

Product datasheet for **RG207454**

CAMK2D (NM_172127) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CAMK2D (NM_172127) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CAMK2D
Synonyms:	CAMKD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG207454 representing NM_172127
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTTCGACCACAACCTGCACCAGGTTACGGACGAGTATCAGCTTTTCGAGGAGCTTGAAAGGGG
 CATTCTCAGTGGTGAGAAGATGTATGAAAATTCCTACTGGACAAGAATATGCTGCCAAAATTATCAACAC
 CAAAAAGCTTTCTGCTAGGGATCATCAGAACTAGAAAGAGAAGCTAGAATCTGCCGCTTTTGAAGCAC
 CCTAATATTGTGCGACTTCATGATAGCATATCAGAAGAGGGCTTTCCTACTTGGTGTGGATTTAGTTA
 CTGGAGGTGAAGTGTGAAAGACATAGTGGCAAGAGAATACTACAGTGAAGCTGATGCCAGTCATTGTAT
 ACAGCAGATTCTAGAAAGTGTAAATCATTGTACCTAAATGGCAGTTCACAGGGACCTGAAGCCTGAG
 AATTTGCTTTTAGCTAGCAAATCCAAGGGAGCAGCTGTGAAATTTGGCAGACTTTGGCTTAGCCATAGAAG
 TTCAAGGGGACCAGCAGGCGTGGTTTGGTTTTGCTGGCACACCTGGATATCTTTCCAGAAGTTTTACG
 TAAAGATCCTTATGGAAGCCAGTGGATATGTGGGCATGTGGTGCATTCTATATTCTACTTGTGGGG
 TATCCACCCTTCTGGGATGAAGACCAACACAGACTCTATCAGCAGATCAAGGCTGGAGCTTATGATTTTC
 CATCACCAGAATGGGACACGGTGACTCCTGAAGCCAAAGACCTCATCAATAAAATGCTTACTATCAACCC
 TGCCAAACGCATCACAGCCTCAGAGGCACTGAAGCACCCATGGATCTGTCAACGTTCTACTGTTGCTTCC
 ATGATGCACAGACAGGAGACTGTAGACTGCTTGAAGAAATTTAATGCTAGAAGAAAATAAAGGGTGCCA
 TCTTGACAACATAGCTGGCTACAAGGAATTTCTCAGCAGCCAAGAGTTTGTGGAAGAACCATGGAGT
 AAAGGAGTCAACTGAGAGTTCAAATAACAACATGAGGATGAAGATGTGAAAGCAGGAAAGCAAGAGATT
 ATCAAAGTCACTGAACAACGATCGAAGCTATCAACAATGGGGACTTTGAAGCCTACACAAAAATCTGTG
 ACCCAGCCTTACTGCTTTTGAACCTGAAGCTTTGGGTAATTTAGTGAAGGGATGGATTTTACCAGT
 CTACTTTGAAAAATGCTTTGTCCAAAAGCAATAAACCAATCCACACTATTATTCTAAACCCTCATGTACAT
 CTGGTAGGGGATGATGCCGCTGCATAGCATATATTAGGCTCACACAGTACATGGATGGCAGTGGAAATGC
 CAAAGACAATGCAGTCAGAAGAGACTCGTGTGTGGCACCGCCGGGATGGAAGTGGCAGAATGTTTCATT
 TCATCGCTCGGGTCACCAACAGTACCCATCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG207454 representing NM_172127
 Red=Cloning site Green=Tags(s)

MASTTTCTRFTDEYQLFEELGKGAFSVVRRCKIPTGQEYAAKIINTKKLSARDHQKLEREARICRLKH
 PNIVRLHDSISEEGFHLYVFDLVTGGELFEDIVAREYYSEADASHCIQQILESVNHCHLNIGVHRDLKPE
 NLLLASKSKGAAVKLADFLAIEVQGDQQAQWFGFAGTPGYLSPEVLRKDPYGKPVDMWACGVILYILLVG
 YPPFWDEDQHRLYQIKAGAYDFPSPEWDTVTPEAKDLINKMLTINPAKRITASEALKHPWICQRSTVAS
 MMHRQETVDCLKKFNARRKLGAILTTMLATRNFSAAKSLKPKPDGVKESTESSNTTIEDEDVKARKQEI
 IKVTEQLIEAINNGDFEAYTKICDPGLTAFEPEALGNLVEGMDFHRYFENALSKSNKPIHTIILNPHVH
 LVGDAAACIAYIRLTQYMDGSGMPKTMQSEETRVWHRDQKQNVHFHRSQSPTVPIK

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

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_172127.2
RefSeq Size:	4098 bp
RefSeq ORF:	1437 bp
Locus ID:	817
UniProt ID:	Q13557
Cytogenetics:	4q26
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Calcium signaling pathway, ErbB signaling pathway, Glioma, GnRH signaling pathway, Long-term potentiation, Melanogenesis, Neurotrophin signaling pathway, Olfactory transduction, Oocyte meiosis, Wnt signaling pathway
Gene Summary:	<p>The product of this gene belongs to the serine/threonine protein kinase family and to the Ca(2+)/calmodulin-dependent protein kinase subfamily. Calcium signaling is crucial for several aspects of plasticity at glutamatergic synapses. In mammalian cells, the enzyme is composed of four different chains: alpha, beta, gamma, and delta. The product of this gene is a delta chain. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Distinct isoforms of this chain have different expression patterns.[provided by RefSeq, Nov 2008]</p>