

Product datasheet for **RG209396**

THEM4 (NM_053055) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	THEM4 (NM_053055) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	THEM4
Synonyms:	CTMP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209396 representing NM_053055 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGAGGAGCTGCGCCGCGCCTCCGCACGCTGGGGCTCTGTGCCGGCCGCCAGTAGGCCGGCGCC
TGCCGGGAAGCGAGCCGCGACCCGAGCTGAGGTCAATTTCTTCTGAGGAAGTCATTCTTAAGGACTGTTC
TGTCCTCAACCCAGCTGGAACAAGGACCTAAGACTGCTCTTGACCAGTTTATGAAGAAATGTGAAGAT
GGCTCCTGGAAACGTTTGCCTTCATATAAACGTACACCTACTGAATGGATTCAAGACTTCAAACCCATT
TTCTTGACCCAAAGCTTATGAAAGAAGAAACAAATGTCACAGGCCAGCTTTCACCAGAAGCTTTGATGA
TGGCCTGGGCTTTGAATACGTGATGTTCTACAATGACATTGAGAAAAGGATGGTTTGCTTATTTCAAGGA
GGCCCTTACCTGGAAGGACCACCTGGATTCAATTCATGGAGGTGCCATTGCAACCATGATTGATGCTACTG
TTGGTATGTGTGCAATGATGGCTGGGGGAATCGTCATGACTGCCAATCTCAACATCAATTAATAAAGACC
TATCCCTCTTTGTTCTGTTGTTATGATAAATAGCCAACCTGATAAAGTTGAAGGAAGGAAATTTTTGTT
TCCTGTAATGTTGAGAGTGTGATGAGAAGACCCTATACTCAGAGGCGACAAGCTTATTTATAAAGCTGA
ATCCTGCTAAAAGTCTGACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209396 representing NM_053055
 Red=Cloning site Green=Tags(s)

MLRSCAARLRTL GALCRPPVGRRLPGSEPRPELRSFSSEEVILKDCSVPNP SWNKDLRLLFDQFMKKCED
 GSWKRLPSYKRTPTEWIQDFKTHFLDPKLMKEEQMSQAQLFTRSFDDGLGFYVMFYNDIEKRMVCLFQG
 GPYLEGPPGFIHGGA IATMIDATVGM CAMMAGGI VMTANLNIN YKRPIPLCSVVMINSQLDKVEGRKFFV
 SCNVQSVDEKTL YSEATSLFIKLNPAKSLT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



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.

RefSeq: [NM_053055.2](#), [NP_444283.1](#)

RefSeq Size: 2224 bp

RefSeq ORF: 723 bp

Locus ID: 117145

UniProt ID: [Q5T1C6](#)

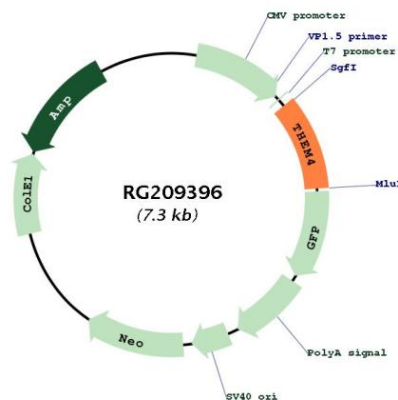
Cytogenetics: 1q21.3

Domains: 4HBT

Protein Families: Druggable Genome

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 RG209396