

Product datasheet for **MG227337**

Map6 (NM_001043355) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Map6 (NM_001043355) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Map6
Synonyms:	2810411E12Rik; Map-6; Mtap6; STOP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG227337 representing NM_001043355 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAACTTTCTGCTGATGCCCGGGACCCGGAGGGTGCTGGAGGAGCCGGGGTCTGGCGGCAGGAAAGG
CGTCCGGTGTAGACCAGCGCACACACGTAGGAAGGCAGGGCCAGCATGGATGGTACTCGCAACGAAGG
GCACGAAGAGAAGCCTCTGCCCCAGCCAATCCAGACCCAGGAGGGTGGTCTGCAGCTGAAAGGCG
TCCGGTGCAGATCAGCGTGACACACGCAGGAAGGCAGGGCCAGCATGGATGGTACTCGCAGCGAAGGGC
ACGAAGAGAAGCCTCTGCCCCAGCCAATCCAGACCCAGGAGGGTGGTCTGCAGCTGAAAGGCGTC
CGGTGCAGATCAGCGTGACACACGCAGGAAGGCTGGACCCGCGTGGATGGTACTCGCACGGAAGGGCAC
GAGGAGACGCCGCTGCCACCCGCCAGTCTCAGACCCAGGAGGGCGGCCCGCAGCTGAAAGGCATCTG
GTGCAGACGAGCGCACACGAGGAGGAAGGCGGGCCGGCCTGGATGGTGCCTCGCTCGGAGGGGCACGA
ACAGACACCCGCTGCCCATGCCAAGGCACAGGGCCTGAAGGAGGCAAGGGGCGCGCGTGGCAGATGCC
CTCAACAGGCAAATCCGGGAGGAGGTGGCGAGTACAGTAAGCAGCTTTACAGGAATGAATTCAGAGCAT
GGACTGACATCAAGCCTGTGAAACCCATCAAAGCCAAGCCCCAGTACAAGCCCCAGATGACAAGATGGT
TCATGAGACCAGCTACAGCGCCAGTTCAAAGGGGAGGCCAATAAGCCCAGTGCAGCGGACAACAAGGCC
ATGGATCGCAGAAGAATACGGAGCCTCTACAGTGAGCCTTCAAGGAATGCCGAAGGAGCCGGTCAA
CCACCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG227337 representing NM_001043355
 Red=Cloning site Green=Tags(s)

MQLSADARDPEGAGGAGVLAAGKASGVDQRDTRRKAGPAWMVTRNEGHEEKPLPPAQSQTQEGGPAAGKA
 SGADQRDTRRKAGPAWMVTRSEGHEEKPLPPAQSQTQEGGPAAGKASGADQRDTRRKAGPAWMVTRTEGH
 EETPLPPAQSQTQEGGPAAGKASGADERDTRRKAGPAWMVRRSEGHEQTPAAHAQGTGPEGGKGRAVADA
 LNRQIREEVASTVSSSYRNEFRAWTDIKPVKPIKAKPQYKPPDDKMVHETSYSAQFKGEANKPSAADNKA
 MDRRRIRSLYSEPFKECPKEPGQTHQ

TRTRPLE - GFP Tag - V

Restriction Sites:

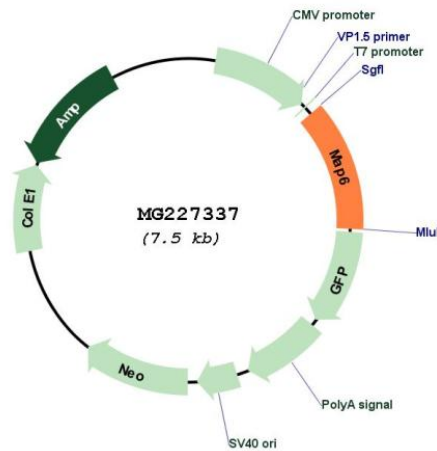
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001043355

ORF Size: 918 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_001043355.2 , NP_001036820.2
RefSeq Size:	2335 bp
RefSeq ORF:	921 bp
Locus ID:	17760
UniProt ID:	Q7TSJ2
Cytogenetics:	7 E1
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]