

Product datasheet for **SC126564**

EEF2K (NM_013302) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EEF2K (NM_013302) Human Untagged Clone
Tag:	Tag Free
Symbol:	EEF2K
Synonyms:	CaMKIII; eEF-2K; HSU93850
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 within SC126564 sequence for NM_013302 edited (data generated by NextGen Sequencing)

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ATGGCAGACGAAGATCTCATCTTCCGCCTGGAAGGCGTTGATGGCGGCCAGTCCCCCGA
GCTGGCCGTGATGGTGATTCTGATGGGGACAGCGACGATGAGGAAGTTACTTTCATCTGC
CCCATCACGGATGACCCAAGCTCGAACCAGAATGTCAATCCAAGTTAATAAGTACTAC
AGCAACCTAACAAAAAGTGAGCGGTATAGCTCCAGCGGGTCCGCGGCAAACCTCCTTCCAC
TTCAAGGAAGCCTGGAAGCACGCAATCCAGAAGGCCAAGCACATGCCCGACCCCTGGGCT
GAGTTCACCTGGGAAGATATTGCCACCGAACGTGCTACTCGACACAGGTACAACGCCGTC
ACCGGGGAATGGCTGGATGATGAAGTTCTGATCAAGATGGCATCTCAGCCCTTCGGCCGA
GGAGCAATGAGGGAGTGCTTCCGGACGAAGAAGCTCTCCAACCTCTTGATGCCAGCAG
TGAAGGGAGCCTCCAACACGTGGCGAAGCGCTACATCGAGCCCGTAGACCGGGATGTG
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CGAGTAAGGACCTCTCTGGGAGCCGGCCACCCCTGCTCCGTCCCCTTTCAGAGAACTCT
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ATGGCATCCAGAGACCATGATCATCTAGACAACCACCGGAGTCTGAGAATAGTGGGGAC
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GTATGTGTAGAGAAGTGGAAATCTCCTCAACTCCTCCCGCTCCACCTGCCGAGGGCTTCG
GCCGTGGCCCTGGAAGTGCAAAGGCTTAATGCTCTGGACCTCGAAAAGAAAAATCGGAAG
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GAGAAGGGCGAGGAGTGGGACCAGGAGTGGCTGTCTTCCACCTGGAGCACGCAGCCAAC
CTGGGCGAGCTGGAGGCCATCGTGGCCTGGGACTCATGTACTCGCAGTTGCCTCATCAC
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TTACTAAAGGCCCTGAAGCTGGCGACAGGCAGTCCATGATCCTAGTGGCGCGAGCTTTT
GACTCTGGCCAGAACCTCAGCCCGACAGGTGCCAAGACTGGCTAGAGGCCCTGCACTGG
TACAACACTGCCCTGGAGATGACGGACTGTGATGAGGGCGGTGAGTACGACGGAATGCAG
GACGAGCCCCGTACATGATGCTGGCCAGGGAGGCCGAGATGCTGTTACAGGAGGCTAC
GGGCTGGAGAAGGACCCGAGAGATCAGGGGACTTGATATACCCAGGCAGCAGAGGCAGCG
ATGGAAGCCATGAAGGGCCGACTGGCCAACCAGTACTACAAAAGGCTGAAGAGGCCTGG
GCCAGATGGAGGAGTAA

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Clone variation with respect to NM_013302.3
68 a=>g;223 c=>g;489 c=>a

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_013302 unedited GGACGCGAACTCGGCACCACTAGAGCCATCACTATTGTCTGGAGTGGTGCAGGCCTTGCG AGGCCGCCTGTTGCCAGCCTGGGGCCCCAGGACCAACCCGAGCCCCCTGGACCCCA CACAGCAGTCCTGGCCCTGGAAGATGAGGACGATGTGCTACTGGTCCACTGGCTGAGCC GGGGGTGTGGGTAGCTGAGGCAGAGGATGAGCCACTGCTTACCTGAGGGGACCTGGGGC TCTACTGAGGCCTCTCCCTGGGGCTCTACTCATAGTGGCACAACCTTTTAGAGGTGGG TCAGCCCTCCGGGCCGAGCCTCTGCCAACTCCTCTGGACCCTCGCGGCCGTGGGCAGC GGCTGCCGCGCTGTCTGCCGAGGGAGGACCTTCGCCTCTGCATTTGTCCAGTAACTCT GGCTGTGCCGGATACTGCTTGGGTAAAACGGGCACCCAGGAACATGGCAGACGAAGATC TCATCTCCGCTGGAAGGCGTTGATGGCGGCCAGTCCCCCGAGCTGGCCGTGATGGTG ATTCTGATGGGGACAGCGACGATGAGGAAGTTACTTCATCTGCCCCATCACGGATGACC CAAGCTCGAACAGAATGTCAATTCCAAGGTTAATAAGTACTACAGCAACCTAACAAAA GTGAGCGGTATAGCTCCAGCGGGTCCGCGGCAACTTCTTCACTTCAAGGAAGCC
Restriction Sites:	Please inquire
ACCN:	NM_013302
Insert Size:	4000 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:	<u>NM_013302.2</u> , <u>NP_037434.1</u>
RefSeq Size:	3599 bp
RefSeq ORF:	2178 bp
Locus ID:	29904
UniProt ID:	<u>O00418</u>
Cytogenetics:	16p12.2
Domains:	Alpha_kinase
Protein Families:	Druggable Genome, Protein Kinase

Gene Summary:

This gene encodes a highly conserved protein kinase in the calmodulin-mediated signaling pathway that links activation of cell surface receptors to cell division. This kinase is involved in the regulation of protein synthesis. It phosphorylates eukaryotic elongation factor 2 (EEF2) and thus inhibits the EEF2 function. The activity of this kinase is increased in many cancers and may be a valid target for anti-cancer treatment. [provided by RefSeq, Jul 2008]