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Product datasheet for MR211333

Vps54 (BC025012) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vps54 (BC025012) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Vps54
Synonyms:	Vps54l, Hcc8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR211333 representing BC025012
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTTCAAGCCACAGTTCTTCTCCAGTGCCTCAAGGAAGCAGCAGTGATGTTTTCTTTAAAAAAGAGG
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CACTCTACCTCCCACAGATCAGCAAGGAGAATTTTATAGCATATCAGCAGGAGATCTCTCAGAGAGAGAA
GATTCATGAGAGATGCAAGAATATTTGTCCTCCTAAAGATACCTTTGACAGGACTCTTTTACATATTCAT
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR211333 representing BC025012
Red=Cloning site Green=Tags(s)

MASSHSSSPVPQGSSSDVFFKKEVDPTKHIRPVQSLPDVCPKEPTVTDQHRWTVYHSKVNLPAALNDPTL
AKRESDFFTKTWGLDFVDTEVIPSLYLPQISKENFIAYQQEISQREKIHERCKNICPPKDTFDRTLLHIH
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SLDTDVAYLTHEGWFISDAFSEGEPASAAVDTTSQRNTSPHSEPCSSDSVSEPECTTDSSSSKEQTSACA
PPGGIEIIVSEDMRLTDLELGKLASNIQELLCNASDVCHDRAVKFLMSRAKDGFLEKLNSTEFIALSRLM
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HIAEISAKLVAIMDSLFDKLLSKYEVKAPVPSPCFRNICKQMTKMHEAIFDLLPEEQTQMLFLRINASYK
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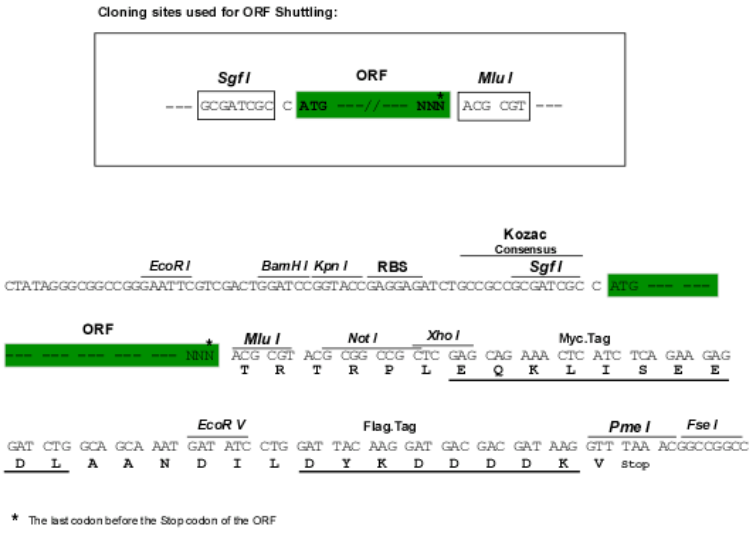
Restriction Sites: SgfI-MluI

Cloning Scheme:

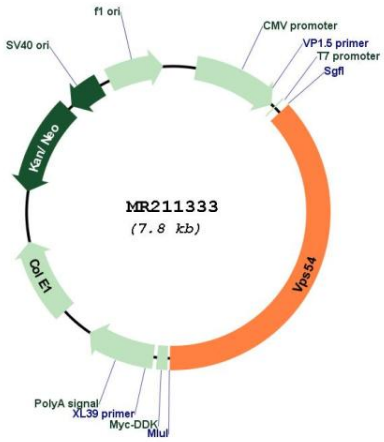


ACCN: BC025012

ORF Size: 2895 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:	BC025012.2
RefSeq Size:	3405 bp
RefSeq ORF:	2897 bp
Locus ID:	245944
Cytogenetics:	11 13.89 cM
MW:	124.9 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. Within the GARP complex, required to tether the complex to the TGN. Not involved in endocytic recycling.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211333