

Product datasheet for RC219188

VPS13B (NM_181661) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VPS13B (NM_181661) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	VPS13B
Synonyms:	CHS1; COH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC219188 representing NM_181661 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCTGGAGTCATATGTAACCTCAATTTTAATGAGCTATGTGAATCGCTACATCAAGAACTTAAAGCCGT
 CGGATCTACAGCTTTCCTATGGGGTGGAGACGTGGTACTCAGCAAGCTCGAGTTAAAGTTGGATGTGCT
 GGAACAGGAAGTAAATACCATTCACTTTTTAAGTGGACATATTCATGAATTGAGGATTCATGTACCA
 TGGACAAAAGTGGGTTGAGAACAGTGGTAATTACCATCAATACTATGGAATGCATTTTGAACTTAAGG
 ATGGGATACAGGATGACCATGAAAGCTGTGGTTCTAATTCTACCAACCGTAGTACTGCTGAGAGCACAAA
 ATCATCAATCAAACCGCGGAGAAATGCAGCAGGCTGCTCCTACAGATCCTGACTTACCACAGGTTATGTG
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 TTTAGTGGAAAGTTTGAACTTTCTATCACAGATCAACAACCTGCCTATGTTTATTCGTATAATGCAACTT
 GGAATTGCTCTTACTATGGAGAAATAGGCAATTTTAAAGAAGGCGAAATAGAGGACCTTACTTGTGATA
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 GCATAAAGGTCAAGAGTTATATTCACAGCAAGATGAGGAGCAGCCACAGGGATGGGTGTCATGGGCTGG
 TCCTTTGTGCCTGCAATTGTGAGTTATGACGATGGCGAGGAAGACTTTGTTGGGAACGATCCTGCATCAA
 CCATGCATCAACAAAAGCACAGACTTTGAAGGATCCTATTGTTTCTATAGGATTTTATTGCACAAAGGC
 AACGGTGACTTTCAAAGTAGGTCTTTTCTTGTCTGTTTATCTCTATCAACTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC219188 representing NM_181661
 Red=Cloning site Green=Tags(s)

MLESYVTPILMSYVNRVYIKNLKPSDLQLSLWGGDVVLSKLELKDVLQELKLPFTFLSGHIHELRIHVP
 WTKLGSEPVVITINTMECILKLDGIQDDHESGNSNSTNRSTAESTKSSIKPRMQQAAPDPLPPGYV
 QSLIRRVVNNVINNLILKYVEDDIVLSVNITSAECYTVGELWDRAFMDISATDLVLRKVINFSDCTV
 CLDKRNASGKIEFYQDPLLYKCSFRTRLHFTYENLNSKMPSVIKIHTLVESLKLSDTDQQLPMFIRIMQL
 GIALYYGEIGNFKEGIEDLTCHNKDMLGNITGSEDETRIDMQYPAQHKGQELYSQQDEEQPGWVSWAW
 SFVPAIVSYDDGEEDFVGNPDASTMHQKAQTLKDPIVSGIFYCTKATVTFKVGLFSCCLYLYQL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1365_g08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_181661

ORF Size: 1245 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_181661.3](#)

RefSeq Size: 1634 bp

RefSeq ORF: 1248 bp

Locus ID: 157680

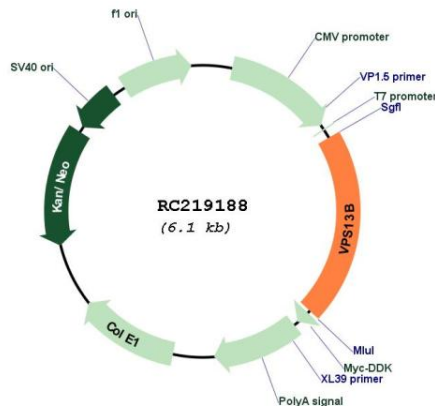
UniProt ID: [Q7Z7G8](#)

Cytogenetics: 8q22.2

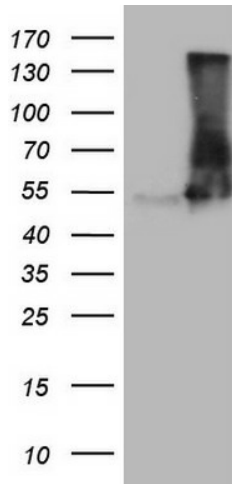
MW: 47 kDa

Gene Summary: This gene encodes a potential transmembrane protein that may function in vesicle-mediated transport and sorting of proteins within the cell. This protein may play a role in the development and the function of the eye, hematological system, and central nervous system. Mutations in this gene have been associated with Cohen syndrome. Multiple splice variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]

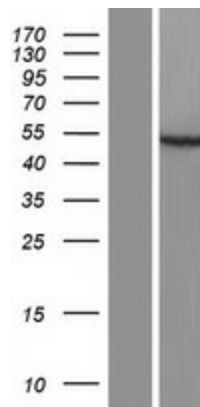
Product images:



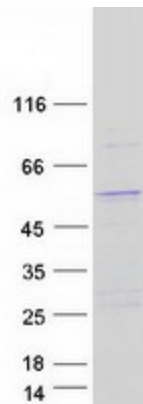
Circular map for RC219188



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY VPS13B (Cat# RC219188, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-VPS13B (Cat# [TA807803])(1:2000). Positive lysates [LY405555] (100ug) and [LC405555] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY405555]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219188 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified VPS13B protein (Cat# [TP319188]). The protein was produced from HEK293T cells transfected with VPS13B cDNA clone (Cat# RC219188) using MegaTran 2.0 (Cat# [TT210002]).