

Product datasheet for **MG209806**

Vps53 (BC034371) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vps53 (BC034371) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Vps53
Synonyms:	RP23-147P4.2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209806 representing BC034371
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGATGGAGGAGGAGGAAGTGGAGTTTGTGGAGGAGCTGGAGGCTGTGCTGCAGCTCACGCCAGAGGTGC
 AACTCGCCATCGAGCAGGTATCCCAAGCCAGGATCCTCTTGATCAAGCTGACTTCAATGCCGTTGAGTA
 TATCAATACTCTGTTCCCAACAGAGCAATCTCTGGCAAACATTGACGATGTTGTGAACAAAATTAGACTG
 AAAATAAGGAGACTGGATGACAATATCCGGACTGTCTGTAAGAGGTGAGACAAATGTGGGCGAGGATGGAA
 GGCAAGCAGCTTGAAGAGGCCAGAAAGCCATTCAGCAACTCTTTGGCAAATCAAGGATATCAAAGACAA
 AGCAGAAAAGTCAGAACAATGGTGAAGAGATCACCCGAGATATTAAGCAGTTAGATCACGCCAAGCGC
 CACCTGACCACCTCAATCAGACCCTGAACCACCTGCACATGCTGGCAGGCGGGGTGGACTCCCTGGAAG
 CCATGACCAGGCGCAGACAGTATGGAGAAGTTGCTAATCTCCTTCAGGGTGAATGAATGTTCTGGAGCA
 CTTTCACAAATACATGGGAATCCACAGATCCGACAGCTTCTGAAAGGGTGAAGGCTGCACAGACAGAG
 TTAGGACAGCAAATCCTGGCTGACTTTGAAGAAGCGTTTCCTTCGAGGGTACCAAGCCGAAAGCCCA
 AGGCCCGGACAACCCGTTCCACGGCATCGTTTCCAAGTGTGTTGAGCCTCATCTCTACGTGACATTGA
 GTCCCAGGACAAAACCTCAGCGAGCTGATAGACCGGTTTGTGGCAGATTTCAAAGCCAGGGCCCAACC
 AAGCCCAACACTGACGAAGGGGGTGTGTGCTCCCGAGCTGCGCTGACCTCTTTGTCTACTACAAGAAGT
 GCATGGTGCAGTGTCTACAGCTCAGCACAGGCGAGCCCATGATCGCCCTGACTACCATCTCCAGAAGTA
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 TCATCTGCAGCATCCTGAGCACAGCCGAGTATTGTCTGGCTACCACCCAGCAGCTAGAAGAAAACTCAA
 AGAAAAAGTTGATGTGAGCCTGACTGAACGAATTAATCTCACAGGAGAAAATGGACACATTACGACTGTC
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 GCAAGATGCCTTGGCAGAACGTGGAGCATGTTGGTGACCAGAGCCCTTATGTCACCTTCTGTTATTCTTCA
 CATTAAGCAAAACGTCCCATCATCCGTGACAACCTGGCTTCCACACGAAATACTTCACACAGTTCTGC
 ATTAATTTGCAAATTCGTTTATTCCCAAATTCATCACCCACCTCTTCAAGTGAAGCCGATCAGCATGG
 TGGGAGCAGAGCAGCTTCTGCTGGACCCCACTCCCTGAAGATGGTCTGCTCGACCTCCCGTCCATTGG
 CTCCCAGGTGGTGAAGGAGGCCCTGCCAGTTACACTAAGATTGTCGTGAAAGGCATGACCCGGGCTGAA
 ATGATCCTTAAGGTGGTATGGCCCTCATGAACCGTTGGTGGTATTTGTTGACAACTACATCAAACCTCC
 TTACGGACTGCAACTCAGAAACCTTCCAGAAAATACTGGATATGAAGGGGCTGAAGAGGAGTGAGCAGAG
 CAGCATGCTGAACTTTTGCGGCAGAGGCTCCCTGCCCGCCCTCGGGGACAGAAGGTTCCAGCACCCCTG
 TCGCTGATTGCCCAACACCGGAGCAGGAGTATCCCGAATCCGCAAACTGGAGAAAATGATTA AAAAGA
 GACTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG209806 representing BC034371
 Red=Cloning site Green=Tags(s)

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MMEEELEFVEELEAVLQLTPEVQLAIEQVFPDPLDQADFNAVEYINTLFPTEQSLANIDDVVNKIRL
KIRRLDDNIRTVVRGQTNVGDGRQALEEAQKAIQQLFGKIKDIKDKAEKSEQMVKEITRDIKQLDHAKR
HLTTSITTLNHLHMLAGGVDSLEAMTRRRQYGEVANLLQGVNVLEHFHKYMGIPQIRQLSERVAAAQTE
LGQQILADFEAFPSQGTKPKPKAPDNPFHGI VSKCFEPHLYVYIESQDKNLSELIDRFVADFKAQGPP
KPNTDEGGAVLPSCADLFVYYKCMVQCSQLSTGEPMIALTTFQKYLREYAWKILSGNLPKTSSSSGGL
TISLLKEKEGSEVARFTLEELCLICISILSTA EYCLATTQLEEKLEKVDVSLTERINLTGEMDTFSTV
ISSSIQLLVQDLDAACDPALIAMSMPWQNV EHVGDQSPYVTSVILHIKQNVPIIRDNLASTRKYFTQFC
IKFANSFIPKFITHL FKCKPISMVGAEQLLD THSLKMLVLLDLPISGSQVVRKAPASYTKIVVKGMTRAE
MILKVVMAPHEPLVVFVDNYIKLLTDCNSETFQKILDMKGLKRSEQSSMLELLRQLPAPPSGTEGSTL
SLIAPTPEQESSRIRKLEKLIKRL
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC034371

ORF Size: 1967 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.

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

RefSeq Size: 2225 bp

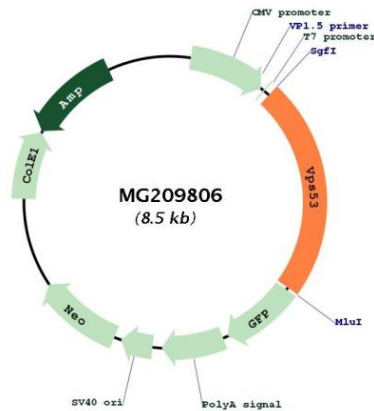
RefSeq ORF: 1967 bp

Locus ID: 68299

Cytogenetics: 11 B5

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 MG209806