

Product datasheet for **MR217856**

Map3k12 (NM_001163643) Mouse Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Map3k12 (NM_001163643) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Map3k12 |
| Synonyms: | DLK; MUK; Zpk |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>MR217856 representing NM_001163643
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCTGCCTCCATGAAACCCGAACACCCCTCCCCTTCTTTGGGGCTTTGTGTCTACTCTAAGTGAGG
 CTCTATGCGAAAAGCTGGATCCAGACACTTCAGACTGCACCCCGAGAAAAGACCTGACGCCACCCAATG
 TGTACTTCGAGATGTTGTGCCTCTCGGTGGCAGGGTGGAGGAGGACCCAGCCCTCCCCAGGTGGAGAG
 CCTCCCCAGAGCCTTTTGC AATAGTGTCTCCAGCTACATGAGCAGGATACAGGTGGGCCAGGGGGAG
 CCACTGGGTACCTGAGAGTCGAGCATCTAGAGTTCGAGCTGATGAGGTACGTCTGCAGTGCCAGAGTGG
 CAGTGGCTTCTTGAAGGTCTTTTGGCTGCGCCCTGTCTGGACAATGATTGGCAAAGCCTACTCC
 ACAGAACAAGCAACAGCAGGAAGACCTTTGGGAAGTCCCTTTGAGGAAATCTGGACCTGCAGTGGG
 TAGGCTCAGGGGCTCAGGTGCTGTTTTCTGGGACGCTTCCACGGGGAGGAGGTAGCTGTGAAGAAGT
 TCGAGATCTCAAGGAGACTGACATCAAGCATCTTCGAAAGCTGAAGCACCCCAACATCATCACTTTCAAG
 GGTGTTTGCACACAGGCCCTGCTACTGCATCCTTATGGAATTCGCGCTCAAGGACAGCTATATGAGG
 TGCTCAGAGCCGGCCGCTGTACCCCTCCTTGTCTGGTTGACTGGTCCATGGGCATCGTGGTGGCAT
 GAATTACCTGCACCTGCACAAGATTATCCACAGAGACCTGAAGTCAACCAACATGCTAATACATACGAC
 GATGTGGTGAAGATCTCAGATTTTGGCACTTCCAAGGAGCTGAGTGACAAGAGCACCAAGATGTCCTTTG
 CAGGAACAGTAGCCTGGATGGCTCCTGAAGTGATCAGAAATGAACCTGTGTCTGAGAAGGTTGACATCTG
 GTCCTTTGGGGTGGTGTATGGAACTACTGACTGGAGAGATTCCTACAAAGATGTAGATTCTCAGCC
 ATCATCTGGGGTGTGGGAAGCAACAGTCTCCACCTGCCTGTACCCTCCAGCTGCCAGATGGTTTTAAAA
 TTCTACTTCGCCAGTGTGGAACAGCAAACACGAAATCGCCATCATTCCGACAGATCTGTGTCACCT
 GGACATCGCCTCCGCTGATGTGCTCTACACCCAGGAGACTTACTTTAAGTCCAGGACAGAGTGGCGG
 GAAGAAGTAAAAGTCACTTTGAAAAGATTAAGTCAGAAGGGACCTGTCTGCACCGCCTAGAAGAGGAAC
 TGGTGTGCGGAGAAGGGAGGAGCTCAGACATGCCCTGGACATCAGGGAGCACTATGAACGGAAGTTGGA
 GAGAGCCAACAACCTGTACATGGAAGTGAATGCCCTCATGCTGCAACTAGAAGTCAAAGAGAGGGAATTG
 CTCAGGCGAGAGCAGGCTTTAGAAAGGCGGTGCTGCTACTAAAGTACACCCCTTCTCGGGGCTCC
 TACATGGAACACTATGGAGAAGCTCATCAAGAAAAGGAAAGTCCACAGAAACTGTCGCCCCACAGCAA
 AAGGCCAGATATCTCAAGACAGAGTCGTTGCTACCTAACTAGATGCAGCCCTAAGTGGGGTGGGGCTT
 CCTGGGTGCTCAAGGGCCCCCTTACCTGGAAGGAGTGGCGTGGCAAGACCCGTACCGAAAGGCCA
 GTGCCAAGGGCAGCTGTGGAGACCTGCCTGGGCTTCGTGCAGCTTGGCCACCCATGAGCCTGGAGGACT
 AGGAAGCCAGGGGGCTAGGAGTGGGCCCTTACGCTTGGGATGCTTGGCCCCCTGCTCTCCGTGGACTC
 CACCATGACCTTCTACTCCGAAAGATGTCATCATCCCCAGACCTGCTATCAGCAGCGCTGGGAGCCC
 GAGGCCGAGGGGCTACAGGGGGAGCTCGGGATCCTGGCTCACCACCTCCACCCAGGGCGATACTCCTCC
 AAGTGAGGGATCAGCTCCTGGTTCACACAGCCAGATTCGCCTGGGGGAGCTAAAGGGGAACCCCTCCA
 CCAGTAGGGCTGGAGAAGGTGTGGGGCTGCTGGAACTGGAAGGGAAGGGACTGCAGGCCGGGGAGGAA
 ACCGGGCTGGGTCCCAGCACTTGACCCCGCTGCGCTGCTGTACAGGGCTGCTGTGACTCGAAGTCAGAA
 ACGTGGTATCTCATCTGAAGAAGAAGAAGGAGAGGTAGACAGTGAAGTAGAGCTACCCCAAGTCAAAGG
 TGGCCTCAGGGCCGAACATGCGTCAGTCACTATCTACATTCAGCTCAGAGAACCATCAGATGTGGAGG
 AAGGTACAGCTAGTGAGCCTTCCCAAGTGGCACACCAGAAGTTGGCAGTACCAACTGATGAGCGACC
 AGATGAACGATCTGATGACATGTGCTCACAGGGCTCAGAAATTCAGTGGACCTACCTACTTCAGAGGTG
 GTCCCTGAACGTGAAGCCAGCTCCTTGCCATGCAACACCAGGATGGCCAGGGCCCCAATCCTGAAGACT
 CAGACTGTGACAGCACTGAATTGGACAACCTCAACAGCATTGATGCCTTGGCGCCCCAGCCTCCCTTCC
 TCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR217856 representing NM_001163643
 Red=Cloning site Green=Tags(s)

MACLHETRTPSPSFGGFVSTLSEASMRKLDPDTSDCTPEKDLTPTQCVLRDVVPLGGQGGGPPSPSPGGE
 PPPEPFANSVLQLHEQDTGGPGGATGSPESRASRVRADEVRLQCQSGSGFLEGLFGCLRVPVWTMIGKAYS
 TEHKQQQEDLWEVPFEEILDQWVWGSAQGAFLGRFHGEEVAVKKVRDLKETDIKHLRKLKHPNIITFK
 GVCTQAPCYCILMEFCAQGLYEVLRAGRPVTPSLLVDWSMGIAGMNYLHLHKIIHRDLKSPNMLITYD
 DVVKISDFGTSKELSDKSTKMSFAGTVAWMAPEVIRNEPVSEKVDIWSFGVVLWELLTGEIPYKDVDS
 IIVGWGNSLHLPVPSSCPDGFKILLRQCWNSKPRNPSFRQILLHLDIASADVLSTPQETYFKSQAEWR
 EEVKLHFEEKISEGTCLHRLLEEELVMRRREELRHALDIREHYERKLERANNLYMELNALMLQLELKEREL
 LRREQALERRCPLLKSHPSRGLLHGNTMEKLIKRNVPQKLSPHSKRPDILKTESLLPKLDAALSGVGL
 PGCPCGPPSPGRSRRGKTRHRKASAKGSCGDLPLRAALPPHEPGGLGSPGGLGVGPSAWDACPPALRGL
 HHDLLLRKMSSSSPDLLSAALGARGRGATGGARDPGSPPPPQGDTPPSEGSAPGSTSPDSPGGAKGEP
 PVGPGEVGLLTGTREGTAGRGGNRAGSQHLTPAALLYRAAVTRSQKRGISSEEEGEVDSEVELPPSQ
 WPQGNMRQSLSTFSSENPSDVEEGTASEPSPSGTPEVGSNTNTERPDERSDDMCSQSGSEIPLDLPTSEV
 VPEREASSLPMQHQQGPNPEDSDCDSTELDNSNSIDALRPPASLPP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9009_e04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

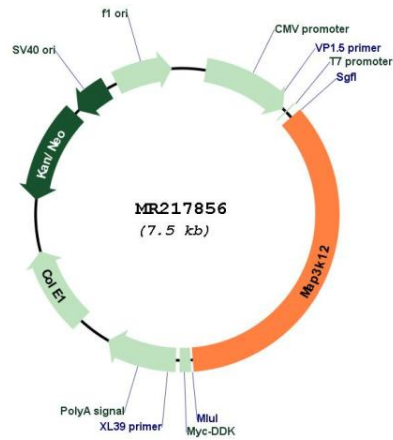


* The last codon before the Stop codon of the ORF

ACCN: NM_001163643

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|-------------------------------|--|
| ORF Size: | 2664 bp |
| OTI Disclaimer: | <p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p> |
| 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: | <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_001163643.1</u> , <u>NP_001157115.1</u> |
| RefSeq Size: | 5528 bp |
| RefSeq ORF: | 2667 bp |
| Locus ID: | 26404 |
| UniProt ID: | <u>Q60700</u> |
| Cytogenetics: | 15 F3 |
| MW: | 96.5 kDa |
| Gene Summary: | Protein kinase which is part of a non-canonical MAPK signaling pathway (PubMed:7983011, PubMed:8663324, PubMed:28111074). Activated by APOE, enhances the AP-1-mediated transcription of APP, via a MAP kinase signal transduction pathway composed of MAP2K7 and MAPK1/ERK2 and MAPK3/ERK1 (PubMed:28111074). May be an activator of the JNK/SAPK pathway.[UniProtKB/Swiss-Prot Function] |

Product images:



Circular map for MR217856