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Product datasheet for SC118361

MEG2 (PTPN9) (NM_002833) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MEG2 (PTPN9) (NM_002833) Human Untagged Clone
Tag:	Tag Free
Symbol:	MEG2
Synonyms:	MEG2; PTPMEG2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene ORF within SC118361 sequence for NM_002833 edited (data generated by NextGen Sequencing)

ATGGAGCCCGCGACCGCGCCCCGGCCCGACATGGCGCCGGAGCTGACCCCGGAGGAGGAG
CAGGCTACCAAGCAGTTTCTCGAAGAGATTAACAAGTGGACAGTTCAGTACAATGTTTCC
CCGCTGTCTTGGAATGTGGCTGTCAAGTTCCTCATGGCAAGGAAGTTTGATGTGCTCCGT
GCCATAGAATTGTTCCACTCCTACAGAGAAACTCGAAGGAAGGAAGGCATTGTAAAGCTG
AAACCTCATGAGGAACCTCTTCGTTCTGAGATCCTCAGTGGAAAATTCACCATCTTAAAT
GTTCGGGACCCAACAGGAGCCTCCATTGCCCTCTTTACTGCCAGGTTGCATCATCCCCAC
AAGTCAGTCCAACATGTGGTACTTCAGGCTCTGTTTTACTTGCTAGACAGAGCTGTGGAT
AGCTTTGAAACTCAGAGGAATGGACTGGTGTTTATCTATGACATGTGTGGTTCTAATTAT
GCCAACTTTGAGCTGGATCTTGGCAAGAAAGTCCTAAACCTGCTGAAGGGAGCATTTCCA
GCTCGTTTGAAGAAGGTGCTGATTGTGGGGGCACCCATATGGTTCCGAGTGCCCTATTCC
ATCATCAGTCTCCTCCTGAAGGACAAAGTCCGGGAGNNNATTCAAATATTAAAGACATCT
GAGGTCACGCAGCATCTGCCCAGGGAGTGTCTTCCAGAAAACCTGGGTGGGTACGTCAAA
ATTGATCTCGCCACTTGGAATTTCCAGTTCCTACCCCAGGTGAACGGCCACCCAGATCCC
TTCGATGAGATCATCCTGTTCTCCCTCCCTCCTGCCTTAGACTGGGACTCAGTACATGTT
CCAGGTCCCCATGCTATGACCATCCAAGAGTTGGTGGACTATGTTAATGCCAGGCAAAAG
CAAGGAATCTATGAGGAATATGAAGACATTCGTCGTGAGAACCCTGTTGGCACTTTCCAC
TGTTCCATGTCTCCAGGAAACCTAGAGAAAAACCGTTATGGGGATGTACCCTGCCTGGAC
CAAACTAGAGTGAAGCTAACAAAGCGAAGTGGCCATACTCAGACAGATTACATCAATGCC
AGTTTCATGGATGGCTACAAGCAGAAGAATGCTTACATTGGCACACAAGGTCCTTTGGAG
AATACCTATCGTGATTTCTGGCTCATGGTATGGGAGCAAAAAGTCTTGGTGATTGTCATG
ACCACCCGCTTTGAGGAAGGCGGCAGGAGAAAGTGTGGCCAGTACTGGCCTTTAGAAAAA
GACTCTCGGATCCGATTTGGCTTCCTCACAGTGACCAATCTAGGCGTGGAGAACATGAAT
CATTATAAGAAAACAACGCTAGAAATTCACAACACAGAGGAACGGCAGAAACGCCAGGTG
ACCCACTTCCAGTTCTTGAGCTGGCCAGACTATGGTGTCCCTTCCTCAGCAGCTTCCCTC
ATTGACTTCTTGAGAGTGGTCAGAAACCAGCAGAGTCTGGCTGTGAGCAACATGGGAGCA
CGCTCCAAAGGGCAGTGCCCTGAGCCACCCATTGTGGTCCATTGCAGTGCAGGCATTGGC
AGGACAGGTACCTTCTGCTCACTGGACATCTGCCTGGCACAGCTGGAGGAGCTTGGCACC
CTTAATGTGTTCCAGACGGTGTCACGCATGAGGACCCAGAGGGCCTTCAGCATCCAGACC
CCTGAGCAGTACTATTTTTGCTACAAGGCCATCCTGGAGTTCGCAGAGAAGGAGGGCATG
GTATCCTCTGGCCAAAACCTGCTGGCCGTGGAGAGTCAGTAA

Clone variation with respect to NM_002833.2
637 a=>n;638 g=>n;639 g=>n

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002833 unedited
NGTCAGAATTTGTATACGACTCACTATAGGCGGCCGCGAATTCGCACGAGGCCCGCTCCT
CCACAGCGCCACANAGCTCGGGAGGAGCGGGAGCGCGGCCGAGGAAGCGGGGCGCCGAGG
GGGTCGGCGGCCTTCGGGAAATTTCCGCCGACCCTTCGCTCCCGGCTCTAAAAGTTCCTG
ATTTCCTATTTCCTTTTAAATCCCGAGTGGCTGTTAGCTCTTCGCCTGCACTTTTTCTTC
CCCAGGAGATAAGGGGGAGTGTGAGGAACGGAGCGAATAATATAAAAAAGGATTTCCTCC
CGGAAGAGAGCGGCAGTTCGGAGAGATTTTTCTTAAGGAAGCAGAAGCGGCGTTTGCGGC
CGCTGCAGGCGCCGGGCCCTGCCGGCCACACTATGCGCGAGCCGGCCCCGGGCTGCTGAG
GCGCGGGGACGCGGAAGCGGAGGCCGAGCGCGCCGGGCTCCCGCGCTCGCGAGCGAGTTT
TGTCCGCCCGGCGGCGGTGGCGGGGGGATGGAGCCCGCGACCGCGCCCCGGCCCGACATG
GCGCCGGAGCTGACCCCGGAGGAGGAGCAGGCTACCAAGCAGTTTCTCGAAGAGATTAAC
AAGTGGACAGTTCAGTACAATGTTTCCCCGCTGTCTTGGAATGTGGCTGTCAAGCTCCTC
ATGGCAAAGAAGTTTGATGTGCTCCGTGCCATAGAATTGCTCCCCTCCTACAGAGAAACC
CCAAAGAAAGGAAGGCATTGTAAAGCTGAACCCTCATGAGGAACCTCCTCGTTCTGAGAT
CCTCAGTGGAAAATTCCCATCCTAACAGTTCGGGACCCACCAGCACCCCCATTGCCTCTT
TACTGCCGGGTGCATCATCCCCCAAGTCAGCCACCTGTTGTCCTTCAGCCCCTGTTTCAT
TGCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002833 unedited
ATGGACGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTGATATGTCGGTATA
TTTATATGTAAATACAAAACTGTATCACTGTAAGATATTGAATATGAACATTACAATTAT
TTTCTGAATCAGACTCAGTCCATTGATATTAAATACAAAATGAAATGATTGTAAAAAATA
ATAATATACACATTCAAAGAGCTTATTACAGTATAAAATTATTGAGGTCTGATCAGCTGC
CAACCTCATCTTCTGTCACAGGGGAAGGTTTAGGAGTTCCTGGGATTTTTTGGGAATGTG
GAGTGCTGAGGACTCTTGATTTATCCCTAGCACATAAGGATGAGTGGGCTGGGAGCAGGC
AGGGACAGGTTGGGTGGGTAGGGGACAAACAGTGATTGCAGGGGACCACCTCACTCAGCC
AGGGGGTGAAGCTTTTTATTGACACAGAACCCACCCAGTTTGAGGGTCTAGCAGGCTANC
AGGCAGGAAGAGATGGGCATCTCGGTAGACAGGGCCAAGCTGCATAAAGGAACCATCCAG
CAAAAGAAAAAGGGCCCCAGCTCATCCTCCCAGGGAGGTATTTTCTTAGTGGTTTTTTCT
TTCTCATACCTGGGCTCCCCCTCCTTCCTTCTAGATTCGTACCGATTGCATTTGGCTCTG
GCTGCTCAGTGAGTTCATTTCTACCCTCCGCCTNCCATCCCTGGGATAGTGAAAGCAAGA
GAGAGTATGGAATCACAGTGGAGTCTTGTCCCCAATTGGCCAGTAATGTAAAAAATCATC
GATAGGGAAATCATGCTGACTAACCAAGGTACACAAACTATCATTCTTGCTCCACAGTGG
CACTGGAAGAAAAATCATACTAGGAAAGGGCTGTGCAGACATGAAGAATGT

Restriction Sites: NotI-NotI

ACCN: NM_002833

Insert Size: 4050 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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
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_002833.2, NP_002824.1
RefSeq Size:	3956 bp
RefSeq ORF:	1782 bp
Locus ID:	5780
UniProt ID:	P43378
Cytogenetics:	15q24.2
Domains:	Y_phosphatase, SEC14, 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 PTP contains an N-terminal domain that shares a significant similarity with yeast SEC14, which is a protein that has phosphatidylinositol transfer activity and is required for protein secretion through the Golgi complex in yeast. This PTP was found to be activated by polyphosphoinositide, and is thought to be involved in signaling events regulating phagocytosis. [provided by RefSeq, Jul 2008]