

Product datasheet for MC205907

Csnk2a2 (NM_009974) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Csnk2a2 (NM_009974) Mouse Untagged Clone
Tag: Tag Free
Symbol: Csnk2a2
Synonyms: 1110035J23Rik; C77789; CK2
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC057862
 CTTGCCCCGCGGGCCCCCGGTCGCCGCCCATGCCCGGCCGCGGGCAGTCGGGCCGGGTCT
 ACGCCGAGGTGAACAGCCTGAGGAGCCGCGAGTACTGGGACTACGAAGCCACGTCGCCGAGCTGGGGTAA
 TCAAGATGATTACCAACTGGTTCGAAAACCTGGTCGGGGCAAGTATAGTGAAGTATTTGAGGCCATTAAC
 ATCACCACAATGAGAGGGTGGTTGTAAAAATTCTCAAGCCAGTGAAGAAAAAGAAGATAAAACGAGAGG
 TTAAGATTCTGGAGAACCCTTCGTGGTGAACAAATATCATTAAAGCTGATTGACACTGTAAAGGACCTGT
 GTCAAAGACACCAGCTTTGGTATTTGAATATATCAATAATACAGATTTTAAAGCAACTCTACCAGATCCTG
 ACTGACTTTGATATCCGGTTTTATGTATGAACTACTTAAAGCTCTGGATTACTGCCACAGCAAGGGAA
 TCATGCACAGGGATGTGAAACCTCACAATGTCATGATAGATCACCAACAAAAAAGCTCCGACTGATTGA
 TTGGGGTCTGGCAGAGTCTATCATCCTGCTCAGGAGTACAATGTTTCGAGTGGCCTCGAGGTAATCAAG
 GGACCAGAGCTCCTTGTGGACTATCAGATGTATGATTATAGCTTGGACATGTGGAGCTTGGGCTGCATGT
 TAGCGAGCATGATATCCGAAAGGAGCCATTCTCCACGGCAGGACAACATGACCAGCTTGTTCGAAAT
 TGCCAAGTTCTGGGGACAGATGAACTATATGGTTATCTGAAGAAGTACCACATAGACCTAGATCCACAC
 TTCAATGATATCCTGGGACAACATTACCGGAAGCGCTGGGAAAACCTTTATCCATAGTGAGAACAGGCACC
 TTGTCAGCCCGGAGGCCCTAGATCTTCTTGACAAGCTCCTGCGGTACGACCATCAACAGAGATTGACCGC
 CAAAGAGGCCATGGAGCACCCATATTTCTACCCGGTGGTGAAGGAGCAGTCCCAGCCTTGTGCTGAGAAC
 ACCGTGCTTTCCAGTGGTCTCACCGCAGCAGTGAAGCCTGGGGAATCGACGGTCTGTTGCGGTTCCCT
 CCACTTTTCCATAAGCAGAACAAGAACCAAAATCAAACGTTTAAACGCGTGTAGCGAGATCAGTCCCAG
 GAGCAGACACAAAATGGTGGCAGGCTTGGCGAACAGGAAGTACACCACCCGAAGGGCAGCCACCACCGT
 AAATCAGACCTCACTTCCGAATGTAAGGTTTACATGCCTTTGGCTTCCCTGTTGACTTCCCTCCGACCC
 AGAAAGCATGGGAAATGTGAAGGTATGAAAAATGGTTGTTGGTACTGTTGCTCCCGTGCCTTGTGAC
 CCATCCCATGGTCGCTGTGCTCCAGCAAACCCCAAGGACTAGCTGACCACAGACTCCACAGACGGGAT
 GGGAGCAGTGTATGGCATGATGGCAGTTACATATTTAAAAAGTATATATATTATTAATAAAACGTT
 TTTAA AAAAAAAA

Restriction Sites: RsrII-NotI



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ACCN:	NM_009974
Insert Size:	1053 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:	<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:	BC057862 , AAH57862
RefSeq Size:	1619 bp
RefSeq ORF:	1053 bp
Locus ID:	13000
UniProt ID:	O54833
Cytogenetics:	8 47.12 cM
Gene Summary:	<p>Catalytic subunit of a constitutively active serine/threonine-protein kinase complex that phosphorylates a large number of substrates containing acidic residues C-terminal to the phosphorylated serine or threonine. Regulates numerous cellular processes, such as cell cycle progression, apoptosis and transcription, as well as viral infection. May act as a regulatory node which integrates and coordinates numerous signals leading to an appropriate cellular response. During mitosis, functions as a component of the p53/TP53-dependent spindle assembly checkpoint (SAC) that maintains cyclin-B-CDK1 activity and G2 arrest in response to spindle damage. Also required for p53/TP53-mediated apoptosis, phosphorylating 'Ser-392' of p53/TP53 following UV irradiation. Can also negatively regulate apoptosis. Phosphorylates the caspases CASP9 and CASP2 and the apoptotic regulator NOL3. Phosphorylation protects CASP9 from cleavage and activation by CASP8, and inhibits the dimerization of CASP2 and activation of CASP8. Regulates transcription by direct phosphorylation of RNA polymerases I, II, III and IV. Also phosphorylates and regulates numerous transcription factors including NF-kappa-B, STAT1, CREB1, IRF1, IRF2, ATF1, SRF, MAX, JUN, FOS, MYC and MYB. Phosphorylates Hsp90 and its co-chaperones FKBP4 and CDC37, which is essential for chaperone function. Regulates Wnt signaling by phosphorylating CTNNB1 and the transcription factor LEF1. Acts as an ectokinase that phosphorylates several extracellular proteins (By similarity).</p> <p>[UniProtKB/Swiss-Prot Function]</p>