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Product datasheet for RC226200

VPS53 (NM_001128159) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VPS53 (NM_001128159) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	VPS53
Synonyms:	HCCS1; hVps53L; PCH2E; pp13624
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC226200 representing NM_001128159
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
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ATGATGGAGGAGGAGGAACTGGAGTTCGTGGAGGAGCTGGAAGCCGTGCTGCAGCTCACGCCCGAGGTGC
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CTGGCAACCTGCCCAAAACCACAACCAGCAGTGGAGGACTGACTATCAGCAGCCTCCTCAAGGAAAAGGA
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Protein Sequence:

>RC226200 representing NM_001128159
Red=Cloning site Green=Tags(s)

MMEEEELEFVEELEAVLQLTPEVQLAIEQVFPSQDPLDRADFNAVEYINTLFPTEQSLANIDEVVNKIRL
KIRRLDDNIRTVVRGQTNVGQDGRQALEEAQKAIQQLFGKIKDIKDKAEKSEQMVKEITRDIKQLDHAKR
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LGQQILADFEEAFPSQGTKRPGGPSNVLRDACLVANILDPRIKQEIIKKFIKQHLSEYLVLFQENQDVAW
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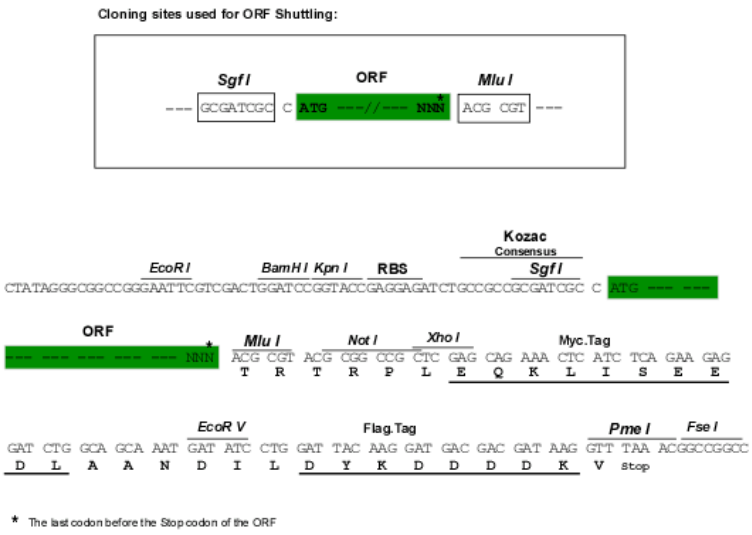
VGDQSPYVTSVILHIKQNVPIIRDNLASTRKYFTQFCVKFANSFIPKFITHLFKCKPISMVGAEQLLLDT
HSLKMVLLDLPSISSQVVRKAPASYTKIVVKGMTRAEMILKVVMAPHEPLVVFVDNYIKLLTDCNTETFQ
KILDMKGLKRSEQSSMLELLRQRLPAPPSGAESSGSLSLTAPTPEQESSRIRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8034_d05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001128159

ORF Size: 2469 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 ORF: 2499 bp

Locus ID: 55275

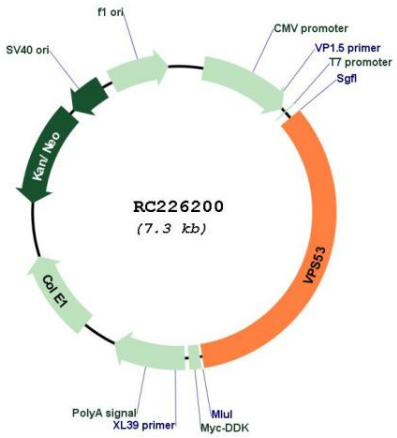
UniProt ID: Q5VIR6

Cytogenetics: 17p13.3

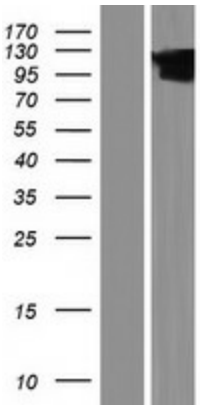
MW: 94.2 kDa

Gene Summary: This gene encodes a protein with sequence similarity to the yeast Vps53p protein. Vps53p is involved in retrograde vesicle trafficking in late Golgi. [provided by RefSeq, Jul 2008]

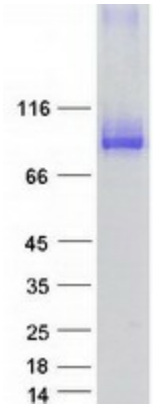
Product images:



Circular map for RC226200



Western blot validation of overexpression lysate (Cat# [LY426901]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC226200 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified VPS53 protein (Cat# [TP326200]). The protein was produced from HEK293T cells transfected with VPS53 cDNA clone (Cat# RC226200) using MegaTran 2.0 (Cat# [TT210002]).