCAAAATATTCCTCAGTATATATGGAG
GCAGAAGCAACAGCTCTGCTCTCTGACACATCTTTGAAAGGTGAGCCTGAGGTACCTGCA
CAACTCTGGATGCAGAAGGTGCTATCAAAATAGGCTCTGAAAAATCTCTGCACCTTGAA
GTGGAGTCACTTCAATAGTCTCTGACAATACTGGGCAGGAGGAGTCTGGGAAAACTCT
GTACCCAGGAGATGGAAGGCAAACCTGTGCTCTCTGGGGAAGCTGCAGAAGCAGTGCAC
TCAGGTACATCTGTAAGTCATCTAGTGGCCCTTCCCTCCTGCTCCAGAAGGCCTTACT
GCACCAGAAATTGAACCAGAAGGGGAAGCAACAGCTGAATAA
    
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Clone variation with respect to NM\_012189.2  
1468 t=>g

**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_012189 unedited
NTGTCAGAATTTGTATACGACTCACTATAGGCGGCCGGAATCGGCACGAGGCTTAAGAG
CGCGGCCGGAAAGCAGTTGAGTTACAGACATCCTGCCAAAAGATTTCTCAAAGCCCAGA
CTTGTGCTACCCTATGGCCTCAAGACTCTGCTCGAGGGAATTAGCAGAGCTGTTCTCAA
ACCAACCCATCAAACATCAACCAGTTTGCAGCAGCTTATTTTCAAGAACTTACTATGTAT
AGAGGGAATACTACTATGGATATAAAAGATCTGGTTAAACAATTCATCAGATTAAGTA
GAGAAATGGTCAGAAGGAACGACACCACAGAAGAAATTAGAATGTTTTAAAAGAACCAGGA
AAAACATCTGTAGAATCTAAAGTACCTACCCAGATGGAATAATCTACAGACACAGACGAG
GACAATGTAACCAGAACAGAATATAGTGACAAAACCACCCAGTTTCCATCAGTTTATGCT
GTGCCAGGCACTGAGCAAACGGAAGCAGTTGGTGGTCTTTCTTCAAACCAGCCACCCT
AAGACTACTACCCACCCTCATCACACCTCCAACAGCTGTCTCACCAGAGTTTGCCTAC
GTCCCAGCTGACCAGCTCAGCTTGCTGCTCAGATGTTAGGTAAGTTTCATCTATTTCAT
TCTGATCAATCTGATGTGTTAATGGTGGATGTGGCAACCAGTATGCCTGTTGTTATCAAG
GAGGTGCCAAGCTCAGAGGCTGCTGAAGATGTCATGGTGGCTGCTCCTTGTGTGTTCT
GGAAAGTCTNAGAGTGCANGTTGTGAACANACATCTGTCCATGTAGATTTTGGTTCTC
AACCTANAGAANATGAGGCTGACCATNCACGGCTTNTCTCAGTCCCCTTGCAAGATGAAC
AAGACCTCCTGC
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_012189 unedited GCGCGCCGCTTTCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGTATGCTTGCATGAAGT TTATTGATACATTAACTGGTGGCAGACTCCTCCCTGAATGTTGACCCAGACAGCGTCAT TTCTGGATCAGTTTTCTGCTTTGCGACGTTTGTGAGCAGTAGTCACGGTTACCT CCCCAGCAATACCGTAACTTCCAAAGGGAGCACATTTGTCACCAGATCCTGAACTTTTTT TAGCTACATCTTCTACTGGGAAAGCAACAGAAAGAAAACAGGGCTTTTTGGCCTGGGGA CATCTTGTCCACTTGGAGGATTAGCATTCTGGGACTTAGGGTATGTTTTCTGGCATTCT CATCTGCAGGAACAGCAATGGGCATTGCATTGCAACATATCTCAAGACATCTGACTGTG AAACGACAGCATGTCCAGGAAGAGGTTCCATCCCTGTGCTTCCCTGAACATTTGAGCCTA CTAAGATAAAAAGGTGGGGCACTGGTCTTCTTGGTGTGCGCCATCACATAAGTCGGAAAAG TGACTTTTTGGTGGATGCCTGCTGAAACTGTGGATCCTTAGGATTAAGTAAATACAGGGT TGCTTGGGAAAAGGCCAAGTCCCGTGGCGCGATGGGCGACCTTGTTGATTTTTATC AGCTACACCCTTAGGGTTCACATGCTAGAACATTGGTGGGGTGTCCCTCGGTCCT TGGTGCCATTGCTGGCTTATTCAAACCTATTAAGCTGGTGTTCCTTTGGTTA AATTCTTGGTGGCATAAAGGCCTTTTTGGACAAGGAGGGAAGGGCCCTTATAGACCTTT ACAGAGTTCCTGACGGCCCTGTTTTGGACCTTCTCCAAAAGCACAGTTGCCTTCTT CTTCGGGGCAAGATTTCCCAACTCCCTGCGCCCATGTCAAACCTTTG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_012189
<b>Insert Size:</b>	2500 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_012189.2</a></u> , <u><a href="#">NP_036321.2</a></u>
<b>RefSeq Size:</b>	2333 bp
<b>RefSeq ORF:</b>	1482 bp
<b>Locus ID:</b>	26256
<b>UniProt ID:</b>	<u><a href="#">O75952</a></u>
<b>Cytogenetics:</b>	18q11.2
<b>Domains:</b>	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]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest protein isoform (a). CCDS Note: This CCDS representation is supported by protein evidence in PMIDs 11820818 and 16139264.