

Product datasheet for **RC214337**

MEG2 (PTPN9) (NM_002833) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MEG2 (PTPN9) (NM_002833) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MEG2
Synonyms:	MEG2; PTPMEG2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC214337 representing NM_002833
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGCCCGCGACCCGCCCCGCCCCGACATGGCGCCGAGCTGACCCCGAGGAGGAGCAGGCTACCA
 AGCAGTTTCTCGAAGAGATTAACAAGTGGACAGTTCAGTACAATGTTTCCCGCTGTCTTGAATGTGGC
 TGCAAGTTCTCATGGCAAGGAAGTTTGTGTCTCCGTGCCATAGAATTGTTCCACTCTACAGAGAA
 ACTCGAAGGAAGGAAGGCATTGTAAAGCTGAAACCTCATGAGGAACCTCTCGTTCTGAGATCCTCAGTG
 GAAAATTCACCATCTAAATGTTTCGGGACCCAACAGGAGCCTCCATTGCCCTCTTACTGCCAGGTTGCA
 TCATCCCCACAAGTCAGTCCAACATGTGGTACTTCAGGCTCTGTTTTACTTGCTAGACAGAGCTGTGGAT
 AGCTTTGAAACTCAGAGGAATGGACTGGTGTATCTATGACATGTGTGGTTCTAATTATGCCAAGTTG
 AGCTGGATCTTGCAAGAAAGTCTAAACCTGCTGAAGGGAGCATTTCAGCTCGTTTGAAGAAGGTGCT
 GATTGTGGGGCACCCATATGGTCCGAGTGCCCTATTCCATCATCAGTCTCCTCTGAAGGACAAAGTC
 CGGGAGAGGATCAAATATTAAGACATCTGAGGTCACGCAGCATCTGCCAGGGAGTGCTTCCAGAAA
 ACCTGGGTGGGTACGTCAAATTTGATCTCGCCACTTGGAAATTTCCAGTCTCTACCCAGGTGAACGCCA
 CCCAGATCCCTTCGATGAGATCATCCTGTTCTCCCTCCCTCCTGCCTTAGACTGGGACTCAGTACATGTT
 CCAGGTCCCCATGCTATGACCATCCAAGAGTTGGTGGACTATGTTAATGCCAGGCAAAAGCAAGGAATCT
 ATGAGGAATATGAAGACATTCGTCGTGAGAACCCTGTTGGCACTTTCCACTGTTCCATGTCTCCAGGAAA
 CCTAGAGAAAAACCGTTATGGGGATGTACCCTGCCTGGACCAACTAGAGTGAAGCTAACAAAGCGAAGT
 GGCCATACTCAGACAGATTACATCAATGCCAGTTTCATGGATGGCTACAAGCAGAAGAATGCTTACATTG
 GCACACAAGGTCCTTTGGAGAATACCTATCGTGATTTCTGGCTCATGGTATGGGAGCAAAAAGTCTTGGT
 GATTGTGATGACCACCCGCTTTGAGGAAGCGGCAGGAGAAAGTGTGGCCAGTACTGGCCTTTAGAAAAA
 GACTCTCGGATCCGATTTGGCTTCTCACAGTGACCAATCTAGGCGTGGAGAATGAATCATTATAAGA
 AAACAACGCTAGAAATTCACAACACAGAGGAACGGCAGAAACGCCAGGTGACCCACTTCCAGTCTTGAG
 CTGGCCAGACTATGGTGTCCCTTCTCAGCAGTTCCTCATTGACTTCTTGAGAGTGGTCAAGAACAG
 CAGAGTCTGGCTGTGAGCAACATGGGAGCACGCTCAAAGGGCAGTGCCTGAGCCACCCATTGTGGTCC
 ATTGCAGTGCAGGCATTGGCAGGACAGGTACCTTCTGCTCACTGGACATCTGCCTGGCACAGCTGGAGGA
 GCTTGGCACCCCTAATGTGTTCCAGACGGTGTACGCATGAGGACCCAGAGGGCCTTCCAGATCCAGACC
 CCTGAGCAGTACTATTTTGTACAAGGCCATCCTGGAGTTCGCAGAGAAGGAGGCATGGTATCCTCTG
 GCCAAAACCTGTGGCCGTGGAGAGTCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC214337 representing NM_002833
 Red=Cloning site Green=Tags(s)

MEPATAPRPDPAPELTPEEEQATKQFLEEINKWTVQYNVSPLSWNVAVKFLMARKFDVLRRAIELFHSYRE
 TRRKEGIVKLPHEEPLRSEILSGKFTILNVRDPTGASIALFTARLHHPKSVQHVVQLALFYLLDRAVD
 SFETQRNGLVFIYDMCGSNYANFELDLGKKVLLKGAFFARLKKVLIVGAPIWFRVPYSIISLLKDKV
 RERIQILKTSEVTQHLPRECLPENLGGYVKIDLATWNFQFLPQVNGHPDPFDEIILFSLPPALDWDVSVHV
 PGPHAMTIQELVDYVVARQKQGIYEEYEDIRRENVPVGTFFHCSMSPGNLEKNRYGDVPCLDQTRVKLTKRS
 GHTQTDYINASFMDGYKQKNAYIGTQGPLENTYRDFWLMVWEQKVLVIVMTTRFEEGRRKCGQYWPLEK
 DSRIRFGFLTVTNLGVENMNHKKTTLEIHNTTEERQKRQVTHFQFLSWPDYGVPSAASLIDFLRVVRNQ
 QSLAVSNMGARSKGQCPEPPIVVHCSAGIGRTGTFCSLDICALQLEELGTLNVFQTVSRMRTQRAFSIQT
 PEQYYFCYKAIILEFAEKEGMVSSGQNLAVESQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8115_b10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002833

ORF Size: 1779 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](#)

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_002833.4](#)

RefSeq Size: 3956 bp

RefSeq ORF: 1782 bp

Locus ID: 5780

UniProt ID: [P43378](#)

Cytogenetics: 15q24.2

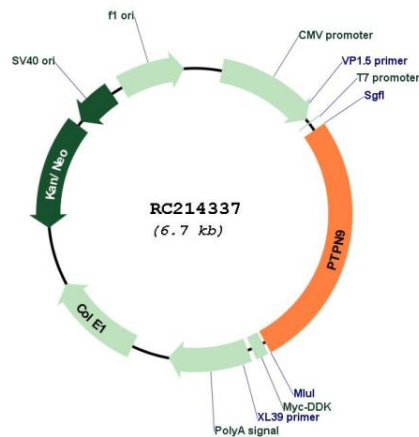
Domains: Y_phosphatase, SEC14, PTPc_motif

Protein Families: Druggable Genome, Phosphatase

MW: 67.8 kDa

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]

Product images:



Circular map for RC214337