

Product datasheet for **RC206637**

CABP (CABP1) (NM_001033677) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CABP (CABP1) (NM_001033677) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CABP1
Synonyms: CALBRAIN; HCALB_BR
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC206637 representing NM_001033677
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCGGCGGACGGGGCCGATTTAAGCGGCCGGGGACGGCGCCCGCTCCAGCGCTCTCGGGC
 TTGGCTCCCGCCGGGAGCCCGTTCTCTGCCCGCCGGGGCCCGCGCCGCGCCACCGCGCCGCCCC
 GCCGGCCATGCGAGCGCGGGCCCGCCGCGATGAGCTCGCACATCGCCAAAAGCGAGTCAAGACGTGC
 CTGCTGAAGGCGGCGGCGGCGGGCGAGCGGGGCGAGCCGGGCTCCCGCCACGGCCCTGCCCGGACC
 CGGGGCTGCCTAGCCCGGGCTACCCGGCTCTGCCCGGCGACGCCGAGTCGTCCGGGGACCCAGTTC
 GCGGAGGCCCTGTGCCGGCCGGCGCCGCGAGAGGAGGGCGCGGGGGAGCCAGCGTGTCTCCCCGG
 GCGCACTGCAGGCCCGGGAGGCGCTGCCGGCCGGCGTCCCGACCTTCGCCGTCGTCCCGCTGCCG
 CGGCCCGGGCGGGATGGGGAGGAACGGGGACTGTCCCGGGCGCTCGGCTCCGGGGCTCTCTGCGAGC
 CCGGGCCCGGGGACTCCGTTCCAGCCGCCGCTCCGAGGCGGACCCGTTCTCCACCGGCTGCCGCC
 ATGCTCAGCTCCGCTTTGGCCAGGATAGATCACTGCGACCAGAGGAAATTGAAGAGCTCCGAGAGGCC
 TCAGAGAATTCGACAAGGACAAGGATGGCTACATCAACTGCCGGATCTGGGCACTGCATGCGCACC
 GGGTACATGCCACCGAGATGGAGCTCATCGAACTGTCCAGCAGATCAACATGAACCTGGGTGGCCAT
 GTAGATTTTGTGACTTCGTGGAGCTAATGGGGCTAAACTCCTGGCAGAGACAGCAGATATGATTGGT
 TAAAGGAAGTGCAGATGCTTTCCGAGAGTTTACACCAATGGTGTGGGAAATTAAGCACCAGTGA
 GCTGCGAGAGGCTATGAGGAAGCTCCTGGGTGATCAGGTGGGACACCGAGACATAGAGGAAATTA
 CCGAGATGTGGACCTCAATGGGGATGGACGAGTGGACTTTGAAGAGTTTGTCCGGATGATGTCCCGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC206637 representing NM_001033677
 Red=Cloning site Green=Tags(s)

MGGDGAAFKRPDGLRVLGLSRREPRSLPAGGPAPRRTAPPPPGHASAGPAAMSSHIKSESKTS
 LLKAAAAAASGGSRAPRHGPARDPGLPSRRLPGSCPATPQSSGDPSSRRPLCRPAPREGARGSQRVLP
 AHCRPREALPAAASRPSPSSPLPPARGRDGEERGLSPALGLRGLSRARGRSDVPAASEADPFLHRLRP
 MLSSAFGQDRSLRPEEIEELREAFREFDKDKDGYINCRDLGNCMRMTMGYPTEMELIELSQINMNLGGH
 VDFDDFVELMGPKLLAETADMIGVKELRDAFREFDNGDGEISTSELREAMRKLGLGHQVGHDRDIEEIIIRD
 VDLNGDGRVDFEEFVRMMSR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

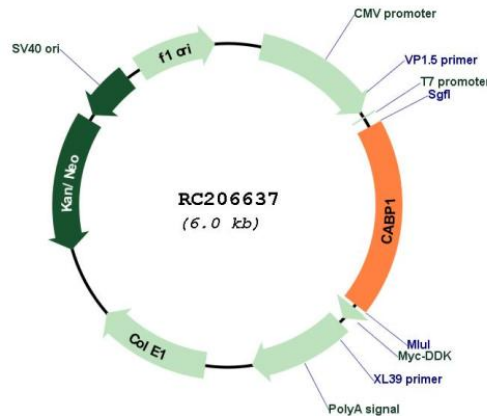
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001033677

ORF Size:	1110 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_001033677.1 , NP_001028849.1
RefSeq Size:	1627 bp
RefSeq ORF:	1113 bp
Locus ID:	9478
UniProt ID:	Q9NZU7
Cytogenetics:	12q24.31
MW:	39.7 kDa
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]