

Product datasheet for **MC221596**

Vac14 (NM_146216) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vac14 (NM_146216) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Vac14
Synonyms:	AA959718; BC032215; D8Wsu151e; ingls; Tax1bp2; Trx
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC221596 representing NM_146216
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACCCAGAGAAGGATTTTGCGCCGCTCACTCCCAACATCGTAAGGGCCCTGAATGATAAACTCTACG
 AAAAGCGGAAGGTTGCAGCGCTGGAGATCGAGAAGCTGGTGCGGGACTTTGTGGCCAGAACCAACCCAT
 GCAAATCAAGCACGTGATCCAGACCCTGTCTCAGGAGTTTGCCTGTCCCAGCACCCACAGCCGGAAA
 GGGGGCCTCATCGGTCTGGCAGCCTGCTCTATTGCCCTAGGCAAGGACTCAGGGCTCTACCTGAAGGAGC
 TGATAGAGCCAGTGTGACCTGCTTTAATGACGCAGACAGCAGGCTGCGCTACTACGCTTGTGAGGCCCT
 CTACAATATCGTCAAAGTGGCCGAGGTGCCGTGCTGCCGCACTCAATGTTCTCTTCGATGGACTGAGT
 AAGTTGGCTGCTGACCCAGACCCCAATGTGAAAAGTGGATCTGAGCTCCTGGACCGCCTCTAAAGGACA
 TTGTGACAGAAAGCAGCAAGTTTACCTGGTGAGCTTCATCCCCCTTTTGCGGGAGAGGATTTACTCAA
 CAACCAATACGCCGACAGTTCATCATCTCCTGGATCCTGGTTCTGGTGTGGTCCAGACATTAACCTG
 CTGGATTACCTGCCAGAGATCCTAGATGGGCTCTCCAGATCCTGGGTGACAATGGCAAGGAGATTCGGA
 AAATGTGTGAGGTGGTTCTTGGAGAGTTCTTGAAGAAATTAAGAAGAACCCATCCAGTGTGAAGTTTGC
 TGAGATGGCCAACATCCTGGTATCCACTGCCAGACCACAGATGACCTGATTACGCTGACGGCTATGTGC
 TGGATGCGGGAATTCATCCAGCTGGCGGCCGGTAATGCTGCCCTATTCCTCTGGGATCCTGACTGCTG
 TCCTGCCATGCTTGGCCTATGATGACCGCAAGAAAAGTATCAAGGAGGTGGCCAAATGTGTGAACAGAG
 CTTGATGAAGCTGGTCAACCTGAGGATGATGAACCCGATGAGCCAAAGTCAAGTACAGACAGAACAGACC
 GAACCAACCTGAGGATTCCTGCCAAAGCAGGAGGGGACAGCCAGTGGAGTCCAGGTTCTCTGTACT
 CCAGCTTTGGAAGTGGCATCAATGTCTTACCTCAGCCAACACTGATAGGGCTCCAGTACCCTGCACCT
 GGACGGGATTGTTCAAGTCTGAACTGTACCTTAGTGACACAACCATTGGGATGATGACCAGGATTGCT
 GTTCTGAAGTGGCTTACCATCTCTACATCAAACTCCTCGAAAGATGTTCCGGCACACAGACAGCCTCT
 TCCCCATTTACTTACAGACATTATCTGACGAATCTGATGAGGTTGTCTTGAAGGATCTGGAAGTGTGGC
 AGAAATTGCTTCTCCCCTGCAGGCCAGACGGATGACCCAGGTGCACCTGATGGCCCTGACCTCCGAGTC
 AACCACTCGGAGCTTCAAGTGGCCACCTCCGGCAGAGCCAACCTACTAAACCTCCAGTACCAAAGGCT
 TAGAAGGCTCCCCTCCACTCCCACCATGAACTCTACTTTTACAAGTTCATGATCAACCTTCTACAGAC
 GTTCAGCAGTGAACGGAAGCTCCTGGAGGCCAGAGGCCGTTTCATCATCAGGCAGCTCTGCCTCCTGCTG
 AATGCAGAGAACATCTTCCATTCATGGCAGACATCCTGCTTCGGGAGGAGGACCTCAAGTTCGCGTCCA
 CCATGGTGACACCCCTAACACCATCCTGCTCACCTCCACCGAGCTCTTCCAGCTGAGGAACCAGCTCAA
 GGACCTGCAGACCCCGAAAGCCAGAACCTCTTCTGCTGCCTGTACCGCTCCTGGTGCCACAACCCAGTC
 ACCACCGTGTCCCTCTGCTTCTCACCCAGAACTACCGCCACGCCTATGACCTCATCCAGAAGTTTGGGG
 ACCTGGAAGTACAGTGGATTTCTCACAGAGGTGGACAACTCGTGCAGCTAATTGAGTGCCCCATCTT
 TACATATCTACGCTGCAACTGTGGACGTGAAGAACAACCCATACCTGATCAAGGCCCTGTACGGCCTG
 CTCATGCTGTTGCCCCAGAGCAGTGCCTTCCAGCTGCTCTCTACCGGCTCCAGTGTGTGCCAACCCCTG
 AGCTGCTGCAGACTGAAGACTGTCTGAAAGCGGCCCCCAAGTCCAGAAAGGTGACTCCCCAGCATCGA
 CTACACAGAGCTGCTGCAGCACTTTGAAAAAGTCCAGAAACAGCACCTGGAAGTAAGACACCAGCGCAGT
 GGGCGAGGGGATCACCTGGACCGCAGAGTTATCCTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_146216
Insert Size: 2349 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:	<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_146216.2 , NP_666328.2
RefSeq Size:	3053 bp
RefSeq ORF:	2349 bp
Locus ID:	234729
UniProt ID:	Q80WQ2
Cytogenetics:	8 57.59 cM
Gene Summary:	The PI(3,5)P2 regulatory complex regulates both the synthesis and turnover of phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2). Acts as a positive activator of PIKfyve kinase activity. Also required to maintain normal levels of phosphatidylinositol 3-phosphate (PtdIns(3)P) and phosphatidylinositol 5-phosphate (PtdIns(5)P). Plays a role in the biogenesis of endosome carrier vesicles (ECV) / multivesicular bodies (MVB) transport intermediates from early endosomes.[UniProtKB/Swiss-Prot Function]