

Product datasheet for RC221086

VPS50 (NM_024553) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VPS50 (NM_024553) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	VPS50
Synonyms:	CCDC132; VPS54L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC221086 representing NM_024553 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGCAAAAAATCAAACTCTCATGACCCGACAGGGTCTGAAAAGCCCTCAAGAAAGCCTCAGTGATCTTG
 GTGCCATAGAGAGTCTCCGGTCCCTGGAAGGAAGAATTCAGGGAACCTCGAGAACAGCCAAGTGACCC
 TCAAGCTGAACAAGAGCTTATTAATAGTATTGAACAAGTATATTTTCTGTGGATTCATTTGATATTGTT
 AAATATGAGCTGGAGAAGCTTCCACCTGTTCTCAATTTGCAAGAATTAGAGGCGTATAGAGACAAATTGA
 AACACAGCAAGCTGCAGTATCTAAAAAGTGGCAGATTTAATCCTTGAAAAACAGCCTGCTTATGTAAA
 GGAACTTGAAAGAGTTACCTCATTGCAGACAGGTCTTCAATTAGCTGCTGTTATCTGTACAAATGGGAGA
 AGACACTTGAATATTGCAAAGGAAGTTTTACTCAAGTAGTTTAGGCCTTCTTGCAAAATCAAAGGAAAC
 GTCAGTTGCTGATTGGACTTCTGAAATCTCGAGAACTATAAAAAATTGCAAAGAACAGATGTACGGTT
 AAGTGAAATGCTGGAGGAGGAAGATTATCCAGGAGCTATTCAGTTGTGCCTTGAATGTCAAAAAGCTGCC
 AGCACTTTTAAACATTACAGTTGTATAAGTGAAGTGAATTCAGGCTGCAAGATACTTTGGAACAGATTG
 AGGAACAGCTGGACGTAGCTCTTCCAAATCTGCAAGAATTTTGACATTAACCATTATACCAAGGTTCA
 ACAAGCTTATCGACTTCTTGAAAAACACAGACAGCAATGGATCAACTTCATATGCACTTCAACCAAGCC
 ATTCACAACACCGTGTTCAGTTGTTCTTGTTATGTGGAAGTATGTGCAGGAAACACAGACACAAAA
 TCCAAAAGCTGCAATATAAGGATCTCTGACAGTATGTAGTGACTTAATTACTATTATATCTCTCCT
 T

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC221086 representing NM_024553
 Red=Cloning site Green=Tags(s)

MQKIKSLMTRQGLKSPQESLSDLGAIESLRVPGKEEFRELREQSPQAEQELINSIEQVYFSVDSFDIV
 KYELEKLPPVLNLQELEAYRDKLKQQAAVSKKVADLILEKPAYVKELERVTSLSLQGLAAVICTNGR
 RHLNIAKEGFTQASLGLLANQRKRQLLIGLLKSLRTIKTLQRTDVRLEEMLEEDYPGAIQLCLECQKAA
 STFKHYSCISELSKSLQDTLEQIEEQLDVALSKICKNFDINHYTKVQQAYRLLGKTQTAMDQLMHMFTQA
 IHNTVFQVVLGYVELCAGNTDTKFQKLQYKDLCTVCSDLITIHISLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024553

ORF Size: 981 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: [NM_024553.2](#), [NP_078829.1](#)

RefSeq Size: 1216 bp

RefSeq ORF: 984 bp

Locus ID: 55610

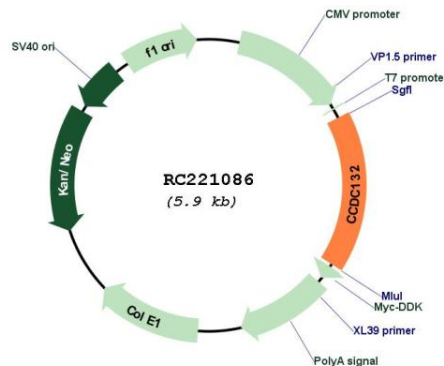
UniProt ID: [Q96IG6](#)

Cytogenetics: 7q21.2-q21.3

MW: 37.3 kDa

Gene Summary: 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. Within the EARP complex, required to tether the complex to recycling endosomes. Not involved in retrograde transport from early and late endosomes to the trans-Golgi network (TGN).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC221086