

Product datasheet for **RG202072**

MEG1 (PTPN4) (NM_002830) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MEG1 (PTPN4) (NM_002830) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MEG1
Synonyms:	MEG; PTPMEG; PTPMEG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG202072 representing NM_002830
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCTCACGTTCCGATTGCCTGCTGGCAGAACCTACAATGTACGAGCATCAGAGTTGGCCCGAGACA
 GACAGCATACTGAAGTGGTTTGGCAACATCCTTCTCTGGATAAAGCTGTACAAGCTTCAAAGTCAATAA
 ACATGATCAGGGGCAAGTCTTGTGGATGTCGTCTTCAAGCATCTAGATTTGACTGAGCAGGACTATTTT
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 AGCTAAAGAGAGGATCTCCTTACAGTTTGAACCTTAGAGTCAAATTTTTGTAAGTGACCCCAACAAGTT
 ACAAGAAGAATATAACAAGTACCAGTATTTTTGCAAATTAACAAGACATTCTTACTGGAAGATTACCC
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 GCACGTACCTTAGAACTCTATGGAGTTGAATCCACTATGCAAGGGATCAGAGTAAACAATGAAATATGA
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 GTTTATGAAGAAGGCTTTGTTAAACCTTAACAACATCAACAAAATAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG20272 representing NM_002830
 Red=Cloning site Green=Tags(s)

MTSRFRLPAGRTYNVRASELARDRQHTTEVVCNILLDDNTVQAFKVNKHDQGQVLLDVVFKHLDL TEQDYF
 GLQLADDSTDNPRWLDPNKPIRKQLKRGSPYSLNFRVKFFVSDPNKLQEEYTRYQYFLQIKQDILTGRLP
 CPSNTAALLASFVQSELGDYDQSENLSGYLSDYSFIPNQPDFFEKI AKLHQQHIGLSPAEEFNLYLNT
 ARTLELYGVEFHAYARDQSNNEIMIGVMSGGIL IYKNRVRMNTFPWLKIVKISFKCKQFFIQLRKELHESR
 ETLLGFNMVNYRACKNLWKACVEHHTFFRLDRPLPPQKNFFAHYFTLGSKFRYCGRTEVQSVQYGKEKAN
 KDRVFA RSPSKPLARKLMDWEVVSRSNISDDRLETQSLPSRSPGTPNHRNSTFTQEGTRLRPSVGHV
 DHMVHTSPSEVFNQRSPSTQANSIVLESSPSQETPGDGKPPALPPKQSKKNSWNQIHYSHSQQDLESH
 INETFDIPSSPEKPTPNGGIPHDNLVLIRMKPDENGRFGFNVKGGYDQKMPVIVSRVAPGTPADLCVPR
 NEGDAQVLLINGRDIAEHTHDQVVLFIKASCERHSGELMLLVRPNAVYDVVEKLENEPDFQYIPEKAPLD
 SVHQDDHSLRESMIQLAEGITGTVL TQFDQLYRKKPGMTMSCAKLPQNI SKNRYRDISPYDTRVILKG
 NEDYINANYINMEIPSSIIINQYIACQGPLPHTCTDFWQMTWEQSSMVVMLTTQVERGRVKCHQYWPEP
 TGSSSYGICYQV TCHSEEGNTAYIFRKMTL FNQEKNESRPLTQIQYI AWPDHGVPDDSSDFLDFVCHVRNK
 RAGKEEYVVVHCSAGIGRTGVLITMETAMCLIECNQPVYPLDIVRTMRDQRAMMIQTSPSYRFVCEAILK
 VYEEGFVKPLTTSTNK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

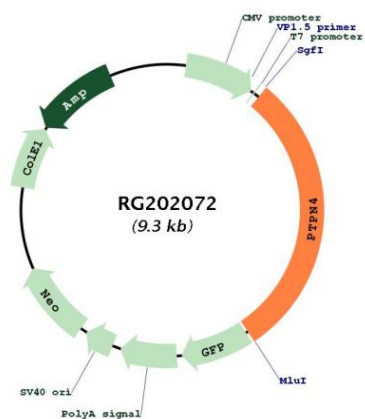
Cloning Scheme:



ACCN: NM_002830

ORF Size:	2778 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:	<ol style="list-style-type: none">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_002830.4
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]

Product images:



Circular map for RG202072