

Product datasheet for **MR208950**

Map6 (NM_001048167) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Map6 (NM_001048167) 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:

>MR208950 representing NM_001048167, **codon optimized**.
Due to the complexity of NM_001048167, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCTGGCCATGCATCACTCGGGCTGCTGCATTGCCCGTTTTGGAACCAAGTGGACAAGGCAGACA
 TTGCGTTCCACTCGTGTCTCACTAAGTATAGCGAGGCGACTGAGCACCCCGCGCTCCACCTCAGCCACC
 TGCCCCACTGCAGCCTGCTCTCGCCCTCTTCCCGGGTGTGGCGATTGAAACACAACCCGCGCAAGGA
 GAGTCCGACGCCGTCGCTCGGGCGACAGGACCAGCCCCAGACCATCCGTGGACCGGAGACGGTGGCCG
 CACCAGGACGGTCTGGGCTGGGGCTGGGAGCCGCTAGCGCCTCTACCAGCGGCAGTGGCCCGGCAGACTC
 CGTTATGAGACAAGACTACAGAGCTTGAAGGTACAGAGGCCGAACCTAGCTGCAGACCAGCTCAGAG
 TATCAGCCAGTGACGCCCTTTTCGAGCGAGAACTCAGTATCAGAAGGATTTCCGGGCTGGCCCTGC
 CGAGGAGGGGGATCACCTTGGATCCCAAGCCAGTGCAGATCCCAGCAACATCACAGCCTTCTCAGCC
 CGTACTGGGAGTGCCGAAACGCAGACCTCAGTACAGGAACGAGGTCCCATGCAGCTCAGCGTGTATGCC
 CGCGATCTGAAGGGGCCGGGGGGCAGGTGTCTTCCGCTGGCAAAGCTTCAGGAGTGGATCAGAGAG
 ATACGAGACGGAAAGCCGACCCGCTGGATGGTACACGCAATGAAGGACACGAGGAGAAACCGCTGCC
 ACCGGTCAATCCAAACCCAGGAGGGAGGGCTGCTGCTGGAAAGCCCTCAGGCGCTGATCAGAGAGAT
 ACCCGGAGGAAGCCGGCCAGCGTGGATGGTGACACGGAGCGAAGGTCAAGAGGAGAAGCCACTCCCCC
 CAGCACAGTCTCAAACCCAGGAGGTGGACCTGCAGCCGGTAAAGCATCCGGTGGCCGACAGCGAGACAC
 CCGCCGAAAGCCGGCCAGCATGGATGGTGACTAGGACTGAAGGCCATGAGGAGACACCTCTCCCGCCA
 GCCCAATCTCAGACACAGGAGGGGGGCTGCCGCTGAAAGGCGTCCGGAGCTGACGAGCGGGATACAA
 GACGGAAGGCAGGACCGCGTGGATGGTTCGGCGGAGCGAGGGCCATGAGCAAACCCCTGCTGCACATGC
 ACAGGGCACCGGGCTGAAGGGGTAAAGGGCGGGCTGTGGCCGACGCCCTGAACCGCCAGATCCGCGAG
 GAGGTGGCATCTACAGTCTCATCAAGTTATCGCAACGAATCCGGGCTTGGACCGACATCAAGCCAGTGA
 AACCTATTAAGCTAAGCCACAATATAAGCCTCCTGACGATAAGATGGTGCACGAGACAAGTTACAGCGC
 TCAGTTCAAAGGAGAAGCAAATAAGCCTAGCGCCGCTGATAATAAGCCATGGATAGACGGAGAATTCGG
 TCCTCTATAGTGAGCCCTTCAAGGAGTGTCCCAAGGTTGAGAAGCCAGCGTCCAGAGTAGTAAGCCTA
 AGAAAACGAGTACCTCCATAAGCCCCAAGGAAGGCTAAAGACAAGCAGGTGGTTTCCGGCAAGCCGC
 GAAGAAAAGACCACAGAGGGACCTTCCGCCACGAAACCTGATGATAAGGAGCAGTCCAAAGAAATGAAC
 AATAAGCTCGCCGAGGCCAAGGAA

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR208950 representing NM_001048167
Red=Cloning site Green=Tags(s)

MAWPCITRACCIARFWQLDKADIAVPLVFTKYSEATEHPGAPPQPPAPLQPALAPPSRAVAIETQPAQG
 ESDAVARATGPAPGPSVDRETVAAPGRSGLGLGAASASTSGSGPADSVMRQDYRAWKVRPEPSCRPRSE
 YQPSDAPFERETQYQKDFRAWPLPRRGDHPWIPKPVQIPATSQPSQPVLGVPKRRPQSQERGMQLSADA
 RDPEGAGGAGVLAAGKASGVDQRDTRRKAGPAWMVTRNEGHEEKPLPPAQSQTQEGGPAAGKASGADQRD
 TRRKAGPAWMVTRSEGHEEKPLPPAQSQTQEGGPAAGKASGADQRDTRRKAGPAWMVTRTEGHEETPLPP
 AQSQTQEGGPAAGKASGADERDTRRKAGPAWMVRRSEGHEQTAAHAQGTGPEGGKGRAVADALNRQIRE
 EVASTVSSSYRNEFRAWTDIKPVKPIKAKPQYKPPDDKMHETSYSAQFKGEANKPSAADNKAMDRRRIR
 SLYSEPFKECPKVEKPSVQSSPKKKTSTSHKPPRKAKDKQVVSQGAAKKKTTEGPSATKPDDEQSKEMN
 NKLAEAKE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001048167

ORF Size: 1704 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_001048167.1](#), [NP_001041632.1](#)

RefSeq Size: 4962 bp

RefSeq ORF: 1707 bp

Locus ID: 17760

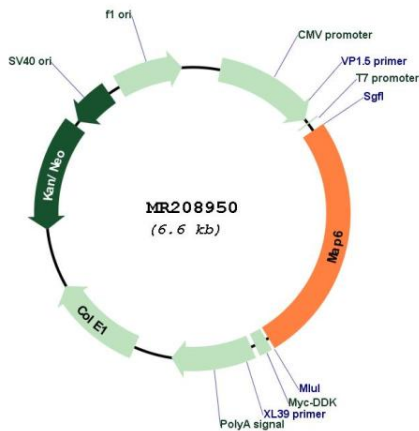
UniProt ID: [Q7TSI2](#)

Cytogenetics: 7 E1

MW: 61.1 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 MR208950