

Product datasheet for **SC110367**

CABYR (NM_138643) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CABYR (NM_138643) 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>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_138643, the custom clone sequence may differ by one or more nucleotides

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ATGGAAAAATCTACAGACACAGACGAGGACAATGTAACCAGAACAGAATATAGTGACAAAACCCAGT
TTCCATCAGTTTATGCTGTGCCAGGCACTGAGCAAACGGAAGCAGTTGGTGGTCTTTCTTCCAAACCAGC
CACCCCTAAGACTACTACCCACCCTCATCACCTCCAACAGCTGTCTCACCAGAGTTTGCTACGTC
CCAGCTGACCCAGCTCAGCTTGCTCAGATGTTAGCAATGGCAACAAGTGAACGAGGACAACCACCAC
CATGTTCTAACATGTGGACCCTTTATTGTCTAACTGATAAGAATCAACAAGGTCACCCATCACGCCACC
TGCACCTGGGCCTTTTCCCAAGCAACCCTCTATTTACCTAATCCTAAGGATCCACAGTTTCAGCAGCAT
CCACAAAAGTCACTTTTCCAATTATGTGATGGGCGACACCAAGAAGACCAGTGCCCCACCTTTTATCT
TAGTAGGCTCAAATGTTCAAGGACACAGGGATGGAAACCTCTTCTGGACATGCTGTCGTTTCACAGTC
AGATGCTTGAGATATGTTGCAATGCAAGTGCCATTGCTGTTCCCTGCAGATGAGAAATACCAGAAACAT
ACCCTAAGTCCCCAGAATGCTAATCCTCCAAGTGGACAAGATGTCCCAGGCCAAAAAGCCCTGTTTTC
TTTCTGTTGCTTTCCAGTAGAAGATGTAGCTAAAAAAGTTCCAGGATCTGGTGACAAATGTGCTCCCTT
TGGAAGTACGGTATTGCTGGGGAGGTAACCGTGACTACTGCTCACAACGTGCGAAAGCAGAACTGAA
AACTGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_138643 unedited AAAGGGGGTTCAAAATTGTATACGACTCATATAGGCGGCCGCAAATTCGCACGAGGAAA AACATCTGTAGAATCTAAATACCTACCCAGNATGGAAAAATCTACAGACACAGACGAGGA CAATGTAACCAGAACAGAATATAGTGACAAAACCCAGTTTCCATCAGTTTATGCTGT GCCAGGCACTGAGCAAACGGAAGCAGTTGGTGGTCTTTCTTCAAACCAGCCACCCTAA GACTACTACCCACCCTCATCACCACCTCCAACAGCTGTCTCACCAGAGTTTGCCTACGT CCCAGCTGACCCAGCTCAGCTTGCTCAGATGTTANGTAAAGTTTCATCTATTCATTC TGATCAATCTGATGTGTTAATGGTGGATGTGGCACCAGTATGCCTGTTGTTATCAAAGGA GTGCCAAACTCAAAGGCTGGTGAAAAAGTCAAGGGGGCGGCTCCCTTTGGGGGTCGGG AAAGGTTCTAAAAATGCAGTTGGGAAAAACAAAAATTTGGCCATGAAAAATGGGGTTTCAA ACCCAAAAAAGAGGGGGTAACACAAAAAGGGTTTTTCTTATAACCCCTTGGGGGG GAAAAAACCCTCTTTTTTTAAAAAACCCTTGAGGGGATTTTTTTGGGG GGTTATTTGGGGTGTCTCAAAGCGTCTTTTTTATTATAGGGGCTTTTATAAAAA AAAAAACCCTCTCCTCCTCAAGAAAGAGAAGAGATTTTTTTTTTTTTTTCC CCCCCGGCGCCCAAAAAAATATTTTT
Restriction Sites:	ECoRI-NOT
ACCN:	NM_138643
Insert Size:	4000 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).
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:	<ol style="list-style-type: none"> 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:	<u>NM_138643.1</u> , <u>NP_619584.1</u>
RefSeq Size:	1153 bp
RefSeq ORF:	846 bp
Locus ID:	26256
UniProt ID:	<u>O75952</u>
Cytogenetics:	18q11.2

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 (5) lacks two internal exons in the 5' region, which results in a downstream translation start codon, and has an alternate splice site in the coding region, which results in a downstream translation stop codon, compared to variant 1. The resulting isoform (d) has a shorter N-terminus and a shorter and distinct C-terminus, compared to isoform a.