

Product datasheet for **MR227468**

Map6 (NM_010837) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Map6 (NM_010837) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Map6
Synonyms:	2810411E12Rik; Map-6; Mtap6; STOP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR227468 representing NM_010837
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGTGGCCGTGCATCACAAAGGGCTGCTGCATCGCCCGTTCTGGAACCAGTGGACAAGGCGGACA
 TTGCGGTGCCGCTGGTTTTACCAAGTACTCGGAGGCCACCGAACCCAGGCGCCCTCCGAGCCGCC
 AGCTCCGCTGCAGCCCGGTTAGCGCCCCCTCGCGTGTGTGCGCATAGAGACGACGCCAGCCAGGGA
 GAGTCGGATGCAGTTGCCCGGGCAACAGGGCTGCGCCCGGGCCAGCGTCGACCGGAGACTGTAGCCG
 CCCCCGGCGGAGCGGGCTGGGCTTGGGCGCGCCTCAGCCTCCACTTCCGGCTCAGGCCCGGGACTC
 GGTGATGCGACAGGACTACCGCGCTGAAAAGTGCAGCGGCCGAGCCAAGCTGCCGGCCGCGCAGCGAG
 TACCAGCCGTCGACGCGCCCTTCGAGCGGAGACCCAGTACCAGAAGGACTTCCGCGCTGGCCGCTGC
 CCGGCGCGGGGACCATCCCTGGATCCCAAGCCGGTCAAATCCCTGCGACTTCGACGCTTCCCAACC
 TGTTCTCGGGGTGCCAAGCGTCGGCCTCAGAGCCAAGAGCGGGGCCATGCAACTTTCTGCTGATGCC
 CGGACCCCGAGGGTGTGGAGGAGCCGGGTGCTGGCGGCAGGAAAGGGTCCGGTGTAGACCAGCGCG
 ACACACGTAGGAAGGCAGGGCCAGCATGGATGGTACTCGCAACGAAGGGCACGAAGAGAAGCCTCTGCC
 CCCAGCCCAATCCAGACCCAGGAGGGTGGTCTGCAGCTGAAAAGGCGTCCGGTGCAGATCAGCGTGAC
 ACACGCAGGAAGGCAGGGCCAGCATGGATGGTACTCGCAGCGAAGGGCACGAAGAGAAGCCTCTGCCCC
 CAGCCCAATCCAGACCCAGGAGGGTGGTCTGCAGCTGAAAAGGCGTCCGGTGCAGATCAGCGTGACAC
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 GCCCAGTCTCAGACCCAGGAGGGCGCCCGCAGCTGAAAAGGCATCTGGTGCAGACGAGCGGACACGA
 GGAGAAAGCGGGGCGCCCTGGATGGTGGCTCGCTCGGAGGGGCACGAACAGACACCCGCTGCCATGC
 CCAAGGCACAGGGCTGAAGGAGGCAAGGGGCGCGGGTGGCAGATGCCCTCAACAGGCAATCCGGGAG
 GAGGTGGCGAGTACAGTAAGCAGCTTTACAGGAATGAATTCAGAGCATGGACTGACATCAAGCCTGTGA
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 CCAGTTCAAAGGGGAGGCCAATAAGCCAGTGCAGCGACAACAAGGCCATGGATCGCAGAAGAATACGG
 AGCCTCTACAGTGAAGCTTTCAAGGAATGCCCGAAGGTAGAGAAACCTAGTGTTCAGAGTTCCAAACCA
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 CAAGAAAAAGACCACAGAGGGCCCCAGTGTACCAAACCCGACGACAAGGAGCAAAGCAAAGAGATGAAC
 AATAAACTGGCTGAGGCGAAAGAGACCCGGTCAAACCCACCAGTGTATCTAAGAACCAGGTCCTG
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 GGATCAAGGCCCTGTGGTGCAGGACTGCCAAAAGATCAAGTTCCTGTAGTCCCAGGGTCCTTAAAGGGT
 CAGAGCCCTACAGCCCCGGGCCCTACAAAGGATCAAGGTGCTGTGCTCTTAGGGCCCGTGAAGGATCTAG
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 AATCAAGACCCTATAATCCAGTACCTTTGAAGGGTCAAGGATCCCTGGTCCAGCCCCAACAAAGGACC
 AAGGTCCTACAGCCCTGACCCTCTGAAGACTCAAGGTCCCAAGGCACTCAACTGCCACAGTCTCACC
 TTCACCCAGTCATGATCCCAACAGTTCCCATACGGAATATATTGAGGGATCCCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR227468 representing NM_010837
 Red=Cloning site Green=Tags(s)

MAWPCITRACCIARFWNLQDKADIAPLVFTKYSEATEHPGAPPQPPAPLQPALAPPSRAVAIETQPAQG
 ESDAVARATGPAPGPSVDRETVAAPGRSGLGLGAASASTSGSGPADSVMRQDYRAWKVQRPEPSCRPRSE
 YQPSDAPFERETQYQKDFRAWPLPRRGDHPWIKPVQIPATSQPSQPVLGVPKRRPQSQERGMQLSADA
 RDPEGAGGAGVLAAGKASGVDQRDTRRKAGPAWMVTRNEGHEEKPLPPAQSQTQEGGPAAGKASGADQRD
 TRRKAGPAWMVTRSEGHEEKPLPPAQSQTQEGGPAAGKASGADQRDTRRKAGPAWMVTRTEGHEETPLPP
 AQSQTQEGGPAAGKASGADERDTRRKAGPAWMVRRSEGHEQTPAHAHQGTGPEGGKRAVADALNRQIRE
 EVASTVSSSYRNEFRAWTDIKPVKPIKAKPQYKPPDDKMHETSYSAQFKGEANKPSAADNKAMDRRRIR
 SLYSEPFKECPKVEKPSVQSSKPKKTSTSHKPPRKAKDKQVVSQAAKKKTTTEGPSATKPDDEQSKEMN
 NKLAEAKESRVKPTSDASKNRGPVTKEPHKDQGSVAPGLPKGQEPLKDQGPVVPGLPKDQVVPVPGSLKG
 QSPTAPGPTKDQAVLLGPVKDLGPVAPAPIKVQDHIASELLKNKDSVPLAPAKAQSPLLPEPLKNQSPV
 VPASTKDQSFPTAPRKDPGPVPEPEKDRAPTVPERRKDQHSIMASLKNEAPMVPESVKNQGLAGPEL
 VKDTGTDTTAPRYLKGHDSVVFAPVKNQGPVPEPVKSQDPIIPALAKDQGPMLPEPPKNQSPVVLGPIK
 NQDPIIPVPLKGQDPLVPAPTQDQPTAPDPLKTQGPKGTQLPTVSPSPVMIPTVPHTIEYIEGSP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

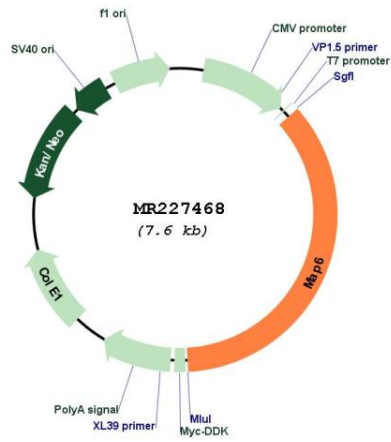
Cloning Scheme:



ACCN: NM_010837

ORF Size:	2718 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:	<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:	NM_010837.3 , NP_034967.2
RefSeq Size:	3447 bp
RefSeq ORF:	2721 bp
Locus ID:	17760
UniProt ID:	Q7T5J2
Cytogenetics:	7 E1
MW:	96.9 kDa
Gene Summary:	Involved in microtubule stabilization in many cell types, including neuronal cells (PubMed:9600916). Specifically has microtubule cold stabilizing activity (PubMed:9600916). Involved in dendrite morphogenesis and maintenance by regulating lysosomal trafficking via its interaction with TMEM106B (By similarity). Regulates KIF5A-mediated axonal cargo transport (By similarity). Regulates axonal growth during neuron polarization (PubMed:28521134).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR227468