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Product datasheet for SC118395

MEG1 (PTPN4) (NM_002830) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MEG1 (PTPN4) (NM_002830) Human Untagged Clone
Tag:	Tag Free
Symbol:	MEG1
Synonyms:	MEG; PTPMEG; PTPMEG1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_002830 edited
GAATTCGGCACGAGGGTGGACAGTAATGACCTCACGTTTCCGATTGCCTGCTGGCAGAAC
CTACAATGTACGAGCATCAGAGTTGGCCCGAGACAGACAGCATACTGAAGTGGTTTGCAA
CATCCTTCTTCTGGATAACACTGTACAAGCTTTCAAAGTCAATAAACATGATCAGGGGCA
AGTCTTGTTGGATGTCGTCTTCAAGCATCTAGATTTGACTGAGCAGGACTATTTTGGTTT
ACAGTTGGCTGATGATTCCACAGATAACCCAAGGTGGCTGGATCCAAACAAACCAATAAG
GAAGCAGCTAAAGAGAGGATCTCCTTACAGTTTGAACTTTAGAGTCAAATTTTTTGTAAG
TGACCCCAACAAGTTACAAGAAGAATATACAAGGTACCAGTATTTTTTGCAAATTAAACA
AGACATTCTTACTGGAAGATTACCCTGTCCTTCTAATACTGCTGCCCTTTTAGCTTCATT
TGCTGTTCAGTCTGAACTTGGAGACTACGATCAGTCAGAGAACTTGTCAGGCTACCTCTC
AGATTATTCTTTCATTCCTAATCAACCTCAAGATTTTGAAAAAGAAATTGCAAAATTACA
TCAGCAACACATAGGCTTATCTCCTGCAGAAGCAGAATTTAATTACCTAAACACAGCACG
TACCTTAGAACTCTATGGAGTTGAATTCCACTATGCAAGGGATCAGAGTAACAATGAAAT
TATGATTGGAGTGATGTCAGGAGGAATTCTGATTTATAAGAACAGGGTACGAATGAATAC
CTTTCCATGGTTGAAGATTGTAAAAATTTCTTTTAAGTGCAAACAGTTTTTTATTCAACT
TAGAAAAGAATTGCATGAATCTAGAGAAACATTATTGGGATTTAATATGGTGAATTACAG
AGCATGTAAAAATTTGTGGAAAGCATGTGTAGAACATCACACATTCTTCCGTTTGGACAG
ACCACTTCCACCTCAAAAGAATTTTTTTGCACATTATTTTACATTAGGTTCAAAATTCCG
GTACTGTGGGAGAACTGAAGTCCAATCAGTTCAGTATGGCAAAGAAAAGGCAAATAAAGA
CAGGGTATTTGCAAGATCCCCAAGTAAGCCCTTGGCACGGAAATTAATGGATTGGGAAGT
AGTAAGCAGAAATTCAATATCTGATGACAGGTTAGAAACACAAAGTCTTCCATCACGATC
TCCACCGGGAACTCCTAATCATCGAAATTCTACATTCACGCAGGAAGGAACCCGGTTACG
ACCATCTTCAGTTGGTCATTTGGTAGACCATATGGTTCATACTTCCCCAAGCGAAGTGTT
TGTAAATCAGAGATCTCCGTCATCAACACAAGCTAATAGCATTGTTCTGGAATCATCACC
ATCACAAGAGACCCCTGGAGATGGGAAGCCTCCAGCTTTACCACCCAAACAGTCAAAGAA
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TGAAACATTTGATATTCCATCTTCTCCTGAAAAACCCACTCCTAATGGTGGTATTCCACA
TGATAATCTTGTCCTAATCAGAATGAAACCTGATGAAAATGGGAGGTTTGGATTCAATGT
AAAGGGAGGATATGATCAGAAGATGCCTGTGATTGTGTCTCGAGTAGCACCAGGAACACC
TGCTGACCTCTGTGTCCCTAGACTGAATGAAGGGGACCAAGTTGTACTGATCAATGGTCG
GGACATTGCAGAACACACTCATGATCAGGTTGTGCTGTTTATTAAAGCTAGTTGTGAGAG
ACATTCTGGGGAACTCATGCTTCTAGTTCGACCTAATGCTGTATATGATGTAGTGGAAGA
AAAGCTAGAAAATGAGCCAGATTTCCAGTATATTCCTGAGAAAGCCCCACTAGATAGTGT
GCATCAGGATGACCATTCCCTGCGGGAGTCAATGATCCAGCTAGCTGAGGGGCTTATCAC
TGGAACAGTCCTGACACAGTTTGATCAACTGTATCGGAAAAAACCTGGAATGACAATGTC
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TGCCACACGGGTCATTTTAAAAGGTAATGAAGACTACATCAATGCGAACTATATAAATAT
GGAAATTCCTTCTTCCAGCATTATAAATCAGTACATTGCTTGTCAAGGGCCATTACCACA
CACTTGTACAGATTTTTGGCAGATGACTTGGGAACAAGGCTCCTCTATGGTTGTAATGTT
GACCACACAAGTTGAACGTGGCAGAGTTAAATGTCACCAATATTGGCCAGAACCCACAGG
CAGTTCATCTTATGGATGCTACCAAGTTACCTGCCACTCTGAAGAAGGAAACACTGCCTA
TATCTTCAGGAAGATGACCCTATTTAACCAAGAGAAAAATGAAAGTCGTCCACTCACTCA
GATCCAGTACATAGCCTGGCCTGACCATGGAGTCCCTGATGATTCGAGTGACTTTCTAGA
TTTTGTTTGTCATGTACGAAACAAGAGGGCTGGCAAGGAAGAACCCGTTGTTGTCCATTG
CAGTGCTGGAATCGGAAGAACTGGGGTTCTTATTACTATGGAAACAGCCATGTGTCTCAT
TGAATGCAATCAGCCAGTTTATCCACTAGATATTGTAAGAACAATGAGAGATCAGCGAGC
CATGATGATCCAAACACCTAGTCAATACAGATTTGTATGTGAAGCTATTTTGAAAGTTTA
TGAAGAAGGCTTTGTTAAACCCTTAACAACATCAACAAATAAATAAGAAAGCAAAAAGAT
CTGGGATATGTGTTGGAAAACTGCTTTCCCTTATGTTCACTGTGCCATAATGCTGCTCGC
AGGAAATGGCATTTTACAAAAAAAAAAAAAAAAAACTCGAC

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002830 unedited
TTTCCCCGCCCGTTGACGCAATGGGCGGTAGGCGTGTACGGTGGGNAGGTCTATATAAGC
AGAGCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGCGA
ATTCGGCACGAGGAGGACGCGCTTCTCCTCTGCGCGCCGGGGCCTCGAGGCTTTTTTTCT
CCAGCCGAGAGGACGCGGCTGTGATATACGAAGACTTTGTGTGGACAGTAATGACCTCAC
GTTTCCGATTGCCTGCTGGCAGAACCTACAATGTACGAGCATCAGAGTTGGCCCGAGACA
GACAGCATACTGAAGTGGTTTGCAACATCCTTCTTCTGGATAACACTGTACAAGCTTTCA
AAGTCAATAAACATGATCAGGGGCAAGTCTTGTTGGATGTCGTCTTCAAGCATCTAGATT
TGACTGAGCAGGACTATTTTGGTTTACAGTTGGCTGATGATTCCACAGATAACCCAAGGT
GGCTGGATCCAAACAAACCAATAAGGAAGCAGCTAAAGAGAGGATCTCCTTACAGTTTGA
ACTTTAGAGTCAAATTTTTTGTAAGTGACCCCAACAAGTTACAGGAAGAATATACAAGGG
ACCAGTATTTTTTGCAAATTAAACAAGACATTCTTACTGGGAGATTACCCTGTCCTTCTA
ATACTGCTGCCGTTTTAGCTTCATTTGCTGTTCAGTCCTGAACTTGGAGACTACGAATCA
GTCACGAGAACTTGGTCAGGGTACTTTTCANATAATTCTTTGATTCCTAATGAGACCTCA
GAATTGTGGAAGAAGAAATTGCGAAATTACTTCAGCCACGCCTATTTTAAAAGAATTGTC
CCCCGCGCGGATTGGTATAGAAAGCATTCCCACGCTCCGGGTGCCTTAGCGTGGGAAAGC
AAATTCGT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002830 unedited
ATGGACCGGCGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTGTAAAATGCCAT
TTCCTGCGAGCAGCATTATGGCACAGTGAACATAAGGGAAAGCAGTTTTCCAACACATAT
CCCAGATCTTTTTGCTTTCTTATTTATTTGTTGATGTTGTTAAGGGTTTAACAAAGCCTT
CTTCATAAACTTTCAAAATAGCTTCACATACAAATCTGTATTTGNACTAGGTGTTTGGAT
CATCATGGCTCGCTGATCTCTCATTGTTCTTACAATATCTAGTGGATAAACTGGCTGATT
GCATTCAATGAGACACCATGGCTGTTTCCATAGTAATAAGAACCCCAGTTCTTCCGATTC
CAGCACTGCAATGGACAACAACGGGTTCTTCCTTGCCAGCCCTCTTGTTTCGTACATGAC
AAACAAAATCTAGAAAGTCACTCGAATCATCAGGGACTCCATGGTCANGCCAGGCTATGT
ACTGGATCTGAGTGAGTGGACGACTNTCATTTTTCTCTTGGTTAAATANGGTCATCTTCC
TGAAGATATANGCAGTGTTTCCTTCTCAGAGTGCANGTAACTTGTAGCATCCATAGATGA
ACTGCCTGTGGGTTCTGGCCAATATGGTGACATTTACTCTGCCACGTCACTTGTGTGGTC
ACATTACAACATAGNAGACCTTGTCCCAGTCATCTGCAAAATCTGTACAGTGTGTGGTAT
GGCCTTTGACAGCATGACTGATTATATGGCTGAGAAGATTTCATATTATTTAGTCCATGA
TGTAGCTCATTACTTTAAAGACCCTGTGCATCTAAGCAATTATTTGATTTTTTGGATATT
CTAGTATTTGCACAGCATGCATTCAGTTTTTCCATCGTGATCACTGGTAGACTGTTCAGG
AAACCCTACTACTGACATGCCTCGCGGAATGGTTCTGACCCCTCTAGGGGCTTTAGAATC
GGATTG

Restriction Sites: NotI-NotI

ACCN: NM_002830

Insert Size: 3300 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).

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_002830.2, NP_002821.1
RefSeq Size:	3963 bp
RefSeq ORF:	2781 bp
Locus ID:	5775
UniProt ID:	P29074
Cytogenetics:	2q14.2
Domains:	Y_phosphatase, B41, PDZ, PTPc_motif
Protein Families:	Druggable Genome, Phosphatase
Gene Summary:	The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This protein contains a C-terminal PTP domain and an N-terminal domain homologous to the band 4.1 superfamily of cytoskeletal-associated proteins. This PTP has been shown to interact with glutamate receptor delta 2 and epsilon subunits, and is thought to play a role in signalling downstream of the glutamate receptors through tyrosine dephosphorylation. [provided by RefSeq, Jul 2008]