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Product datasheet for SC309886

MAP2 (NM_002374) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAP2 (NM_002374) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAP2
Synonyms:	MAP-2; MAP2A; MAP2B; MAP2C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

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>SC309886 representing NM_002374.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCAGATGAACGGAAAGATGAAGCAAAGGCACCTCACTGGACCTCAGCACCGCTAACAGAGGCATCT
GCACACTCACATCCACCTGAGATTAAGGATCAAGGCGGAGCAGGGGAAGGACTTGTCCGAAGCGCCAAT
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AGGATAGTTCAAGTAGTCACTGCTGAGGCTGTAGCAGTCCTGAAAGGTGAACAAGAGAAAGAAGCTCAA
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ACAGACAACATCAAATACCAGCCTAAAGGGGGGCAGGTACAAATTGTTACCAAGAAAATAGACCTAAGC

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CATGTGACATCCAAATGTGGCTCTCTGAAGAACATCCGCCACAGGCCAGGTGGCGGACGTGTGAAAATT
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TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

ACCN: NM_002374

Insert Size: 5484 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_002374.3

RefSeq Size: 9445 bp

RefSeq ORF: 5484 bp

Locus ID: 4133

UniProt ID: P11137

Cytogenetics: 2q34

Domains: tubulin-binding

Protein Families: Adult stem cells, Druggable Genome, ES Cell Differentiation/IPS

MW: 199.5 kDa

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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 dentrites, implicating a role in determining and stabilizing dentritic shape during neuron development. A number of alternatively spliced variants encoding distinct isoforms have been described. [provided by RefSeq, Jan 2010] Transcript Variant: This longest variant (1) includes three alternate in-frame exons, compared to variant 2, resulting in the longest isoform (1).

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