OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC209396

THEM4 (NM_053055) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	THEM4 (NM_053055) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	THEM4
Synonyms:	CTMP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC209396 representing NM_053055
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGAGGAGCTGCGCCGCGCGCCTCCGCACGCTGGGGGCTCTGTGCCGGCCGCCAGTAGGCCGGCGCC
TGCCGGGAAGCGAGCCGCGACCCGAGCTGAGGTCATTTTCTTCTGAGGAAGTCATTCTTAAGGACTGTTC
TGTCCCCAACCCCAGCTGGAACAAGGACCTAAGACTGCTCTTTGACCAGTTTATGAAGAAATGTGAAGAT
GGCTCCTGGAAACGTTTGCCTTCATATAAACGTACACCTACTGAATGGATTCAAGACTTCAAAACCCATT
TTCTTGACCCAAAGCTTATGAAAGAAGAACAAATGTCACAGGCCCAGCTCTTCACCAGAAGCTTTGATGA
TGGCCTGGGCTTTGAATACGTGATGTTCTACAATGACATTGAGAAAAGGATGGTTTGCTTATTTCAAGGA
GGCCCTTACCTGGAAGGACCACCTGGATTCATTCATGGAGGTGCCATTGCAACCATGATTGATGCTACTG
TTGGTATGTGTGCAATGATGGCTGGGGGAATCGTCATGACTGCCAATCTCAACATCAATTATAAAAGACC
TATCCCTCTTTGTTCTGTTGTTATGATAAATAGCCAACTTGATAAAGTTGAAGGAAGGAAATTTTTTGTT
TCCTGTAATGTTCAGAGTGTTGATGAGAAGACCCTATACTCAGAGGCGACAAGCTTATTTATAAAGCTGA
ATCCTGCTAAAAGTCTGACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC209396 representing NM_053055
Red=Cloning site Green=Tags(s)

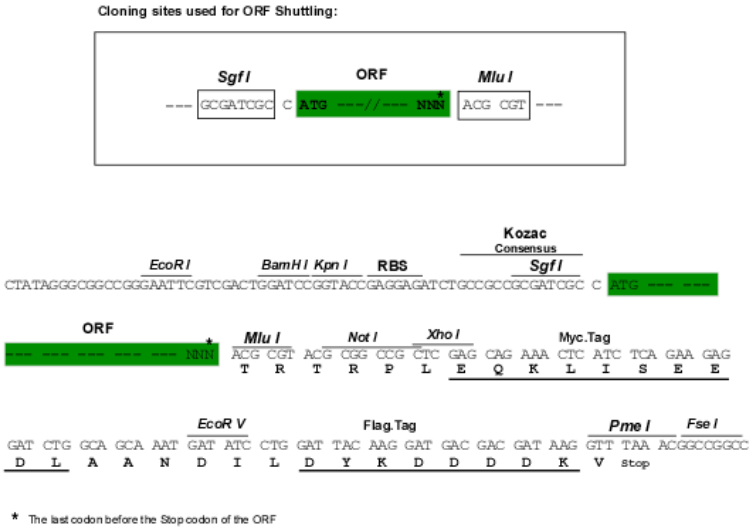
MLRSCAARLRTLGALCRPPVGRRLPGSEPRPELRSFSSEEVILKDCSVPNPSWNKDLRLLFDQFMKKCED
GSWKRLPSYKRTPTEWIQDFKTHFLDPKLMKEEQMSQAQLFTRSFDDGLGFEYVMFYNDIEKRMVCLFQG
GPYLEGPPGFIHGGAIATMIDATVGMCAMMAGGIVMTANLNINYKRPIPLCSVVMINSQLDKVEGRKFFV
SCNVQSVDEKTLYSEATSLFIKLNPAKSLT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2396_c09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_053055

ORF Size: 720 bp

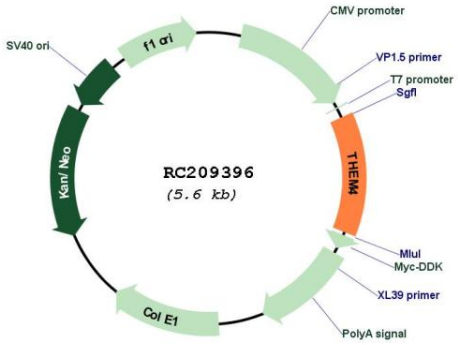
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

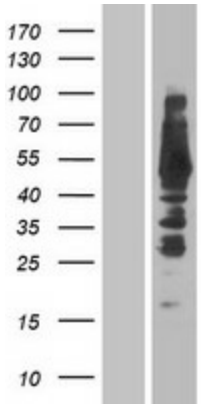
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_053055.2, NP_444283.1
RefSeq Size:	2224 bp
RefSeq ORF:	723 bp
Locus ID:	117145
UniProt ID:	Q5T1C6
Cytogenetics:	1q21.3
Domains:	4HBT
Protein Families:	Druggable Genome
MW:	26.9 kDa
Gene Summary:	Protein kinase B (PKB) is a major downstream target of receptor tyrosine kinases that signal via phosphatidylinositol 3-kinase. Upon cell stimulation, PKB is translocated to the plasma membrane, where it is phosphorylated in the C-terminal regulatory domain. The protein encoded by this gene negatively regulates PKB activity by inhibiting phosphorylation. Transcription of this gene is commonly downregulated in glioblastomas. [provided by RefSeq, Jul 2008]

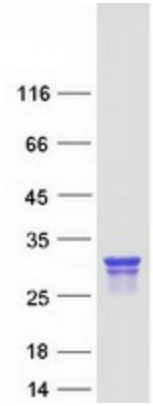
Product images:



Circular map for RC209396



Western blot validation of overexpression lysate (Cat# [LY403283]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209396 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified THEM4 protein (Cat# [TP309396]). The protein was produced from HEK293T cells transfected with THEM4 cDNA clone (Cat# RC209396) using MegaTran 2.0 (Cat# [TT210002]).