

Division of Signal Transduction Therapy

Clone Data Sheet

CaMK1G [1 – 476]

Protein CaMK1G [1 – 476]

Clone number DU 30189

Species Human

Accession number NM_020439.3

Tags N-terminal GST

Bacterially expressed protein

MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFEL
GLEFPNLPYYIDGDVKLTSMAIIRYIADKHNMLGGCPKERAIEISMLE
GAVLDIRYGVSRIAYSKDFETLKVDFLSKLPPEMLKMFEDRLCHKTYLN
GDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIPOIDKY
LKSSKYIAWPLQGWQATFGGGDHPKSDLEVLFOGPLGSMGRKEEDDC
SSWKKQTTNIRKTFIFMEVLGSGAFSEVFLVKQRLTGKLFALKCIKKS
PAFRDSSLENEIAVLKKIKHENIVTLEDIYESTTHYYLVMQLVSGGEL
FDRILERGVYTEKDASLVIQOVLSAVKYLHENGIVHRDLKPENLLYLT
PEENSKIMITDFGLSKMEQNGIMSTACGTPGYVAPEVLAQKPYSKAVD
CWSIGVITYILLCGYPPFYEETESKLFEKIKEGYEYEFESPFWDDISES
AKDFICHLLEKDPNERYTCEKALSHPWIDGNTALHRDIYPSVSLQIQK
NFAKSKWRQAFNAAAVVHMRKLMNLHSPGVRPEVENRPPETQASET
SRPSSPEITITEAPVLDHSVALPALTQLPCQHRRPTAPGGRSLNCLV
NGSLHISSSLVPMHQGSLAAGPCGCCSSCLNIGSKGKSSYCSEPTLLK
KANKKQNFKSEVMVPVKASGSSHCRAQTGVCLIM

Native sequence Amino acids M1 – M476 (end) of human CaMK1G.
Residue M232 of the fusion protein is equivalent to M1 of the native enzyme. The GST tag is located at residues 1 – 220.

Protease cleavage PreScission (LEVLFOG) residues 221 - 228

Cloning sites *Bgl*2 - *Not*1 into *Bam*H1- *Not*1 site of pGEX6P-1

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Nucleotide
sequence of
insert

agatctATGGGTCGAAAGGAAGAAGATGACTGCAGTTCCTGGAAGAAA
CAGACCACCAACATCCGGAAAACCTTCATTTTTATGGAAGTGCTGGGA
TCAGGAGCTTTCTCAGAAGTTTTCTGGTGAAGCAAAGACTGACTGGG
AAGCTCTTTGCTCTGAAGTGCATCAAGAAGTCACCTGCCTTCCGGGAC
AGCAGCCTGGAGAATGAGATTGCTGTGTTGAAAAAGATCAAGCATGAA
AACATTGTGACCCTGGAGGACATCTATGAGAGCACCACCCACTACTAC
CTGGTCATGCAGCTTGTTTCTGGTGGGGAGCTCTTTGACCGGATCCTG
GAGCGGGTGTCTACACAGAGAAGGATGCCAGTCTGGTGATCCAGCAG
GTCCTGTGCGGCAGTGAAATACCTACATGAGAATGGCATCGTCCACAGA
GACTTAAAGCCCGAAAACCTGCTTTACCTTACCCCTGAAGAGAACTCT
AAGATCATGATCACTGACTTTGGTCTGTCCAAGATGGAACAGAATGGC
ATCATGTCCACTGCCTGTGGGACCCAGGCTACGTGGCTCCAGAAGTG
CTGGCCCAGAAACCCTACAGCAAGGCTGTGGATTGCTGGTCCATCGGC
GTCATCACCTACATATTGCTCTGTGGATAACCCCCGTTCTATGAAGAA
ACGGAGTCTAAGCTTTTTCGAGAAGATCAAGGAGGGCTACTATGAGTTT
GAGTCTCCATTCTGGGATGACATTTCTGAGTCAGCCAAGGACTTTATT
TGCCACTTGCTTGAGAAGGATCCGAACGAGCGGTACACCTGTGAGAAG
GCCTTGAGTCATCCCTGGATTGACGGAAACACAGCCCTCCACCGGGAC
ATCTACCCATCAGTCAGCCTCCAGATCCAGAAGAACTTTGCTAAGAGC
AAGTGGAGGCAAGCCTTCAACGCAGCAGCTGTGGTGCACCACATGAGG
AAGCTACACATGAACCTGCACAGCCCGGGCGTCCGCCAGAGGTGGAG
AACAGGCCGCCTGAAACTCAAGCCTCAGAAACCTCTAGACCCAGCTCC
CCTGAGATCACCATCACCGAGGCACCTGTCTGACCACAGTGTAGCA
CTCCCTGCCCTGACCCAATTACCCTGCCAGCATGGCCGCCGGCCCACT
GCCCTGGTGGCAGGTCCCTCAACTGCCTGGTCAATGGCTCCCTCCAC
ATCAGCAGCAGCCTGGTGGCCATGCATCAGGGTCCCTGGCCGCCGGG
CCCTGTGGCTGCTGCTCCAGCTGCCTGAACATTGGGAGCAAAGGAAAG
TCCTCCTACTGCTCTGAGCCCACTCCTCAAAAAGGCCAACAAAAA
CAGAACTTCAAGTCGGAGGTCATGGTACCAGTTAAAGCCAGTGGCAGC
TCCCCTGCCGGGCAGGGCAGACTGGAGTCTGTCTCATTATGtgagcg
gccgc