

Product datasheet for **RG221637**

MAP2 (NM_031845) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAP2 (NM_031845) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MAP2
Synonyms:	MAP-2; MAP2A; MAP2B; MAP2C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG221637 representing NM_031845
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGATGAACGGAAAGACGAAGCAAAGGCACCTCACTGGACCTCAGCACCGCTAACAGAGGCATCTG
 CACACTCACATCCACCTGAGATTAAGGATCAAGGCGGAGCAGGGGAAGGACTTGTCCGAAGCGCCAATGG
 ATTCCCATACAGGGAGGATGAAGAGGGTGCCTTTGGAGAGCATGGGTACAGGGCACCTATTCAAATACC
 AAAGAGAATGGGATCAACGGAGAGCTGACCTCAGCTGACAGAGAAAACAGCAGAGGAGGTGTCTGCAAGGA
 TAGTTCAAGTAGTCACTGCTGAGGCTGTAGCAGTCTGAAAGGTGAACAAGAGAAAAGAAGCTCAACATAA
 AGACCAGACTGCAGCTCTGCCTTAGCAGCTGAAGAAACAGCTAATCTGCCTCCTTCTCCACCCCATCA
 CCTGCCTCAGAACAGACTGTCACAGTGGAGGAAGCAGCAGGTGGGAATCAGCTCTGGCTCCCAGTGTAT
 TTAACAGGCAAAGGACAAAGTCTCTGACGGAGTAACCAAGAGCCAGAAAAGCGCTCTTCTCTCCAAG
 ACCTTCTCCATTCTCCCTCCTCGGCGAGGTGTGTCAGGAGACAGAGATGAGAATTCCTTCTCTCTCAAC
 AGTTCTATCTCTTCTCAGCACGGCGGACCACAGGTGACAGCCAATTCGCAGAGCAGGGAAGAGTGGTA
 CCTCAACACCCACTACCCCTGGGTCTACTGCCATCACTCCTGGCACCCCAAGTTATTCTTACAGCAC
 ACCAGGCACTCCTGGAACCCCTAGCTATCCCAGGACCCCTCACACACCAGGAACCCCAAGTCTGCCATC
 TTGGTGCCGAGTGAGAAGAAGGTCGCCATCATACGTACTCCTCCAAAATCTCCTGCGACTCCAAGCAGC
 TTCGGCTTATTAACCAACCCTGCCAGACCTGAAGAATGTCAAATCCAAAATCGGATCAACAGACAACAT
 CAAATACCAGCCTAAAGGGGGCAGGTACAAATGTTACCAAGAAAATAGACCTAAGCCATGTGACATCC
 AAATGTGGCTCTCTGAAGAACATCGGCCACAGGCCAGGTGGCGGACGTGTGAAAATGAGAGTGTAAAAC
 TAGATTTCAAAGAAAAGCCAAAGCTAAAGTTGGTTCTTTGATAATGCTCATCATGTACCTGGAGGTGG
 TAATGTCAAGATTGACAGCCAAAAGTTGAACTTCAGAGAGCATGCTAAAGCCCGTGTGGACCATGGGGCT
 GAGATCATTACAGTCCCCAGGAGATCCAGCGTGGCATCACCCGACGACTCAGCAATGTCTCTCTCGT
 CTGGAAGCATCAACCTGCTCGAATCTCCTCAGCTTGCCACTTTGGCTGAGGATGTCAGTCTGACTCGC
 TAAGCAGGGCTTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG221637 representing NM_031845
 Red=Cloning site Green=Tags(s)

MADERKDEAKAPHWTSAPL TEASAHSHPPEIKDQGGAGEGLVRSANGFPYREDEEGAFGEHGSQGTYSNT
 KENGINGELTSADRETAEEVSARIVQVVTAEAVAVLKGEQEKEAQHKDQTAALPLAAEETANLPPSPPS
 PASEQTVTVEEAAGGESALAPSVFKQAKDKVSDGVTKSPEKRSSLPRPSSILPPRRGVSGDRDENSFLN
 SSISSARRTRRSEPIRRAGKSGTSTPTTPGSAITPGTPPSYSSRTPGTPGTPSYPRTPHTPGTPKSAI
 LVPSEKKVAIIRTTPKSPATPKQLRLINQPLPDLKNVSKIGSTDNIKYQPKGGQVQIVTKKIDLSHVTS
 KCGSLKNIGHRPGGGRVKIESVKLDFKEKAQAKVGLDNAHHPGGNVKIDSQKLNFRHAKARVDHGA
 EIITQSPGRSSVASPRRLSNVSSSGSINLLESPQLATLAEDVTAALAKQGL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_031845

ORF Size: 1413 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_031845.1](#), [NP_114033.1](#)

RefSeq Size: 2466 bp

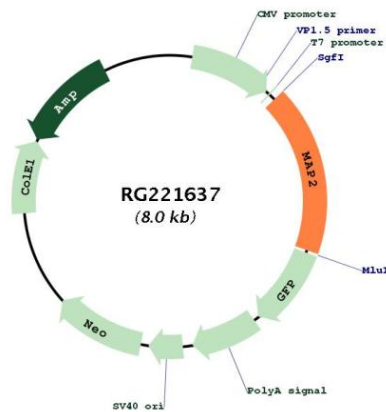
RefSeq ORF: 1416 bp

Locus ID: 4133

UniProt ID: [P11137](#)

Cytogenetics:	2q34
Domains:	tubulin-binding
Protein Families:	Adult stem cells, Druggable Genome, ES Cell Differentiation/IPS
Gene Summary:	This gene encodes a protein that belongs to the microtubule-associated protein family. The proteins of this family are thought to be involved in microtubule assembly, which is an essential step in neurogenesis. The products of similar genes in rat and mouse are neuron-specific cytoskeletal proteins that are enriched in dendrites, implicating a role in determining and stabilizing dendritic shape during neuron development. A number of alternatively spliced variants encoding distinct isoforms have been described. [provided by RefSeq, Jan 2010]

Product images:



Circular map for RG221637