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Product datasheet for RC223307

MAP3K15 (NM_001001671) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAP3K15 (NM_001001671) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MAP3K15
Synonyms:	ASK3; bA723P2.3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC223307 representing NM_001001671
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCATGTCTCACCCACAGAAATGAAACAGATGCACGAATGGAATTTTACAGCCTCTTCCATAAAGGGA
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC223307 representing NM_001001671
Red=Cloning site Green=Tags(s)

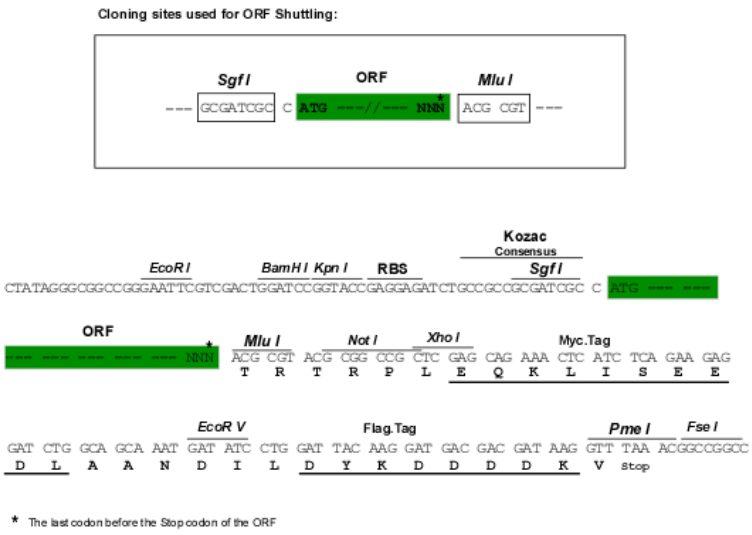
MACLTHRNETDARMEFYSLFHKGNKAGVQWHDLGSLQPLPPRFKRFSCLSLQSSWDYSLSKFDERCCFLY
VHDNSDDFQIYFSTEEQCSRFFSLVKEMITNTAGSTVELEGETDGDTLEYEYDHDANGERVVLGKGTYGI
VYAGRDLSNQVRIAIKEIPERDSRYSQPLHEEIALHKYLKHRNIVQYLGSVSENGYIKIFMEQVPGGSLS
ALLRSKWGPMKEPTIKFYTKQILEGLKYLHENQIVHRDIKGDNVLVNTYSGVVKISDFGTSKRLAGVNPC
TETFTGTLQYMAPEIIDQGPRGYGAPADIWSLGCTIIEMATSKPPFHELGEPQAAMFKVGMFKIHPEIPE
ALSAEARAFILSCFEPDPHKRATTAELLREGFLRQVNKGKKNRIAFKPSEGPRGVVLALPTQGEPMATSS
SEHGSVSPDSDAQPDALFERTRAPRHHLGHLLSVPDESSALEDRGLASSPEDRDQGLFLLRKDSERRAIL
YKILWEEQNQVASNLQECVAQSSEELHLSVGHIKQIIGILRDFIRSPEHRVMATTISKLKVDLDFDSSSI
SQIHLVLFGFQDAVNKILRNHLIRPHWMFAMDNIIRRAVQAAVTILIPELRAHFEPTCETEGVDKDMDEA
EEGYPPATGPGQEAQPHQQHLSLQLGELRQETNRLLEHLVEKEREYQNLLRQTLEQKTQELYHLQLKLKS
NCITENPAGPYGQRTDKELIDWLRLQGADAKTIEKIVEEGYTLSDILNEITKEDLRYLRLRGGLLCRLWS
AVSQYRRAQEASETKDKA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6164_b06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_001001671
ORF Size:	2364 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_001001671.2

RefSeq Size: 4633 bp

RefSeq ORF: 3942 bp

Locus ID: 389840

UniProt ID: Q6ZN16

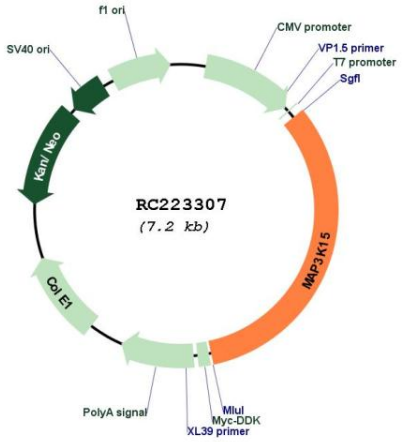
Cytogenetics: Xp22.12

Protein Families: Druggable Genome, Protein Kinase

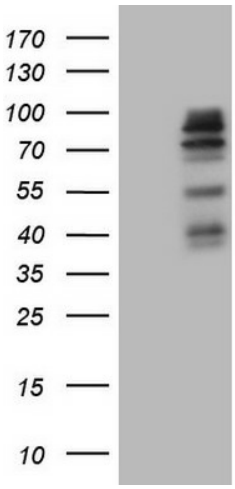
MW: 89.4 kDa

Gene Summary: The protein encoded by this gene is a member of the mitogen-activated protein kinase (MAPK) family. These family members function in a protein kinase signal transduction cascade, where an activated MAPK kinase kinase (MAP3K) phosphorylates and activates a specific MAPK kinase (MAP2K), which then activates a specific MAPK. This MAP3K protein plays an essential role in apoptotic cell death triggered by cellular stresses. [provided by RefSeq, Jul 2010]

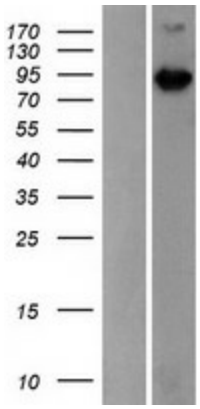
Product images:



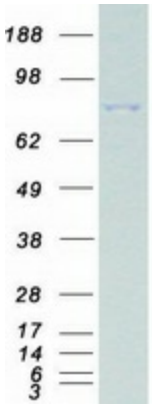
Circular map for RC223307



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MAP3K15 (Cat# RC223307, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MAP3K15 (Cat# [TA808730])(1:2000). Positive lysates [LY400363] (100ug) and [LC400363] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY400363]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223307 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MAP3K15 protein (Cat# [TP323307]). The protein was produced from HEK293T cells transfected with MAP3K15 cDNA clone (Cat# RC223307) using MegaTran 2.0 (Cat# [TT210002]).