

Product datasheet for **MC221574**

Vps51 (NM_001081041) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vps51 (NM_001081041) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Vps51
Synonyms:	1110014N23Rik; 3110057M17Rik; AI837850; Ffr
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221574 representing NM_001081041
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCTGCGGCAGCTGTGGGCGCTGGCCTAGGGTCCGGGCTGGAGACTCCCCAGAAGTCCCAGG
 CGGACGCTCCGGAGCGTCGGCGGAAGGCTCACGGGATGCTGAAGCTTTACTACGGCCTCTCGGAGGGGA
 GGTGGCGGGGCATCCCGCAGGGCCTGACCTCTGGACCCAACCGATCTCAATGGGGCGCACTTCGACCCG
 GAAGTTTATCTTGACAAGCTGCGTAGAGAATGTCTCTGGCCAGCTGATGGACAGTGAGACGGACATGG
 TACGGCAGATCCGGGCTCTAGACAGCGACATGCAGACCCTGGTCTATGAGAACTACAACAAGTTCATCTC
 AGCTACAGACACCATTGAAAGATGAAGAATGACTTCCGGAAGATGGAAGATGAGATGGACCGGCTGGCC
 ACCAACATGGCAGTGATACCAACTTCAGCGCACGGATCAGCGCCACGCTACAGGACCGACAGGCGCA
 TCACCAAGCTAGCAGGGTACATGCACTACTGCGGAAGCTGCAGTTCCTTTTTGAGCTGCCTTCGCGCT
 CACCAAGTGTGTGGAGCTGGGTGCCTATGGGCAGGCAGTGCCTATCAGGGTCGTGCCAGGGCCGTGCTG
 CAGCAGTACCAGCACCTGCCCTCCTCCGTGCCATACAGGATGACTGCCAGGTATCACAGCTCGCTTGG
 CCCAGCAGCTGCGGCAGCGCTTCAGGGAAGGCTGCTCAGGTGCCCGGAGCAGGCCGAGTGTGTGGAGCT
 GCTGCTGGCCCTGGGCGAGCCAGCTGAGGAGCTGTGCGAGGAGTTCCTGGCGCATGCGCGGGGACGGCTG
 GAGGAAGAACTGAGCAGCCTGGAGGCCAACTGGGGCCCTCCCCTCCAGCACCTGATGTGTTAGAGTTCA
 CCGACCGTGGTGGCAATGGTTTTGTAGGTGGCCTCTGCCAGGTGGCAGCAGCCTACCAAGAGCTGTTTGC
 TGCTCAGGGCCCTGCTGGTGGGAGAAGCTGGCAGCCTTTGCGCAGGAGCTGGGCGGCCCTACTTTGCA
 CTGGTTGAGCGGGCTGGCACAGGAGCAGGGTGGTAGTGACAACTCACTGCTGGTGGCGCCTAGATC
 GCTTCCACCGGCCCTGCGAGCACCTGGGGCCCTGCTGGCCGCTGCTGGGCTTTTCAGAGCTCAGCCAGA
 GATTGTGGAGCGAGTGGCCCGGAGCGCCTGAGCCACCATCTGCAGGGTCTGAAGGCTGCCTTCCTGAGC
 TCCTGACGGATGTTGCGCAGGCCCTGGCAGCACCTCGCCTAGCGGGGAAGGAGGGCCCCAGCCTGGCTG
 AGTTGCTGGCAAATGTGGCCAGCTCCATCCTAAGCCACATCAAGACGTCCTGGCTTCTGTGCATCTCTT
 TACCGCAAGGAGGTGTCCTTCTCCAATAAGCCCTACTTCAGGGGCGAGTTCGACAGCCAGGGAGTTCGT
 GAGGGCCTCATCGTGGTTTTATCCGCTCCATGTGCCAGACAGCCAGAGCTTCTGTGACAGCCCTGGAG
 AAAAGGGAGGTGCCACGCCGCTGCCCTGCTCCTGCTGCTCTCTGCCTCTGCCTGGATTATGAGACAGC
 CACCATCTCTACATCTCACACTCACTGATGAACAGTTTCTGGTGCAGGACCAGTCTCCGTTACACCC
 GTGAGCACACTGTGTGCAGAGGCCAGAGAGACAGCACGGCGGCTGCTGACTCACTATGTGAAGGTGCAAG
 GCCTGGTCATATCCAGATGCTACGTAAGAGTGTGGAGACCCGGGACTGGCTCAGTACTCTGGAGCCTAG
 GAACGTGCGTGTGTCATGAAGCGTGTGGTGGAGGACACTACAGCTATTGATGTCCAGGTGGGGCTCCTG
 TATGAAGAGGGTGTCCGGAAGGCCCAGAGCAGTACTCAAGCAAAAGGACTTTCTCTGTGTACAGCAGCT
 CCCGGCAGCAGGGCCGCTATGCACCCAGCTACACACCCAGTGTCCCATGGACACAAACCTCCTGAGCAA
 TATTGAGAAGCTGTTCTCTGAACGGATCGATGTGTTAGCCCCGTGGAATTAACAAGGTGTGCGTGTG
 ACTGGCATCATTAAAGATCAGCTTGAAGACACTACTGGAGTGTGTGCGCCTACGCACCTTTGGGCGCTTG
 GGCTGCAGCAGGTGCAGGTGACTGCCACTTCTGCAGCTTTACTTGTGGCGCTTTGTGGCTGATGAGGA
 GCTAGTGCACCTGCTGCTGGACGAAGTAGTGCCTCAGCTGCTCTGCGCTGTCCCGACCCAGTGCCCATG
 GAACCTAGTGTGTCGAGGTATCTGCGAGCGCGGCT**AG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_001081041
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:	<u>NM_001081041.1</u> , <u>NP_001074510.1</u>
RefSeq Size:	2631 bp
RefSeq ORF:	2349 bp
Locus ID:	68505
UniProt ID:	<u>Q3UVL4</u>
Cytogenetics:	19 A
Gene Summary:	Acts as component of the GARP complex that is involved in retrograde transport from early and late endosomes to the trans-Golgi network (TGN). The GARP complex is required for the maintenance of protein retrieval from endosomes to the TGN, acid hydrolase sorting, lysosome function, endosomal cholesterol traffic and autophagy. VPS51 participates in retrograde transport of acid hydrolase receptors, likely by promoting tethering and SNARE-dependent fusion of endosome-derived carriers to the TGN. Acts as component of the EARP complex that is involved in endocytic recycling. The EARP complex associates with Rab4-positive endosomes and promotes recycling of internalized transferrin receptor (TFRC) to the plasma membrane.[UniProtKB/Swiss-Prot Function]