

Product datasheet for **MR209806**

Vps53 (BC034371) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vps53 (BC034371) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Vps53
Synonyms:	RP23-147P4.2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR209806 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATGGAGGAGGAGGAAGTGGAGTTTGTGGAGGAGCTGGAGGCTGTGCTGCAGCTCACGCCAGAGGTGC
AACTCGCCATCGAGCAGGTATCCCAAGCCAGGATCCTCTTGATCAAGCTGACTTCAATGCCGTTGAGTA
TATCAATACTCTGTTCCCAACAGAGCAATCTCTGGCAAACATTGACGATGTTGTGAACAAAATTAGACTG
AAAATAAGGAGACTGGATGACAATATCCGGACTGTCGTAAGAGGTGAGACAAATGTGGGCGAGGATGGAA
GGCAAGCACTTGAAGAGGCCAGAAAGCCATTCAGCAACTCTTTGGCAAATCAAGGATATCAAAGACAA
AGCAGAAAAGTCAGAACAATGGTGAAGAGATCACCCGAGATATTAAGCAGTTAGATCACGCCAAGCGC
CACCTGACCACCTCAATCAGACCCTGAACCACCTGCACATGCTGGCAGGCGGGGTGGACTCCCTGGAAG
CCATGACCAGGCGCAGACAGTATGGAGAAGTTGCTAATCTCCTCAGGGTGAATGAATGTTCTGGAGCA
CTTTCACAAAATACATGGGAATCCACAGATCCGACAGCTTCTGAAAGGGTGAAGGCTGCACAGACAGAG
TTAGGACAGCAAATCCTGGCTGACTTTGAAGAAGCGTTTCTTCGAGGGTACCAAGCCGAAAGGCCCA
AGGCCCGGACAACCCGTTCCACGGCATCGTTTCCAAGTGTGTTGAGCCTCATCTCTACGTGACATTGA
GTCCCAGGACAAAACCTCAGCGAGCTGATAGACCGGTTTGTGGCAGATTTCAAAGCCCAGGGCCCAACC
AAGCCCAACACTGACGAAGGGGGTGTGTGCTCCCGAGCTGCGCTGACCTCTTTGTCTACTACAAGAAGT
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CCTCCGAGAATACGCCTGGAATACTCTCTGGCAACCTGCCTAAAACCAGCAGCAGCAGTGGGGGGCTG
ACCATCAGCAGCCTCCTCAAAGAGAAGGAGGGCTCAGAAGTGGCCAGGTTCACTCTGGAGGAGCTGTGTC
TCATCTGCAGCATCCTGAGCACAGCCGAGTATTGTCTGGCTACCAACCAGCAGCTAGAAGAAAACTCAA
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CATTAAGCAAAACGTCCCATCATCCGTGACAACCTGGCTCCACACGGAAATACTTCACACAGTTCTGC
ATTAATTTGCAAATTCGTTTCAATCCCAAATTCATCACCCACCTCTTCAAGTGAAGCCGATCAGCATGG
TGGGAGCAGAGCAGCTTCTGCTGGACCCCACTCCCTGAAGATGGTCTGCTCGACCTCCCGTCCATTGG
CTCCCAGGTGGTGAAGGAGGCCCTGCCAGTTACACTAAGATTGTCGTGAAAGGCATGACCCGGGCTGAA
ATGATCCTTAAGGTGGTATGGCCCTCATGAACCGTTGGTGGTATTTGTTGACAACATCAAACTCC
TTACGGACTGCAACTCAGAAACCTTCCAGAAAATACTGGATATGAAGGGCTGAAGAGGAGTGAGCAGAG
CAGCATGCTGAACTTTTGCAGCAGAGGCTCCCTGCCCGCCCTCGGGGACAGAAGGTTCCAGCACCCCTG
TCGCTGATTGCCCAACACCGGAGCAGGAGTATCCCGAATCCGCAAACTGGAGAAAATGATTA AAAAGA
GACTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR209806 protein sequence
Red=Cloning site Green=Tags(s)

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MMEEEELEFVEELEAVLQLTPEVQLAIEQVFPDPLDQADFNAVEYINTLFPTEQSLANIDDVVNKIRL
KIRRLDDNIRTVVRGQTNVGDGRQALEEAQKAIQQLFGKIKDIKDKAEKSEQMVKEITRDIKQLDHAKR
HLTTSITLNLHMLAGGVDSLEAMTRRRQYGEVANLLQGMNVLEHFHKYMGIPQIRQLSERVKAQTE
LGQQILADFEAFPSQGTKPKPKAPDNPFHGIYSKCFEPHLYVYIESQDKNLSELIDRFVADFKAQGPP
KPNTDEGGAVLPSCADLFVYKCMVQCSQLSTGEMIALTTIFQKYLREYAWKILSGNPKTSSSSGGL
TISLLKEKEGSEVARFTLEELCLICISLSTAECYCLATTQOLEEKLEKVDVSLTERINLTGEMDTFSTV
ISSSIQLLVQDLDAACDPALIAMSMPWQNVHVGQSPYVTSVILHIKQNVPIIRDNLASTRKYFTQFC
IKFANSFIPKFITHLTKCKPISMVGAELLLDTHSLKMLLDLPSIGSQVVRKAPASYTKIVVKGMTREAE
MILKVVMAPHEPLVVFVDNYIKLLTDCNSETFQKILDMKGLKRSEQSSMLELLRQLPAPPSGTEGSTL
SLIAPTPEQESSRIRKLEKLIKRL
    
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: BC034371

ORF Size: 1965 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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC034371](#), [AAH34371](#)

RefSeq Size: 2225 bp

RefSeq ORF: 1967 bp

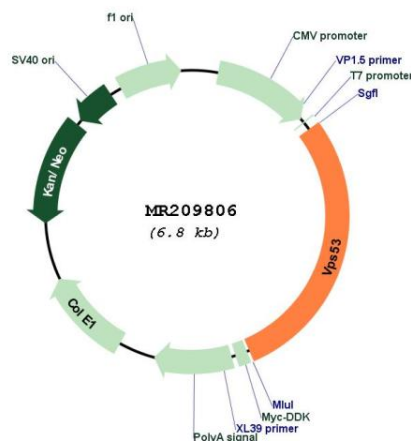
Locus ID: 68299

Cytogenetics: 11 B5

MW: 73.7 kDa

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 the cycling of mannose 6-phosphate receptors between the TGN and endosomes, this cycling is necessary for proper lysosomal sorting of acid hydrolases such as CTSD. 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]

Product images:



Circular map for MR209806