



## Mouse CREB Signaling Primer Library

**Catalog No:** MCREB-1  
**Supplier:** RealTimePrimers  
**Lot No:** XXXXX  
**Supplied as:** solid  
**Stability:** store at -20°C

### Description

Contains 88 primer sets directed against CREB signaling genes and 8 housekeeping genes. Provided in a 96-well microplate (20 ul - 10 uM). Perform up to 100 PCR arrays (based on 20 ul assay volume per reaction). Just add cDNA template and SYBR green master mix.

### Gene List:

- Akt1 v-akt murine thymoma viral oncogene homolog 1
- Atf1 activating transcription factor 1
- Atf4 activating transcription factor 4 (tax-responsive enhancer element B67)
- Cacna1C calcium channel, voltage-dependent, L type, alpha 1C subunit
- Cacna1F calcium channel, voltage-dependent, L type, alpha 1F subunit
- Cacna1G calcium channel, voltage-dependent, T type, alpha 1G subunit
- Cacna1H calcium channel, voltage-dependent, T type, alpha 1H subunit
- Cacna1S calcium channel, voltage-dependent, L type, alpha 1S subunit
- Calm1 calmodulin 1 (phosphorylase kinase, delta)
- Calm2 calmodulin 2 (phosphorylase kinase, delta)
- Calm3 calmodulin 3 (phosphorylase kinase, delta)
- Camk2A calcium/calmodulin-dependent protein kinase II alpha
- Camk2B calcium/calmodulin-dependent protein kinase II beta
- Camk2D calcium/calmodulin-dependent protein kinase II delta
- Camk4 calcium/calmodulin-dependent protein kinase IV
- Creb1 cAMP responsive element binding protein 1
- Crebbp CREB binding protein
- Crem cAMP responsive element modulator
- Egfr epidermal growth factor receptor
- Elk1 ELK1, member of ETS oncogene family
- Ep300 E1A binding protein p300
- Flt1 fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular permeability factor receptor)
- Gnai1 guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 1
- Gnai2 guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 2
- Gnai3 guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 3
- Gnaq guanine nucleotide binding protein (G protein), q polypeptide
- Gnas GNAS complex locus
- Gnb1 guanine nucleotide binding protein (G protein), beta polypeptide 1
- Gnb2 guanine nucleotide binding protein (G protein), beta polypeptide 2
- Gnb3 guanine nucleotide binding protein (G protein), beta polypeptide 3
- Gng2 guanine nucleotide binding protein (G protein), gamma 2
- Grb2 growth factor receptor-bound protein 2
- Gria1 glutamate receptor, ionotropic, AMPA 1
- Gria2 glutamate receptor, ionotropic, AMPA 2
- Gria3 glutamate receptor, ionotropic, AMPA 3
- Gria4 glutamate receptor, ionotropic, AMPA 4
- Griq2 glutamate receptor, ionotropic, kainate 2
- Grm1 glutamate receptor, metabotropic 1
- Grm2 glutamate receptor, metabotropic 2
- Grm3 glutamate receptor, metabotropic 3
- Grm4 glutamate receptor, metabotropic 4
- Grm5 glutamate receptor, metabotropic 5
- Grm7 glutamate receptor, metabotropic 7
- Grm8 glutamate receptor, metabotropic 8
- Gtf2B general transcription factor IIB
- Hras v-Ha-ras Harvey rat sarcoma viral oncogene homolog
- Il2 interleukin 2
- Il6 interleukin 6 (interferon, beta 2)
- Itpr1 inositol 1,4,5-trisphosphate receptor, type 1
- Itpr2 inositol 1,4,5-trisphosphate receptor, type 2



- Itpr3 inositol 1,4,5-trisphosphate receptor, type 3
- Kdr kinase insert domain receptor (a type III receptor tyrosine kinase)
- Kit v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog
- Map2K1 mitogen-activated protein kinase kinase 1
- Map2K2 mitogen-activated protein kinase kinase 2
- Map2K3 mitogen-activated protein kinase kinase 3
- Map2K4 mitogen-activated protein kinase kinase 4
- Map2K6 mitogen-activated protein kinase kinase 6
- Mapk1 mitogen-activated protein kinase 1
- Mapk3 mitogen-activated protein kinase 3
- Met met proto-oncogene (hepatocyte growth factor receptor) Pik3Ca phosphoinositide-3-kinase, catalytic, alpha polypeptide
- Pik3Cb phosphoinositide-3-kinase, catalytic, beta polypeptide
- Pik3Cd phosphoinositide-3-kinase, catalytic, delta polypeptide
- Pik3R1 phosphoinositide-3-kinase, regulatory subunit 1 (alpha)
- Pik3R2 phosphoinositide-3-kinase, regulatory subunit 2 (beta)
- Plcb1 phospholipase C, beta 1 (phosphoinositide-specific)
- Plcb2 phospholipase C, beta 2
- Plce1 phospholipase C, epsilon 1
- Plcg1 phospholipase C, gamma 1
- Plcg2 phospholipase C, gamma 2 (phosphatidylinositol- specific)
- Polr2A polymerase (RNA) II (DNA directed) polypeptide A, 220kDa
- Polr2B polymerase (RNA) II (DNA directed) polypeptide B, 140kDa
- Polr2C polymerase (RNA) II (DNA directed) polypeptide C, 33kDa
- Prkaca protein kinase, cAMP-dependent, catalytic, alpha
- Prkacb protein kinase, cAMP-dependent, catalytic, beta
- Prkar1A protein kinase, cAMP-dependent, regulatory, type I, alpha (tissue specific extinguisher 1)
- Prkar2A protein kinase, cAMP-dependent, regulatory, type II, alpha
- Prkar2B protein kinase, cAMP-dependent, regulatory, type II, beta
- Prkca protein kinase C, alpha
- Prkcb protein kinase C, beta
- Prkcd protein kinase C, delta
- Prkce protein kinase C, epsilon
- Prkcg protein kinase C, gamma
- Prkcz protein kinase C, zeta
- Raf1 v-raf-1 murine leukemia viral oncogene homolog 1
- Sos1 son of sevenless homolog 1 (Drosophila)
- Tgfb1 transforming growth factor, beta 1
- Actb Actin, beta
- B2M Beta-2-microglobulin
- Gapdh Glyceraldehyde-3-phosphate dehydrogenase
- Gusb Glucuronidase, beta
- Hpirt1 Hypoxanthine phosphoribosyltransferase 1
- Pgk1 Phosphoglycerate kinase 1
- Ppia Peptidylprolyl isomerase A
- Rpl13A Ribosomal protein L13a

### Usage

**This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.**