

Product datasheet for **SC117474**

CABP (CABP1) (NM_004276) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CABP (CABP1) (NM_004276) 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)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_004276, the custom clone sequence may differ by one or more nucleotides

ATGGGCAACTGTGTCAAGTATCCACTGAGAAATCTCTCAAGGAAGGATAGATCACTGCGACCAGAGGAAA
TTGAAGAGCTCCGAGAGGCCTTCAGAGAATTCGACAAGGACAAGGATGGCTACATCAACTGCCGGGATCT
GGGCAACTGCATGCGACCATGGGCTACATGCCACCGAGATGGAGCTCATCGAACTGTCCAGCAGATC
AACATGAACCTGGGTGGCCATGTAGATTTTGATGACTTCGTGGAGCTAATGGGGCCTAACTCCTGGCAG
AGACAGCAGATATGATTGGTGTAAGGAAGTGCAGATGCTTCCGAGAGTTTGACACCAATGGTGATGG
GGAAATAAGCACCAGTGAGCTGCGAGAGGCTATGAGGAAGCTCCTGGGTCATCAGGTGGGACACCGAGAC
ATAGAGGAAATTATCCGAGATGTGGACCTCAATGGGGATGGACGAGTGGACTTTGAAGAGTTGTCCGGA
TGATGTCCCGCTGA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_004276 unedited <pre> TTGTAATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGGACCCAGTTCGCGG AGGCCCCGTGTGCCGGCCGCGCCGCGAGAGGAGGGCGCGCGGGGAGCCAGCGTGTGCTC CCCCAGGCGCACTGCAGGCCCGGGAGGCGCTGCCGGCCGCGCGTCCCGACCTTCGCCG TCGTGCGCGCTGCCGCCGGCCCGGGCGGGATGGGGAGGAACGGGGACTGTCCCGGCG CTCGGCCCTCCGGGGCTCTCTGCGAGCCCGGGCCGCGGGGACTCCGTTCAGCCGCCGCG TCCGAGGCGGACCCGTTCTCCACCGGCTGCGCCCCATGCTCAGCTCCGCCTTTGGCCAG GATAGATCACTGCGACCAGAGGAAATTGAAGAGCTCCGAGAGGCCTTCAGAGAATTCGAC AAGGACAAGGATGGCTACATCAACTGCCGGATCTGGGCAACTGCATGCGCACTATGGGC TACATGCCACCGAGATGGAGCTCATCGAACTGTCCAGCAGATCAACATGAACCTGGGT GGCCATGTAGATTNTGATGACTTCGTGGAGCTAATGGGGCTAACTCCTGGCAGAGACA GCAGATATGAATTGGTGTAAAGGAACTGCGAGATGCTTCCGAGAGTTTGACACCAATG GGTGATGGGGGAAATAAGCACCAGTGAGCTGCGAGAGGCTATGANGAAGCTCCTGGGTCA TCAGGTGGGACACCGAGACATAGAGGAAATTATCCGAGATGTGGACCTCATGGGGGATGG ACGAGTGGACTTTGGAAAAGTTTGTNCGNAGATGTCCNGCTGAGGCCGCGAGGCCCTN CAGNACTGCCAGCTCCCAAGCGGGCTAANAGAGCTAGAGCTGGCTCAC </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_004276
Insert Size:	3220 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:	NM_004276.3 , NP_004267.2
RefSeq Size:	1082 bp
RefSeq ORF:	504 bp
Locus ID:	9478
UniProt ID:	Q9NZU7
Cytogenetics:	12q24.31
Domains:	EFh

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]

Transcript Variant: This variant (2) has an alternate 5' exon, as compared to variant 3. The encoded isoform 2 has a distinct and shorter N-terminus, as compared to isoform 3.