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Product datasheet for MR209491

Vps52 (BC063329) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vps52 (BC063329) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Vps52
Synonyms:	D130068D18, ARE1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

View online »

ORF Nucleotide Sequence:

>MR209491 representing BC063329
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGCCGCAGCGACCATGGCGGCCGCTGCCCGGGAGCTGGTGTTGCGGGCTGGGGCCTCAGATGTGG
AGGAGGAGGAGGGCCCGCTGGGGGGGGGTTCTGGACTCCAAGAACCCCTACAACTTGGAGAGTTGGACAT
CACCTCTGATGAATTCATCTTGGATGAAGTGGATGTTCACATCCAGGCAAACCTGGAGGATGAGTTAGTG
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CCTATGTGGGGCGGCTCATGAAAGTGCAGTACGAGGAAGTTGCTGAGAAAGACGACCTAATGGGTGTTGA
AGACACAGCAAAGAAAGGCTTCTTCTCGAAGCCGTCCCTCCGAAGCAGGAACACCATCTTTACCCTTGGC
ACTCGTGGTACTGTCATCTCACCGGCCGAGCTGGAGGCCCCCATCCTAGTGCCCCATACTGCCCAACGTG
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TGAATATCTTTTCATCTGTGAATTTTTCATCGTGTCTGGCCCGGCTGCACATGACCTGTTCCACGCCGTC
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CCTGGGACAGCTCCAGGTGGAGGTGGAGAATTTTGTCCTCCGAGTGGCTGCAGAGTTCTCCTCCAGGAAG
GAGCAGCTTGTGTTTCTGATCAACAACTATGACATGATGCTCGGGGTGCTGATGGAGCGGGCTGCTGATG
ACAGCAAAGAGGTGGAGAGTTTCCAGCAGCTGCTCAATGCTCGGACACAGGAGTTCATTGAGGAGCTGCT
GTCTCCCCCCTTCGGGGGTCTGGTGGCATTCGTGAAGGAGGCTGAAGCCTTGATTGAGCGTGGGCAGGCT
GAGCGGCTCCGAGGGGAGGAAGCCCGAGTCACTCAGCTGATCCGTGGCTTTGGTAGTTCCTGGAAGGCGT
CAGTGGAGTCCCTGAGTCAGGATGTAATGCGAAGTTTTACCAACTTCCGAAATGGAACCAGCATCATCCA
GGGGGCACTGACCCAGCTGAAGAAACACAAGCCGAACTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

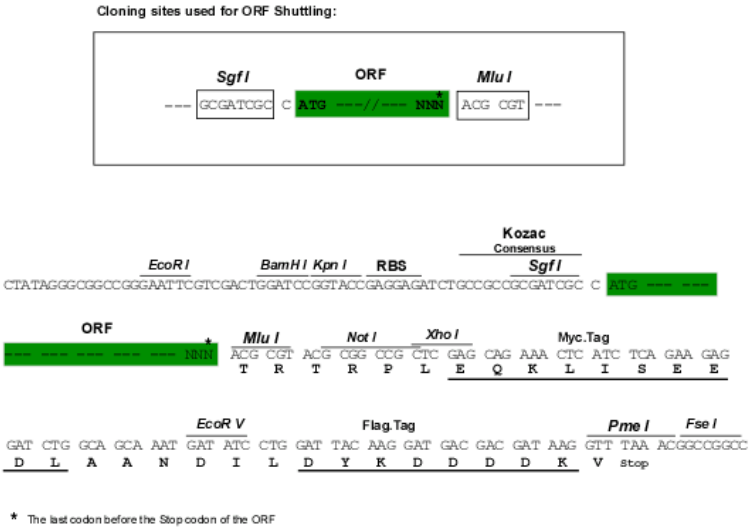
>MR209491 representing BC063329
Red=Cloning site Green=Tags(s)

MAAAATMAAAARELVLRAGASDVEEEEGPLGGGSGLQEPLQLGELDITSDEFILDEVDVHIQANLEDELV
KEALKTGVDLRHYSKQVELELQQIEQKSIRDYIQESENIASLHNQITACDAVLEPRFLEQLQELDAKAAA
VREQEAMGTAACADVRGVLDRLRVKAVTKIREFILQKIYSFRKPMTNYQIPQAALLKYRFFYQFLLGNER
ATAKEIRDEYVETLSKIYLSYYRSYVGRLMKVQYEEVAEKDDLMGVEDTAKKGFFSKPSLRSRNTIFTLG
TRGTVISPAELEAPILVPHTAQRGEQRYPFEALFRSQHYALLDNSCREYLFICEFFIVSGPAAHDLFHAV
MGRTLSMTLKHLESYLADCYDAIAVFLCIHIVLRFRNIAGKRDVPALDRYWEQVLALLWPRFELILEMNV
QSVRSTDPQRLGGLDTRPHYITRRYAEFSSALVSINQTIPNERTLQLLGQLQVEVENFVLRVAAEFSSRK
EQLVFLINNYDMMLGVLMERAADDSKEVESFQQLLNARTQEFIEELLSPPFGGLVAFVKEAEALIERGQA
ERLRGEEARVTQLIRGFGSSWKASVESLSQDVMRSFTNFRNGTSIIQGALTQLKKHKPNF

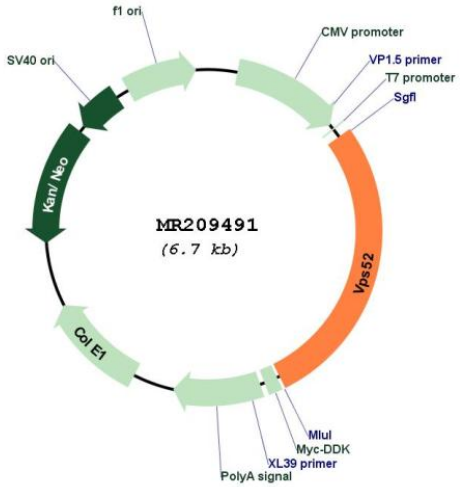
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC063329

ORF Size: 1860 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:	BC063329.1
RefSeq Size:	2460 bp
RefSeq ORF:	1862 bp
Locus ID:	224705
Cytogenetics:	17 B1
MW:	90.2 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]