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Product datasheet for RC238718

VPS33B (NM_001289149) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VPS33B (NM_001289149) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	VPS33B
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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ORF Nucleotide Sequence:

>RC238718 representing NM_001289149
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGATACATTGCCAGTCTTGTCAATGCTGACAAATTGGCTGGCCGAACTCGCAAATACAAAGTGATCT
TCAGCCCTCAAAAGTTCTATGCGTGTGAGATGGTGCTTGAGGAAGAGGGAATCTATGGAGATGTGAGCTG
TGATGAATGGGCCTTCTCTTTGCTGCCTCTTGATGTGGATCTGCTGAGCATGGAACTACCAGAATTTTTC
AGGGATTACTTTCTGGAAGGAGATCAGCGTTGGATCAACACTGTAGCTCAGGCCTTACACCTTCTCAGCA
CTCTCTATGGACCCTTTCCAAACTGCTATGGAATTGGCAGGTGCGCCAAGATGGCATATGAATTGTGGAG
GAACCTGGAGGAGGAGGAGGATGGCGAAACCAAGGGCCGAAGGCCAGAGATTGGACATATCTTTCTCTTG
GACAGAGATGTGGACTTTGTGACAGCACTTTGCTCCCAAGTGGTTTATGAGGGCCTAGTAGATGACACCT
TCCGCATCAAGTGTGGGAGTGTCGACTTTGGCCCAGAAGTCACATCCTCTGACAAGAGCCTGAAGGTGCT
ACTCAATGCCGAGGACAAGGTGTTTAATGAGATTCGGAACGAGCACTTCTCCAATGTCTTTGGCTTCTTG
AGCCAGAAGGCCCGGAACTTGCAGGCCCAGTATGATCGCCGGAGAGGCATGGACATTAAGCAGATGAAGA
ATTTCGTGTCCCAGGAGCTCAAGGGCCTGAAACAGGAGCACCGCCTGCTGAGTCTCCATATTGGGGCCTG
TGAATCCATCATGAAGAAGAAAACCAAGCAGGATTTCCAGGAGCTAATCAAGACTGAGCATGCACTGCTA
GAGGGGTTCAACATCCGGGAGAGCACCAGCTACATTGAGGAACACATAGACCGGCAGGTGTCGCCTATAG
AAAGCCTGCGCCTCATGTGCCTTTTGTCCATCACTGAGAATGGTTTGATCCCCAAGGATTACCGATCTCT
GAAAACACAGTATCTGCAGAGCTATGGCCCTGAGCACCTGCTAACCTTCTCCAATCTGCGAAGAGCTGGG
CTCCTAACGGAGCAGGCCCCCGGGGACACCCTCACAGCCGTGGAGAGTAAAGTGAGCAAGCTGGTGACCG
ACAAGGCTGCAGGAAAGATTACTGATGCCTTCAGTTCTCTGGCCAAGAGGAGCAATTTTCGTGCCATCAG
CAAAAAGCTGAATTTGATCCCACGTGTGGACGGCGAGTATGATCTGAAAGTGCCCCGAGACATGGCTTAC
GTCTTCGGTGGTGCTTATGTGCCCCTGAGCTGCCGAATCATTGAGCAGGTGCTAGAGCGGCGAAGCTGGC
AGGGCCTTGATGAGGTGGTACGGCTGCTCAACTGCAGTGACTTTGCATTCACAGATATGACTAAGGAAGA
CAAGGCTTCCAGTGAGTCCCTGCGCCTCATCTTGGTGGTGTTCTTGGGTGGTTGTACATTCTCTGAGATC
TCAGCCCTCCGGTTCCTGGGCAGAGAGAAAGGCTACAGGTTCATTTTCCTGACGACAGCAGTCACAAACA
GCGCTCGCCTTATGGAGGCCATGAGTGAGGTGAAAGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

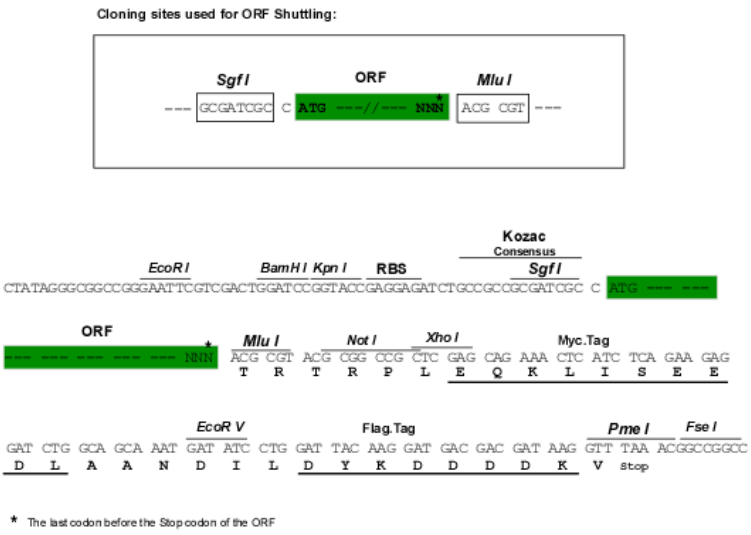
>RC238718 representing NM_001289149
Red=Cloning site Green=Tags(s)

MRYIASLVNADKLAGRTRKYKVIFSPQKFYACEMVLEEEGIYGDVSCDEWAFSLLPLDVDLLSMELPEFF
RDYFLEGDQRWINTVAQALHLLSTLYGPFPNCYGIGRCAKMAYELWRNLEEEEDGETKGRRPEIGHIFLL
DRDVDFVTALCSQVVYEGLVDDTFRIKCGSVDFGPEVTSSDKSLKVLLNAEDKVFNEIRNEHFSNVFGFL
SQKARNLQAQYDRRRGMDIKQMKNFVSQELKGLKQEHRLLSLHIGACESIMKKKTKQDFQELIKTEHALL
EGFNIRESTSYIEEHIDRQVSPIESLRLMCLLSITENGLIPKDYRSLKTQYLQSYGPEHLLTFSNLRRAG
LLTEQAPGDTLTAVESKVSKLVTDKAAGKITDAFSSLAKRSNFRAISKKLNLIPRVDGEYDLKVPRDMAY
VFGGAYVPLSCRIIEQVLERRSWQGLDEVVRLLNCSDFAFTDMTKEDKASSESLRLILVVFLGGCTFSEI
SALRFLGREKGYRFIFLTTAVTNSARLMEAMSEVKA

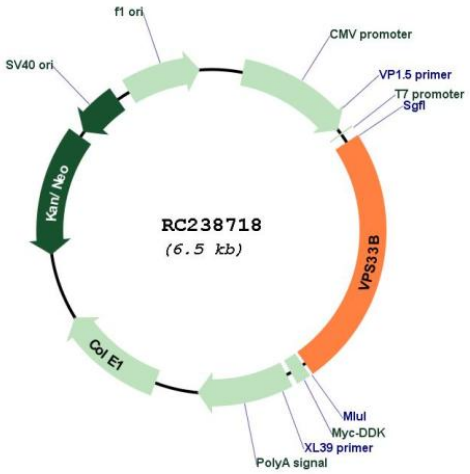
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001289149
ORF Size:	1578 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:	NM_001289149.1, NP_001276078.1
RefSeq Size:	2733 bp
RefSeq ORF:	1581 bp
Locus ID:	26276
UniProt ID:	Q9H267
Cytogenetics:	15q26.1
MW:	60.5 kDa
Gene Summary:	Vesicle mediated protein sorting plays an important role in segregation of intracellular molecules into distinct organelles. Genetic studies in yeast have identified more than 40 vacuolar protein sorting (VPS) genes involved in vesicle transport to vacuoles. This gene is a member of the Sec-1 domain family, and encodes the human ortholog of rat Vps33b which is homologous to the yeast class C Vps33 protein. The mammalian class C vacuolar protein sorting proteins are predominantly associated with late endosomes/lysosomes, and like their yeast counterparts, may mediate vesicle trafficking steps in the endosome/lysosome pathway. Mutations in this gene are associated with arthrogryposis-renal dysfunction-cholestasis syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]