

Product datasheet for **SC117289**

Germinal Center Kinase (MAP4K2) (NM_004579) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Germinal Center Kinase (MAP4K2) (NM_004579) Human Untagged Clone
Tag:	Tag Free
Symbol:	Germinal Center Kinase
Synonyms:	BL44; GCK; RAB8IP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene ORF sequence for NM_004579 edited
 CCCGGGATATCGTACGCCACGCGTCCGCAGAGCCACGGGCGCCCGCCCGCCCGCGCC
 GCCCGCGCCGGCTCCGCAGCTCGCGCCCGCCCGCCTGCCGGCCCGCCCGCGCCGGCC
 ATGGCGTGTGCGGGATGTGTCGCTGCAGGACCCGCGGGACCGCTTCGAGCTGTGCAG
 CGCGTGGGGCCGGGACCTATGGCGACGTCTACAAGGCCCGGACACGGTCACGTCCGAA
 CTGGCCCGCTGAAGATAGTCAAGCTAGACCCAGGGGACGACATCAGTCCCTCCAGCAG
 GAAATCACCATCCTGCGTGTGATGCGCCACCCCAATGTGGTGGCTACATTGGCAGCTAC
 CTCAGGAATGACCGCTTGTGGATCTGCATGGAGTTCTGCGGAGGGGGCTCCCTGCAGGAG
 ATTTACCATGCCACTGGGCCCTGGAGGAGCGGAGATTGCCTACGTCTGCCGAGAGGCA
 CTGAAGGGGCTCCACCACCTGCATTCTCAGGGGAAGATCCACAGAGACATCAAGGGAGCC
 AACCTTCTCCTACTCTCCAGGGAGATGTCAAAGTGGCTGACTTTGGGGTGTGAGCGAG
 CTGACAGCGTCTGTGGCCAAGAGGAGGTCTTTCATTGGGACTCCCTACTGGATGGCTCCC
 GAGGTGGTGTGTGGAGCGCAAAGGTGGCTACAATGAGCTATGTGACGTCTGGGCCCTG
 GGCATCACTGCCATTGAGCTGGGCGAGCTGCAGCCCCCTCTGTTCCACCTGCACCCCATG
 AGGGCCCTGATGCTCATGTGCAAGAGCAGCTTCCAGCCGCCAAACTGAGAGATAAGACT
 CGCTGGACCCAGAATTTCCACCACCTTTCTCAAAGTGGCCCTGACCAAGAATCCTAAGAAG
 AGGCCGACAGCAGAGAAGCTCCTGCAGCACCCGTTACGACTCAGCAGCTCCCTCGGGCC
 CTCCTCACACAGCTGCTGGACAAAGCCAGTGACCCCTCATCTGGGGACCCCTCCCCTGAG
 GACTGTGAGCTGGAGACCTATGACATGTTTCCAGACACCATTCCTCCCGGGGCGAGCAC
 GGCCAGCCGAGAGGACCCCTCGGAGATCCAGTTTACCAGGTGAAATTTGGCGCCCA
 CGCAGGAAGGAAACTGACCCACTGAATGAGCCGTGGGAGGAAGAGTGGACACTACTGGGA
 AAGGAAGAGTTGAGTGGGAGCCTGCTGCAGTCCGTCCAGGAGCCCTGGAGGAAAGGAGT
 CTGACTATTCGTCAGCCTCAGAATTCAGGAGCTGGACTCCCCAGACGATACCATGGGA
 ACCATCAAGCGGGCCCGTTCCTAGGGCCACTCCCACCTGACCCCTCCAGCAGAGGAGCCT
 CTGTCCAGTCCCCAGGCCCAACAGCTCCCACCTGCTGCCACGGCCTGGGCCACCATG
 AAGCAGCGGGAGGATCCTGAGAGGTATCCTGCCACGGGCTCCCCCAACTCCCAAGGTG
 CATATGGGCGCCTGCTTCTCAAGGTCTTCAATGGCTGCCCCCTGCGGATCCACGCTGCT
 GTCACCTGGATTCACCCTGTTACTCGGGACCAAGTCTCGGTGGTGGTGGGGCCGAGGAAGGC
 ATCTACACACTCAACCTGCATGAACTGCATGAGGATACGCTGGAGAAGCTGATTTACAT
 CGCTGCTCCTGGCTCTACTGCGTGAACAACGTGCTGCTGCTACTCTCAGGGAAATCCACG
 CACATCTGGGCCATGACCTCCCAGGCCTGTTTGAAGCAGCGGAGGCTACAGCAACAGTT
 CCCTCTCCATCCCACCAACCGCCTCACCCAGCGCATATCCCAGGCGCTTTGCTCTG
 TCCACCAAGATTCTGACACCAAGGCTGCTTGCAGTGTGCTGTGGTGGGAATCCCTAC
 ACGGGTGCACCTTCTGCTGGCCGCCCTGCCACCAGCCTGCTCCTGCTGCAGTGGTAT
 GAGCCGCTGCAGAAGTTTCTGCTGCTGAAGAACTTCTCCAGCCCTTGCCAGCCAGCT
 GGGATGCTGGAGCCGCTGGTGTGGATGGGAAGGAGCTGCCGAGGTGTGTGTTGGGGCC
 GAGGGGCTGAGGGGCCCGGCTGCCCGTCTGTTCCATGTCTGCCCTGGAGGCTGGC
 CTGACGCCCGACATCCTCATCCCACCTGAGGGGATCCCAGGCTCGGCCAGCAGGTGATC
 CAGGTGGACAGGGACACAATCCTAGTCAGCTTTGAACGCTGTGTGAGGATTGTCAACATG
 CAGGGCGAGCCACGGCCACACTGGCACCTGAGCTGACCTTTGATTTCCCATCGAGACT
 GTGGTGTGCTGCAGGACAGTGTGCTGGCCTTCTGGAGCCATGGGATGCAAGGCCGAAGC
 CTGGATACCAATGAGGTGACCCAGGAGATCACAGATGAAACAAGGATCTTCCGAGTGCTT
 GGGGCCACAGAGACATCATCCTGGAGAGCATTCCCACTGACAACCCAGAGGGCGCACAGC
 AACCTTACATCCTCACGGGCCACAGAGCACCTACTAAGAGCAGCGGCCTGTCCAGGG
 GCTCCCCGCCACCCACGCTTAGCTGCAGGCCCTTTGGGCAAGGGGCCCATCCTA
 GACCAGAGGAGCCAGGCCCTGGCCCTGCTGGGGCTGAAGGTGAGAAGTAACTCTGAGAA
 ATGTTTACGGCTGGGGAGGGAGGGGAGCCCCGACGCTCTGCAATAACTGGACCAGGG
 GGAGCTGCTGCTACTCCCCATCCCCG

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_004579 unedited NGTCAGCATTTGTATACGACTCATATAGGGCGGCCGGAATCCCAGGATATCGTCGACCC ACGCGTCCGACAGACCACGGGCGCCCGCCCGCCCGCCCGCCCGCCCGCCCGCCGCTCCGCA GCTCGCGCCCGCCCGCTGCCGGCCCGCCCGCCCGCCCGCCCGCCCGCCCGCCGATG TGTGCTGCAGGACCCGCGGGACCGCTTCGAGCTGCTGCAGCGGTGGGGCCGGGACCT ATGGCGACGTCTACAAGCCCGGACACGGTCACGTCCGAACTGGCCCGCGTGAAGATAG TCAAGCTAGACCCAGGGACGACATCAGCTCCCTCCAGCAGGAAATCACCATCCTGCGTG AGTGCCGCCACCCAATGTGGTGGCTACATTGGCAGCTACCTCAGGAATGACCGTTGT GGATCTGCATGGAGTTCTGCGGAGGGGGCTCCCTGCAGGAGATTTACCATGCCACTGGGC CCCTGGAGGAGCGGCAGATTGCCTACGTCTGCCGAGAGGCACTGAAGGGGCTCCACCACC TGCATTCTCAGGGGAAGATCCACAGAGACATCAAGGGAGCCAACCTTCTCCTCACTCTCC AGGGAGATGTCAAAGTGGCTGACTTTGGGGTGTGAGGCGAGCTGACAGCGTCTGTGGCA AGAGGAGGTCTTTCATTGGGACTCCCTACTGGATGGCTCCCGAGGTGGCTGCTGTGGAGC GCAAAGGTGCTACAATGAGCTATGTGACGTCTGGGCCCTGNGCATCACTGCCATTGAGCT GGGCGAGCTGCAGCCCCCTCTGTTTCACCTGCACCCCATGAGGGCCCTGATGCTCATAGT CGAGAAGCAGTTNCCAGCCGCCCAACTGAGAGATAAGACTCGCTGGACCCAGAATTTCA CCATTTCTAAAAGTCCCTGACCAGAATCTAAGAA
Restriction Sites:	Please inquire
ACCN:	NM_004579
Insert Size:	3000 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:	NM_004579.2 , NP_004570.2
RefSeq Size:	2964 bp
RefSeq ORF:	2463 bp
Locus ID:	5871
UniProt ID:	Q12851
Cytogenetics:	11q13.1
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	MAPK signaling pathway

Gene Summary:

The protein encoded by this gene is a member of the serine/threonine protein kinase family. Although this kinase is found in many tissues, its expression in lymphoid follicles is restricted to the cells of germinal centre, where it may participate in B-cell differentiation. This kinase can be activated by TNF-alpha, and has been shown to specifically activate MAP kinases. This kinase is also found to interact with TNF receptor-associated factor 2 (TRAF2), which is involved in the activation of MAP3K1/MEKK1. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2015]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).