

Product datasheet for SC309727

CABYR (NM_138644) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CABYR (NM_138644) 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)
Fully Sequenced ORF:	>SC309727 representing NM_138644. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC CGGATCGCC
ATGATTTCTTCAAAGCCAGACTTGTCGTACCCTATGGCCTCAAGACTCTGCTCGAGGGAATTAGCAGA
GCTGTTCTCAAACCAACCCATCAAACATCAACCAAGTTTGCAGCAGCTTATTTTCAAGAACTTACTATG
TATAGAGGGAATACTACTATGGATATAAAAGATCTGGTTAAACAATTTTCATCAGATTAAGTAGAGAAA
TGGTCAGAAGGAACGACACCACAGAAGAAATTAGAATGTTTAAAAGAACCAGGAAAAACATCTGTAGAA
TCTAAAGTACCTACCCAGATGAAAAATCTACAGACACAGACGAGGACAATGTAACCAGAACAGAATAT
AGTGACAAAACCCAGTTTCCATCAGTTTATGCTGTGCCAGGCACTGAGCAAACGGAAGCAGTTGGT
GGTCTTTCTTCAAACCCAGCCACCCTAAGACTACTACCCACCCTCATCACACCTCCAACAGCTGTC
TCACCAGAGTTTGCCCTACGTCCCAGCTGACCCAGCTCAGCTTGCTGCTCAGATGTTAGCAATGGCAACA
AGTGAACGAGGACAACCACCACCATGTTCTAACATGTGGACCCTTTATTGTCTAACTGATAAGAATCAA
CAAGGTCACCCATCACCGCCACCTGCACCTGGGCCTTTTCCCAAGCAACCCCTCTATTTACCTAATCCT
AAGGATCCACAGTTTTCAGCAGCATCCACAAAAGTCACTTTTCCAATTAATGTGATGGGCGACCCAAG
AAGACCAGTGCCCAACCTTTTATCTTAGTAGGCTCAATGTTT CAGGAAGCACAGGGATGGAACCTCTT
CCTGGACATGCTGTCGTTTACAGTCAGATGTCTTGAGATATGTTGCAATGCAAGTGCCCATTTGCTGT
CCTGCAGATGAGAAATACCAGAAACATACCCTAAGTCCCAGAATGCTAATCCTCAAGTGACAAAGAT
GTCCCAGGCCAAAAGCCCTGTTTTCTTTCTGTTGCTTTCCAGTAGAAGATGTAGCTAAAAAAGT
TCAGGATCTGGTGACAAATGTGCTCCCTTTGGAAGTTACGGTATTGCTGGGGAGGTAACCGTGACTACT
GCTCACAACGTCGAAAGCAGAAACTGAAAACTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:	□
ACCN:	NM_138644
Insert Size:	1140 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:	<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:	NM_138644.2
RefSeq Size:	1298 bp
RefSeq ORF:	1140 bp
Locus ID:	26256
UniProt ID:	O75952
Cytogenetics:	18q11.2
MW:	41.1 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) has an alternate 5' UTR exon and an alternate splice site in the coding region, which results in a downstream translation stop codon, compared to variant 1. The encoded isoform (c) is shorter and has a distinct C-terminus compared to isoform a. Variants 3 and 7 encode the same isoform c.</p>