

Product datasheet for **RG220337**

MAP3K13 (NM_004721) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAP3K13 (NM_004721) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MAP3K13
Synonyms:	LZK; MEKK13; MLK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG220337 representing NM_004721
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAACCTTCAGGAGCACCTGAGCTGCTCCTCTTCTCCACACTTACCCTTCAGTGAAAGCAAAACCT
 TCAATGGACTACAAGATGAGCTCACAGCTATGGGGAACACCCTTCTCCCAAGCTGCTCGAGGACCAGCA
 GGAAAAGGGGATGGTACGAACAGAGCTAATCGAGAGCGTGCACAGCCCCGTACCACAACAGTGTGACG
 AGCGTAAGTGAGGATTCCAGGGACCAGTTTGAAGACAGCGTTCTTCAGCTAAGGGAACACGATGAATCAG
 AGACGGCGGTGTCTCAGGGGAACAGCAACCGGTGGACGGAGAGAGCACAAAGCGGAACTGAAGACATAAA
 GATTTCAGTTCAGCAGGTGAGCAGTGGCAGTGGTGGTCTTGAAGGACTATTTGGATGCTTAAGGCCCT
 GTATGGAATATCATTGGGAAGGCATATCCACTGATTACAAATGCAGCAGCAAGATACTGGGAAGTGC
 CATTTCAGGAGATCTCAGAGCTGCAGTGGCTGGTGTAGTGGAGCCCAAGGAGCGGTCTTCTGGGCAAGT
 CCGGGCGGAAGAGGTGGCCATCAAGAAAGTGAGAGAACAGAATGAGACGGATATCAAGCATTTCAGGAAG
 TTGAAGCACCCCTAACATCATCGCATTCAAGGGTGTGGTACTCAGGCCCATGTTATTGTATTATCATGG
 AATACTGTGCCCATGGACAACCTACGAGGTCTACGAGCTGGCAGGAAGATCACACCTCGATTGCTAGT
 AGACTGGTCCACAGGAATTGCAAGTGAATGAATTATTTGCACCTCCATAAAATTATTCATCGTGATCTC
 AAATCACCTAATGTTTTAGTGACCCACACAGATGCGGTAATAATTTTCAGATTTTGGTACATCTAAGGAAC
 TCAGTGACAAAAGTACCAAGATGTCATTTGCTGGCAGCGTGCATGGATGGCGCCAGAGGTGATACGGAA
 TGAACCTGTCTCTGAAAAGTTGATATATGGTCTTTGGAGTGGTGTCTTGGGAGCTGCTGACAGGAGAG
 ATCCCTTACAAAGATGTAGATTCTCAGCCATTATCTGGGGTGTGGAAGCAACAGCCTCCACCTTCCAG
 TTCCTTCCACTTGCCCTGATGGATTCAAAATCCTTATGAAACAGACGCTGGCAGAGTAAACCTCGAAACCG
 ACCTTCTTTTCGGCAGACACTCATGCATTTAGACATTGCCTCTGCAGATGTAATTGCCACCCCAAGAA
 ACTTACTTCAAGTCTCAGGCTGAATGGAGAGAAGAAGTGAATAAATTTGAGAAGATCAAAAGTGAAG
 GAACCTGTATACACCGGTTAGATGAAGAACTGATTGCAAGGCGCAGAGAAGAGCTCAGGCATGCGTGGA
 TATTCGTGAACACTATGAGCGGAAGCTTGGAGCGGCAATAATTTATACATGGAATTGAGTGCCATCATG
 CTGCAGCTAGAAATGCGGGAAGGAGCTCATTAAAGCGTGAAGCAAGCAGTGGAAAAGAAGTATCTGGGA
 CCTACAAACGACACCCTGTTGCTCTATCATCCATCCCAATGCCATGGAGAACTCATGAAAAGGAAAGG
 AGTGCCTCACAAATCTGGGATGCAGACCAACGGCCAGACTTGTGAGATCAGAAGGGATCCCCACCACA
 GAAGTGGCTCCCCTGCATCCCCTTTGTCGGGAAGTCCCAAAATGTCCACTTCTAGCAGCAAGAGCCGAT
 ATCGAAGCAAACACGCCACCGCCGAGGGAATAGCAGAGGCAGCCATAGTGACTTTGCCCAATCTTGAA
 AAACCAGCCAGCCAGGAAAATTCACCCATCCCCTTACCTGCACCAAGCTCAATCCCAATACCCTTCT
 CTTTCATACCATAATTCTCTGCAGCAGCAATACCAGCAGCCCCCTCCTGCCATGTCCCAGAGTACCATC
 CCAGACTCAATATGCACGGACAGGACATAGCAACCTGCGCAACAACCTGAGGATTTTCGGCCAGCAGC
 AGCCCTGCGGAGCCCACTCAGCAACCATGCTCAGAGACAGCTGCCCGGCTCGAGCCCTGACCTCATCTCC
 ACAGCCATGGCTGCAGACTGCTGGAGAAGTCTGAGCCTGACAAGGGCCAAGCTGGTCCCTGGGGCTGTT
 GCCAGGCTGACGCTTATGACCCCTGCCTCAGTGCAGGCCAGAACAGTATGGGTCCTTAGACATACCCTC
 TGCTGAGCCAGTGGGAGGAGCCCTGACCTTCCAAGTACCAGCACATAATCCTCTCTTGAAAACGCC
 CAGAGTTCTGAGAAAACGGAAGAAAATGAATTCAGCGGCTGTAGGTCTGAGTCACTCCCTCGCACCTCTC
 ATCTCGGCACCCCTCCAGCGCTACCTCGAAAACAAGGCCTCTGCAGAAGAGTGGAGATGACTCCTCAGA
 AGAGGAAGAAGGGGAAGTAGATAGTGAAGTTGAATTTCCACGAAGACAGAGGCCCATCGCTGTATCAGC
 AGCTGCCAGTCATATTCAACCTTAGCTCTGAGATTTCTCTGTGTCTGATGGAGAAGAGGGAAATACCA
 GTGACCACTCAAACAGTCTGATGAGTTAGCTGATAAACTTGAAGACCGCTTGGCAGAGAAGCTAGACGA
 CCTGCTGTCCCAGACGCCAGAGATTCCCATGACATATCCTCACACTCGGATGGGCTCTCTGACAAGGAG
 TGTGCCGTGCGCGTGTGAAGACTCAGATGTCTCTGGCAAGCTGTGTGGAGGAACGTGGCTATGAGA
 ACCCCATGCAGTTTGAAGATCGGACTGTGACTCTCAGATGGGAGTGTCTGATGCCACAGTTAGGAC
 CAATAAACACTACAGCTCTGCTACCTGG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG220337 representing NM_004721
 Red=Cloning site Green=Tags(s)

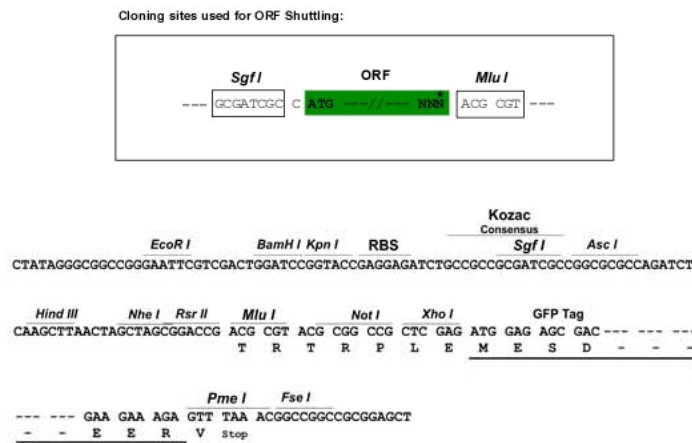
MANLQEHLSCSSSPHLPFSESKTFNGLQDEL TAMGNHPSPKLLEDQKEGMVRETELIESVHSPVTTTTLT
 SVSEDSRDQFENSVLQLREHDESETAVSQGNSNTVDGESTSGTEDIKIQFSRSGSGGGFLEGLFGCLRP
 VWNIIIGKAYSTDYKLLQQQDTWEVPFEEISELQWLGSGAQGAVFLGKFRAEVEVAIKKVVREQNETDIKHLRK
 LKHPNIIAFKGVCTQAPCYCIIMEYCAHGQLYEVL RAGRKITPRLLVDWSTGIASGMNYLHLHKIHRDL
 KSPNVLVTHTDVAVKISDFGTSKELSDKSTKMSFAGTVAWMAPEVIRNEPVSEKVDIWSFGVVLWELLTGE
 IPYKDVDSAIIWGVGSNSLHLPVPSTCPDGFKILMKQTWQSKPRNPSFRQTLMHLDIASADVLATPQE
 TYFKSQAEWREEVKHFEEKIKSEGTCIHRLEDELIRRRREELRHALDIREHYERKLERANNLYMELSAIM
 LQLEMREKELIKREQAVEKKYPGTYKRHPVRPIIHPNAMEKLMKRKGVPHKSGMQTKRPDLLRSEGIPPT
 EVAPTASPLSGSPKMSTSSKSRYSKPRHRRGNSRGSDFSFAAILKNQPAQENSPHTYLHQAQSQYPS
 LHHHNSLQQYQPPAMPSSQSHHPRLNMHGQDIATCANNLRYFGPAAALRSPLSNHAQRQLPGSSPDLIS
 TAMAADCWRSSEPDKGQAGPWGCCQADAYDPCLQCRPEQYGLDIPSAEPVGRSPDLKSPAHNPLLENA
 QSSEKTEENEFSGCRSESLGTSHLGTPPALPRKTRPLQKSGDSSSEEEEGEVDSEVEFPRRQRPHRCIS
 SCQSYSTFSSENFSVSDGEEGNTSDHSNSPDELADKLEDRLAEKLLDLLSQTP EIPIDISSHSDGLSDKE
 CAVRRVKTQMSLGKLCVEERGYENPMQFEEEDCDSSDGECS DATVRTNKHYSSATW

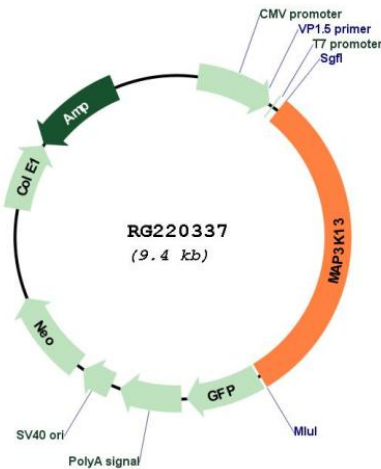
TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_004721

ORF Size: 2898 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_004721.3](#), [NP_004712.1](#)

RefSeq Size: 3568 bp

RefSeq ORF: 2901 bp

Locus ID: 9175

UniProt ID: [O43283](#)

Cytogenetics:	3q27.2
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase, Transcription Factors
Protein Pathways:	MAPK signaling pathway
Gene Summary:	The protein encoded by this gene is a member of serine/threonine protein kinase family. This kinase contains a dual leucine-zipper motif, and has been shown to form dimers/oligomers through its leucine-zipper motif. This kinase can phosphorylate and activate MAPK8/JNK, MAP2K7/MKK7, which suggests a role in the JNK signaling pathway. [provided by RefSeq, Jul 2008]