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Product datasheet for RG219188

VPS13B (NM_181661) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VPS13B (NM_181661) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	VPS13B
Synonyms:	CHS1; COH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG219188 representing NM_181661
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGGAGTCATATGTAACTCCAATTTTAATGAGCTATGTGAATCGCTACATCAAGAACTTAAAGCCGT
CGGATCTACAGCTTTCACTATGGGGTGGAGACGTGGTACTCAGCAAGCTCGAGTTAAAGTTGGATGTGCT
GGAACAGGAACTGAAATTACCATTCACTTTTTTAAGTGGACATATTCATGAATTGAGGATTCATGTACCA
TGGACAAAACTGGGTTCAGAACCAGTGGTAATTACCATCAATACTATGGAATGCATTTTGAAACTTAAGG
ATGGGATACAGGATGACCATGAAAGCTGTGGTTCTAATTCTACCAACCGTAGTACTGCTGAGAGCACAAA
ATCATCAATCAAACCGCGGAGAATGCAGCAGGCTGCTCCTACAGATCCTGACTTACCACCAGGTTATGTG
CAGAGTCTGATTAGACGAGTTGTAAATAATGTAAACATTGTGATAAATAATCTCATACTAAAATATGTTG
AAGATGATATCGTCCTTTCCGTCAATATCACTTCTGCAGAATGTTATACAGTAGGTGAATTATGGGATCG
TGCATTCATGGATATTTCTGCAACTGATTTGGTGCTGAGAAAGGTTATCAATTTTTCTGACTGTACAGTT
TGTCTTGATAAACGGAATGCCAGTGGTAAAATAGAATTTTACCAGGATCCTTTATTATACAAATGTTCCT
TCAGAACTCGTCTTCATTTTACATATGAAAACCTAAATTCCAAGATGCCATCTGTTATTAAAATTCATAC
TTTAGTGGAAAGTTTGAAACTTTCTATCACAGATCAACAACTGCCTATGTTTATTCGTATAATGCAACTT
GGAATTGCTCTTTACTATGGAGAAATAGGCAATTTTAAAGAAGGCGAAATAGAGGACCTTACTTGTCATA
ATAAAGATATGCTAGGAAACATTACAGGTTCTGAAGATGAAACAAGAATAGATATGCAATATCCTGCTCA
GCATAAAGGTCAAGAGTTATATTCACAGCAAGATGAGGAGCAGCCACAGGGATGGGTGTCATGGGCCTGG
TCCTTTGTGCCTGCAATTGTGAGTTATGACGATGGCGAGGAAGACTTTGTTGGGAACGATCCTGCATCAA
CCATGCATCAACAAAAAGCACAGACTTTGAAGGATCCTATTGTTTCTATAGGATTTTATTGCACAAAGGC
AACGGTGACTTTCAAAGTAGGTCTTTTCTCTTGCTGTTTATATCTCTATCAACTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

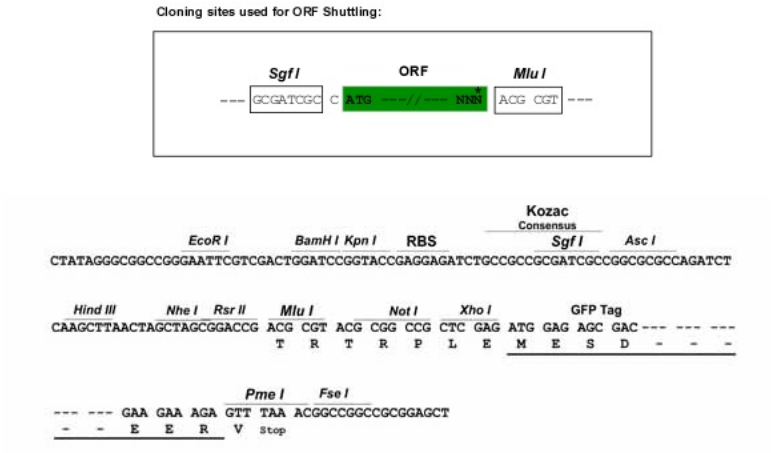
>RG219188 representing NM_181661
Red=Cloning site Green=Tags(s)

MLESYVTPILMSYVNRYIKNLKPSDLQLSLWGGDVVLSKLELKLDVLEQELKLPFTFLSGHIHELRIHVP
WTKLGSEPVVITINTMECILKLKDGIQDDHESCGSNSTNRSTAESTKSSIKPRRMQQAAPTDPDLPPGYV
QSLIRRVVNNVNIVINNLILKYVEDDIVLSVNITSAECYTVGELWDRAFMDISATDLVLRKVINFSDCTV
CLDKRNASGKIEFYQDPLLYKCSFRTRLHFTYENLNSKMPSVIKIHTLVESLKLSITDQQLPMFIRIMQL
GIALYYGEIGNFKEGEIEDLTCHNKDMLGNITGSEDETRIDMQYPAQHKGQELYSQQDEEQPQGWVSWAW
SFVPAIVSYDDGEEDFVGNDPASTMHQQKAQTLKDPIVSIGFYCTKATVTFKVGLFSCCLYLYQL

TRTRPLE - GFP Tag - V

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.

RefSeq: NM_181661.3

RefSeq Size: 1634 bp

RefSeq ORF: 1248 bp

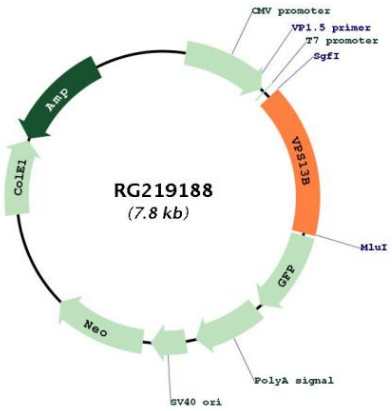
Locus ID: 157680

UniProt ID: Q7Z7G8

Cytogenetics: 8q22.2

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 RG219188