

Product datasheet for **SC123625**

CABP (CABP1) (BC015006) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CABP (CABP1) (BC015006) Human Untagged Clone
Tag:	Tag Free
Symbol:	CABP
Synonyms:	CALBRAIN; HCALB_BR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for BC015006 edited
 GGTGGTGCCTGTAGACCAAGCTGCTCAGGAGGCTGAGGCAGGAGAATCACTTGAATCCG
 GGAGTCAGAGGTTGCACTGAGCCAAGATCACGCCACTGCACTCCAGCCTGGGCGACAGAG
 TGCACTAGCCACACAAAAAGGAGGGGGCATGTTTCCACTTTGCCCCAGTCCCCACCT
 CTCACACCCTGCCTGCTTCGTTTATGTCAGCAATGGCACCTGCATGTGCAACCTCTGGTC
 TGGCAGACCAGCCAAGCCTGGTCTCCATGCTGCCAGCTCCGATTGCCCTCACTGCCTTCC
 AGCGGGGATCTGGCTGGGTAGGACAAGTCTGTTTGGGAGCTGGGAGGAATGACTTAGCC
 CTGGAGATTGACTGAATTGGGAGGTTGGGAGCATTTTGGGAAAGGATGTTGTCTCATTAG
 GCTCTGAGTGAACACTTCCCATTTGGTGAGAATAGAAGCCCCCGCTGCCCTGTCTCTTC
 ATGCACTTGGGTGTGTGATTCTGTGCATATGTATGTGCCAGTGCGTGCGTGTGTGTGT
 GTGTGTGCGCATGTGCCACACAGAGGGCATCACATTCAGCTCTCCCGGAACCACCATTT
 CCGTCAAGGATTGGAGACTCTGTCTGTTGGACCAATTTGATGCCTGTGCACGCTCAGGGC
 TCTCTGAACCCGCTCCTTGACTCTCAGGGTCCCCTCTTGCGAAAGCCCTCCCGGGAC
 CAGGAGCCAGGCTGGGCAGGGAGGTGACACCCTGCCTCTCTTTTGCATTTGCTTGGTGCT
 GGCTGAAGATGTGCCAGGAGGAACAGACCAGCTACATGGTGGTGACAGCAGCGAGGAGG
 GGCTGGCGGCTGACGCCGAGCTCCCGGACCGCTCCTGATGCTGGCCAGAACTGCGCAG
 TCATGCACAACCTGCTGGGCCCTGCCTGCATTTTCTGCGCAAGGGCTTCGCTGAGAACA
 GGCAGCCTGATAGACTACTGCGACCAGAGGAAATTGAAGAGCTCCGAGAGGCCTTCAGAG
 AATTGACAAGGACAAGGATGGCTACATCAACTGCCGGGATCTGGGCAACTGCATGCGCA
 CCATGGGTACATGCCACCGAGATGGAGCTCATCGAACTGTCCAGCAGATCAACATGA
 ACCTGGGTGGCCATGTAGATTTTGTGACTTCTGAGGCTAATGGGGCTAAACTCCTGG
 CAGAGACAGCAGATATGATTGGTGTAAAGGAAGTGGAGATGCTTCCGAGAGTTTGACA
 CCAATGGTGATGGGAAATAAGCACCAAGTGGAGTGGAGAGGCTATGAGGAAGCTCCTGG
 GTCATCAGGTGGGACACCGAGACATAGAGGAAATTATCCGAGATGTGGACCTCAATGGGG
 ATGGACGAGTGGACTTTGAAGAGTTTGTCCGGATGATGTCCCGCTGAGGCCGCGAGGGCC
 CCTCCAGGACTGCCAAGCTCCAAAGCGGGGCTAAGAGGAGCTAGAGCTTGCTCACCC
 GCTGTAGCCGCGAGAGCCAGGATGTACTGGCGGATGGGGCTGCCTGCACCCCGGGGA
 GGCGCCACCCCGGACCCCAACCTCCGCACTGTAAAGACTAACTCCTGCAACTGGAA
 AGCGGGGGCGCCCGACGAGGAGGCCACCGTGCCAAGCCGGCAGAGGTATGCCAGGC
 GCCAAGGGCCATGTGCCAGCTGCTGCTGGCTGGGTGGGCCAGGAGCCCGCCAGCAGAC
 CCCACACAGCATGTCCGCCCCAGGGCAAAGCCTCCACCTTCGCTCTGCGCCCGTCCCAG
 CTCGCCTCAGCCCTGTTATCTCAGAACCAATAAAAATATTTCCAAGAGCAAAAAAAAAA
 AAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for BC015006 unedited
 AAACGTACAAATTTGTNATACGACTTCACTATAGGGCCGCGGATTTCGGCACGAGGG
 GTGGGTGCCTGTAGACCAAGCTGCTCAGGAGGCTGAGGCAGGAGAATCACTTGAATCCGG
 GAGTCAGAGGTTGCACTGAGCCAAGATCACGCCACTGCACTCCAGCCTGGGCGACAGAGT
 GCACTAGCCACACAAAAAGGAGGGGGCATGTTTCCACTTTGCCCCAGTCCCCACCTC
 TCACACCCTGCCTGCTTCGTTTATGTCAGCAATGGCACCTGCATGTGCAACCTCTGGTCT
 GGCAGACCAGCCAAGCCTGGTCTCCATGCTGCCAGCTCCGATTGCCCTCACTGCCTTCCA
 GCGGGGATCTGGCTGGGTAGGACAAGTCTGTTTGGGAGCTGGGAGGAATGACTTAGCCC
 TGGAGATTGACTGAATTGGGAGGTTGGGAGCATTTTGGGAAAGGATGTTGTCTCATTAGG
 CTCTGAGTGAACACTTCCCATTTGGTGAGAATAGAAGCCCCCGCTGCCCTGTCTCTTCA
 TGCATTTGGGTGTGTGATTCTGTGCATATGTATGTGCCAGTGCGTGCGTGTGTGTGTG
 TGTGTGCGCATGTGCCACACAGAGGGCATCACATTCAGCTCTCCCGGAACCACCATTTT
 CGTCAAGGATTGGAGACTCTGTCTGTTGGACCAATTTGATGCCTGTGCACGCTCAGGGCT
 CTCTGAACCCCGCTCCTTGACTCTCAGGGTCCCCTCTTGCGAAAGCCCTCCCGGGACC
 AGNAGCCAGGCTGGGCAGGGAGGTGACACCCTGCCTCTCTTTTGCATTTGCTTGGTGCTG
 GCTGAAGATGTGCCANNAGAGAACAGACCAGCTACATGGTGGTGANACANNCNAGAGGG
 GCTGGCNGCTGACC

Restriction Sites:	Please inquire
ACCN:	BC015006
Insert Size:	1868 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:	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>BC015006.1</u>
RefSeq Size:	1868 bp
Locus ID:	9478
Cytogenetics:	12q24.31
Gene Summary:	Calcium binding proteins are an important component of calcium mediated cellular signal transduction. This gene encodes a protein that belongs to a subfamily of calcium binding proteins which share similarity to calmodulin. The protein encoded by this gene regulates the gating of voltage-gated calcium ion channels. This protein inhibits calcium-dependent inactivation and supports calcium-dependent facilitation of ion channels containing voltage-dependent L-type calcium channel subunit alpha-1C. This protein also regulates calcium-dependent activity of inositol 1,4,5-triphosphate receptors, P/Q-type voltage-gated calcium channels, and transient receptor potential channel TRPC5. This gene is predominantly expressed in retina and brain. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2012]