

Product datasheet for **MR211140**

Fig4 (NM_133999) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fig4 (NM_133999) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fig4
Synonyms:	A530089I17Rik; AI326867; Sac3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR211140 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCACGGCCGCTGCCCCATCATCAGCTCGGTCCAGAAGCTGGTGTGTATGAGACCAGAGCTAGT
 ACTTTCTAGTTGGGAGCAATCATGCAGAAACGAAGTACCGTGTCTGAAAATTGATAGAACAAGAACCGAA
 GGACTTGGTGGTAAATCGACGACAGGCACGTGTACACACAACAAGAAGTGAGGGAACCTTTGGCCGCTG
 GATCTGGGAAACAGAACAAGATGAGCCAGAAAGGATCCTCCGGGTTGTTTCGAGCCGTCTCAGCTTTTG
 GAGTCGTAGGTTTTGTCAGGTTCTTAGAAGGCTACTATATTGTATTAATAACTAAGCGGAGGAAGATGGC
 AGACATTGGAGGTCATGCAATTTATAAGATTGAAGATACAAGTATGATTTATATCCCAATGACTCTGTT
 CGGATTTCTACCCCGACGAAGCTAGGTATCTAAGGATATTTCAAATGTGGATCTATCTAGCAATTTTT
 ACTTTAGTTACAGCTATGATTTGTCACACTCACTTCAGTATAATCTTACCGTCTCGGAATGCCCTGGA
 GATGTTAAAGTCAGAAACATCCAAGGCGTGCCAGGAGAGCTTCGACATCTTTGAAGATGAAGGATTAATT
 ACACAGGGTGGCAGTGGTGTATTTGGGATCTCTAGTGAGCCTTATATGAAGTATGTATGGAACGGTGAAC
 TTCTGGATATAATTA AAAACACTGTGCATCGTACTGGCTATTGTATATCATTATGGGTTCTGCGGGCA
 GTCCAAGCTTTTGATCTATGGACGACAGTGTATGTGACCCTAATAGCCAGGAGATCCAGTAGGTTTGCT
 GGGACGCGCTTTCTCAAGAGAGGCGCAAACGTGAGGGTGACGTTGCAAAATGAGGTGGAGACCGAGCAGA
 TCCTCTGTGATGCTTCTGTGATGCTTTTACCGCAGGCAGTTACTCTTCTACGTACAAGTTAGAGGATC
 CGTTCCTTATTCTGGTCCCAAGACATCTCAACTATGATGCCGAAACCACCCATTACACTGGACCAGGCG
 GATCCCTTTGCACACGTGGCTGCTTTCCTTTGACCAGATGCTCCAGAGGTTCCGGTCCCCATCATCA
 TCTTGAACCTTAGTGAAGGAGAGGAGAAGAGAAGCAGAAAGGATCCTGAGTGAAGAGCTGGTGGCTGC
 GGTCACCTACCTGAACCAAGTTCCTGCCACCGGAGCACACCAATTGTCTACATCCCTGGGACATGGCCAAG
 TACACCAAGAGTAAGCTGTGCAACGTTCTCGATCGGCTGAATGTGATTGCGGAAAGCGTGGTAAAGAAGA
 CAGGATTTCTTTGTAACCGCCCTGATTCTTACTGCAGCATTTTACGGCCAGATGAAAAGTGAATGAACT
 AGGAGGTCATGTGATTCCCACTGGTCCGCTCCAGACTGGCATCCTTCGAACCAACTGTGTGGACTGTTTG
 GATCGCACCAACTGCGCAGTTCATGGTGGGCAAGTGTGCCCTGGCTTACCAGCTGTATTCCTTAGGGC
 TGATTGACAAGCCTAACCTGCAGTTCGACACGGATGCAGTGAGGTTGTTTGAAGAACTCTATGAAGACCA
 TGGAGACACCCTTCCCTGCAGTACGGAGGCTCTCAGCTGGTTCATCGGGTAAAGACCTACAGAAAGATA
 GCACCGTGGACCCAGCACTCCAAGGACATCATGCAGACTCTGTCCGGTACTACAGCAACGCCTTCTCGG
 ATGCTGATAGACAAGATTCCATCAACCTGTTTTGGGTGTTTTCCACCCACAGAAGGAAACCTCATCT
 CTGGGAACTCCCCACAGACTTTTACCTCCATCACA AAAACACCATGAGCCTTTTACCCCCAGAAGGAGT
 TATACTTACTGGTGGACGCCAGAGGTGGTGAAGCATCTGCCGCTGCCTTACGATGAAGTTATCTGTGCTG
 CAAACTTAAAGAAGTTGATGGTGAAGAAATTTACAGATGGGAAGAAGAGATTGATTCACAATGAGTT
 CTTCCGGCCGATGAATTGAGTAGTTTTGATGACACCTTTTGCTTGCCATGACAAGTTCAGCACGTGAT
 TTTATGCCTAAAACCTGTTGGCATTGATCCAAGTCCATTTACCGTGCGAAAACAGATGAAACTGAAAAAT
 CTGTACTGGGGAACAAAAACACTAGAGAGGAAGCTGTCTGCAGCGGAAGACGGCAGCCAGCGCCCGCC
 ACCCCGAGCGAGGAGGCTGTGTCCAGCAGCTCTGAGGATGACTCTGGCACCGACCGGGAAGATGAAGGC
 TCCATCTCTCAGCGATCCACTCCTGTGAAGATGACTGACACGGGAGACAGTGCCAAAGCGACTGAGAATG
 TGGTCCAGCCATGAAGGAAGTGTATGGAGTCACTCTCCAGTAGCCTGTGAGGAGGATCACTCCAT
 TTATGCCAGGTTTGTTCAGCTGGGGCAAAGTCAACATAAACAGGACCGAGGTAACAGCAGCTGTGTTCC
 CGTTGCTCAGATGGAGTTATAAACTAACTCCCATCTCAGCTTTCTCGCAAGACAACATTTATGAAGTTC
 AGCCTCCAAGAGTAGACAGAAAGTCTACAGAGATCTTCCAGGCCATATCCAAGTAGCCAAGGTATCAT
 GCAGCCCTTGGCAAAGAGGACTGCCATGTACCGGAGTACATCAGAAACCGCTACTTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR211140 protein sequence
 Red=Cloning site Green=Tags(s)

MPTAAAPIISSVQKLVLYETRARYFLVGSNHAETKYRVLKIDRTEPKDLVVIDDRHVYTQQEVRELLGRL
 DLGNRTKMSQKSSGLFRAVSAGVGVFVRFLEGGYIVLITKRRKADIGGHAIYKIEDTSMIYIPNDSV
 RISHPDEARYLRIFQNVLDSSNFYFSYSYDLSHSLQYNLTVLRMPLEMLKSETSKACQESFDIFEDEGLI
 TQGGSGVFGISSEPYMKYVWNGELLDIIKNTVHRDWLLYIIHGFCGQSKLLIYGRPVYVTLIARRSSRFA
 GTRFLKRGANCEGDVANEVETEQLCDASVMSFTAGSYSSVYVQVRSVPLFWSQDIDSTMPKPPITLDQA
 DPFAHVAALHFDQMLQRFSPIIILNLVKEREKRKHERILSEELVAAVTYLNQFLPPEHTIVYIPWDMAK
 YTKSKLNCVLDRLNVIAESVVKKTGFFVNRPDSCYCSILRPDEKWNELGGHVIPTGRLQTGILRTNCVDCL
 DRTNTAQFMVGKCALAYQLYSLGLIDKPNLQFDTDAVRLFEELYEDHGDLSLQYGGSQLVHRVKYRKI
 APWTQHSKDIMQTL SRYYSNAFSDADRQDSINLFLGVFHPTEGKPHLWELPTDFYLHHKNTMSLLPPRRS
 YTYWWTPEVVKHLLPYDEVICAAANLKKLMVKKFHRWEEEDIHNEFFRPYELSSFDDTFLCLAMTSSARD
 FMPKTVGIDPSPFTVRKPDETGKSVLGNKNTREEAVLQRKTAASAPPPSEEAVSSSEDDSGTDREDEG
 SISQRSTPVKMTDTGDSAKATENVVQPMKEVYGVSLSSSLSEEDHSIYARFVQLGQSQHKQDRGNQQLCS
 RCSDGVIKLTPISAFSQDNIYEVQPPRVDRKSTEIFQAHIQASQGMQLGKEDTAMYREYIRNRYL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

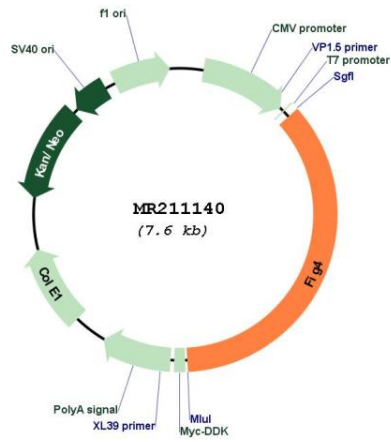
Cloning Scheme:



ACCN: NM_133999

ORF Size:	2724 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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_133999.1 , NP_598760.1
RefSeq Size:	3278 bp
RefSeq ORF:	2724 bp
Locus ID:	103199
UniProt ID:	Q91WF7
Cytogenetics:	10 B1
MW:	103.4 kDa
Gene Summary:	<p>The PI(3,5)P2 regulatory complex regulates both the synthesis and turnover of phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2). In vitro, hydrolyzes all three D5-phosphorylated polyphosphoinositide substrates in the order PtdIns(4,5)P2 > PtdIns(3,5)P2 > PtdIns(3,4,5)P3. Plays a role in the biogenesis of endosome carrier vesicles (ECV) / multivesicular bodies (MVB) transport intermediates from early endosomes.[UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for MR211140