

Product datasheet for **RG224126**

VPS8 (NM_001009921) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	VPS8
Synonyms:	KIAA0804
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG224126 representing NM_001009921
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAATGAACCAGACCATGAAATGTGGAACAGAGCCTCTGTGCCAAGACGAGCGAAGAAGAGCTGA
ATAAGTCTTTCAATCTAGAAGCTTCACTTTCAAAATTCTCTTACATAGATATGGACAAGGAAGTGGAGTT
CAAAATGATCTGATTGATGACAAGGAGTTTGATATTCCTCAAGTTGATACTCTCCAACTGGAAAGC
ATACTAAATGAGACTGATGATGAAGATGAGTCTTTATTCTTGAGGATCCTACATTGTTAAACATTGATA
CTATTGATTCTCACTCCTATGATACTTCATCTGTGGCAAGCTCAGATAGTGGTGACAGGACCAACTTAA
AAGGAAGAAGAAATTACCTGATTCTTTTCACTTCATGGATCAGTTATGCGCCATTCACCTTTGAAGGGA
ATTTCTGCCCAGATAGTGTCTGCAGCTGACAAAGTAGATGCTGGCTTGCCTACAGCAATTGCAGTATCCA
GTCTGATAGCAGTGGGTACATCTCATGGATTGGCTTTAATATTTGAAAAGATCAGAATCAAGCTTTGCG
ACTCTGTCTGGGTAGCACTAGTGTGGAGGTCAGTATGGCGCTATCTCTGCCCTCAGTATCAACAATGAT
TGCTCAAGACTTCTTTGTGGCTTTGCTAAAGGACAGATCACCATGTGGGATTTGGCCAGTGGAAAACCTC
TAAGATCAATAACAGATGCTCATCTCCAGGAACAGCAATATTGCATATCAAGTTTACAGATGATCCAAC
TCTTGCAATTTGCAACGACAGCGGAGGCTCTGTTTTGAATTGACATTTAAGAGAGTGATGGGAGTGAGA
ACCTGTGAATCTAGATGTCTGTTCACTGGTTCCAAGGGTGAAGTCTGCTGTATTGAGCCTCTGCATTCTA
AGCCTGAGTTGAAAGATCATCCATCACACAGTTTTCATTATTGGCCATGGCATCCTTGACAAAAATACT
GGTCATTGGATTGAAACCATCCTTGAAAGTATGGATGACTTTTCCCTATGGCCGGATGGATCCTTCCAGT
GTGCCACTGCTGGCCTGGCACTTTGTAGCAGTACAAAATTACGTGAATCCCATGCTTGCCTTCTGCAGAG
GAGATGTTGTTCAATTTCTATTGGTAAAGAGAGATGAATCTGGAGCAATACATGTTACTAAGCAAAAGCA
TCTTCACCTATACTATGACCTCATCACTTTACCTGGATAAATTCACGCACAGTTGTGCTCTTAGACAGC
GTAGAGAAGTTGCATGTGATTGATCGGCAACACAAGAGGAATTGGAGACAGTGGAGATCTCAGAAGTTC
AGCTGGTCTACAATAGCAGCCATTTCAAATCACTAGCCACTGGAGGAAATGTTAGCCAGGCACTGGCTTT
GGTTGGAGAGAAGGCTTTTATCAATCCATCAGTAGCTATGGTGGTCAGATCTTTTATTTGGGGACAAAA
TCTGTTTATGTGATGATGCTGAGGAGCTGGAGAGAGAGTGGATCATCTCCTGAAACAAGATTGTCTTA



CAGAAGCGTTGGCTCTTGCCTGGTCTTTCCATGAAGGAAAAGCAAAAGCAGTAGTGGGATTATCAGGGGA
TGCCAGTAAGCGAAAGGCTATTGTTGCAGACCGGATGGTAGAAATCCTATTCCATTATGCAGATCGAGCT
CTGAAAAAGTGCCAGACCAAGGAAAAATCCAAGTGATGGAGCAGCATTTTCAGGATATGGTGCCTGTCA
TAGTTGATTACTGCCTTCTGCTGCAGCGAAAGGATCTTTTATTTAGTCAGATGTATGATAAAATTAAGTGA
GAATTCAGTGGCCAAAGGAGTATTTTGGAGTGCCTTGAGCCATATATTTTAAGTGATAAAATGGTGGGA
ATCACACCCCAAGTAATGAAAGACTTGATTGTTTCATTCCAGATAAAAAATTAATGGAAAAATGTGAAG
CGCTCATTGTACATATGGATATCACCAGCCTAGATATTCAGCAGGTAGTTCTCATGTGTTGGGAAAAATCG
TTTATATGATGCTATGATCTATGTCTACAACAGAGGCATGAATGAATTTATTAGTCCAATGGAGAAACTT
TTCAGAGTCATTGCTCCTCCTCTGAATGCAGGAAAAACACTAACAGATGAACAAGTTGTTATGGGCAATA
AGCTCCTTGTATATATTAGCTGTTGTCTAGCAGGTCGTGCCTATCCCTTGGTGACATCCCTGAAGATCT
GGTTCCTTGGTTAAAAACAGGTTTTTGAATTTCTAATTCGCCTGCATTACAGCAGAGGCTTCTCCTGAG
GAAGAAATCTATCCTTACATTTCGACTTTTGTACATTTTGACACAAGAGAATTTCTAAATGTATTGGCAC
TGACTTTTGAAGATTTTAAAAATGACAAGCAAGCTGTGGAATATCAACAGCGAATTGTGGATATTTTGT
GAAAGTTATGGTGAGAAATTCAGACTTTACCCCTCACAAGTAGGATGTCTTTACCTTCTTGTCTCGG
CAGCTTGCAAAGCCTGACAACACCTTGTGTTGTAACAGAACTTTTGTATCAGGTCCTTGAATTCCTTT
GTAGTCCTGACGATGACTCCCGACTCTGAAAGACAGCAGGTCCTTTTGAATTTGCTGCAGGCTGGAGG
CATAGTTCAATTTGAAGAGAGTCGACTCATCCGGATGGCAGAAAAAGCTGAGTTCTATCAAAATTTGTGAA
TTTATGTATGAAAGAGAACACCAATATGACAAAATATTGATTGCTACTTACGTGACCTCTGCGAGAGG
AAGAAGTCTTTAATTACATTCAATATCTTATCCATTCCCGGACACAGTGCAGAGGAGAAGCAGTCTGT
ATGGCAGAAAGCAATGGATCATATTGAGGAACCTGTGTCCCTGAAGCCTTGTAAGCTGCGGAGCTGGTT
GCCACCCACTTTTCTGGACATATTGAAACGGTCATTAATACTTCAGAACAGGTTTTGCTTTTCAAAT
TTTTGAGGAGTCTTCTTGACCAAGGGAAGGTATTGATGTAATCAAGAATTACTGCAATATCTCCTTG
TATCACAGAGCAGTTCATTGAGCTGTTGTGTGCTGAGTTCAACCAACCAAGTTATAGAGACTCTGCAAGTC
CTTGAGTGCTACCGTCTGGAAGAACTATTGAGATTCTCAGAAATATCAACTTCATGAAAGTCAACGCTT
ATCTATTGGAAGAAAGGAGATATTCATGGTGCCTTCTAATAATGTTAGAGAGACTACAAAGCAAAT
TCAAGAGGTAAACATCAAGGTGAAAAACCAAGAGGATCCCTCATTGAAGGATGTTGAAGATACTATG
GTGGAGACCATGCTCTTGGCAGAGAAATTCATAATTTGAACAGCAGCAACGTGAGGCACTTTGGT
TTCCGTTATTGGAGGCAATGATGGCCCTCAGAAGCTGTCCAGTTAGCCATTCTCATCTACACTCTGA
AGCTCTGAAGTCTTTGACCATGCAAGTTTTAAATAGCATGGCAGCATTTATTGCCCTTCCATCAATCTTG
CAAAGAATCTTACAGGATCCAGTTTATGGAAGGAAAACTTGAGAGAAATCCAGGGACTTATCTTGGGAA
TGTTAGATACCTTTAATATGAACAAACCTGCTGGAACAACAACAGCCTTCTAAACCAAGATCTCCA
TTGGTCATTGTGAACCTGAGAGCTTCGGTCACCAAGAGGACTGAATCCCAACAAGATTACTGCTCTATA
TGTTTGCAGCAGTACAAGAGACGCCAAGAAATGGCTGATGAAATAATTGTCTTTAGCTGTGGCCATTGT
ATCACTCATTCTGCCTACAAAACAAGAAATGCACTGTGGAATTTGAGGGCCAAACAAGATGGACATGCTA
CAATGTCAGTTCAAGTAACAAAGTAGGAAAACTCAGTGAAAATTCATCTGAAATTTAAAAGGGAAGGATA
ACCCCATCACAGGTAAAAATGTCTCCATCGTATCATCAGTCCAAAGGGGATCCCACTGCTAAAAAGGGAA
CCTCAGAACCTGTTCTGGATCCACAGCAATCCAAGCATTGATCAGCTTTGCCGTCTTACCGAGGAAG
CTCCAGGCTGGCTCTCCTCACGGAATCTCCAGAATCGCAGCAGCAGAGCTATAGGCCATTAGTGGC
TCGAGAGTCTCTGCTTTCAACAGCATCTCCAGAATGAGAACTCCAGCTGCAGCTCATTCTCCAC
CTGTGACTGAGGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG224126 representing NM_001009921

Red=Cloning site Green=Tags(s)

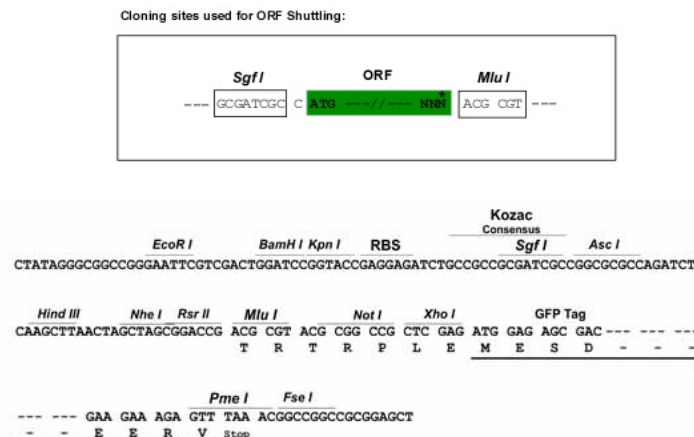
MENEPDHENVEQSLCAKTSEEELNKSFNLEASLSKFSYIDMDKELEFKNDLIDDKEFDIPQVDTPTPTLES
ILNETDDEDESFILEDPTLLNIDTIDSHSYDTSSVASSDSGDRTNLKRKKLPDSFSLHGSVMRHSLKLG
ISAQIVSAADKVDAGLPTAIAVSSLIAGVTSGLALIFGKDQNALRLCLGSTSVGGQYGAIASALSINND
CSRLLCGFAKGQITMMDLASGKLLRSITDAHPPGTAILHIKFDDPTLAICNDSGGSVFELTFKRVMGVR
TCESRCLFSGSKGEVCCIEPLHSPKELKHPITQFSLAMASLTKILVIGLKPSLKVWMTFPYGRMDPSS
VPLLAWHFVAVQNYVNPMLAFCRGDVVHFLLVKRDESGAIHVTKQKHLHYDILNFTWINSRTVVLLDS
VEKLHVIDRQTQEELETVEISEVQLVYNSSHFKSLATGGNVSQALALVGEKACYQSISSYGGQIFYLGTK
SVYYMMLRSWRERVDHLLKQDCLTEALALAWSFHEGKAKAVVGLSGDASKRKAIVADRMVEILFHYADRA
LKKCPDQGGKIQVMEQHFQDMVPVIVDYCLLLQRKDLLFSQMYDKLSENSVAKGVFLECLEPYILSDKLVG
ITPQVMKDLIVHFQDKKLMENVEALIVHMDITSLDIQQVVLMCWENRLYDAMIYVYNRGMNEFISPMEL
FRVIAPPLNAGKTLTDEQVVMGNKLLVYISCCLAGRAYPLGDIPEDLVPLVKNQVFEFLIRLHSAEASPE
EEIYPYIRTLLHFDTRFLNLALTFEDFNKDKQAVEYQQRIVDILLKVMVENSDFTPSQVGCLFTFLAR
QLAKPDNTLFFVNRTLFDQVLEFLCSPDDSRHSERQQVLELLQAGGIVQFEESRLIRMAEKAIFYQICE
FMYEREHQYDKIIDCYLRDPLREEEFVNYIHNILSIPGHSAAEKQSVWQKAMDHIEELVSLKPKCAAELV
ATHFSGHITVIKKLQNVLLFKFLRSLDPREGIHVNQELLQISPCITEQFIELLCQFNPTQVIETLQV
LECYRLEETIQITQKYQLHEVTAYLLEKKGDIHGAFILMLERLQSKLQEVTHQGENTKEDPSLKDVEDTM
VETIALCQRNSHNLNQOREALWFPLLEAMMAPQKLSSSAIPHLHSEALKSLTMQVLNSMAAFIALPSIL
QRILQDPVYKGKLGELIQLGLGMLDTFNYEQTLLTTTSLNQLHWSLCNLRASVTRGLNPKQDYCSI
CLQQYKRRQEMADEIIVFSCGHLYHSFCLQNKECTVEFEGQTRWTCYKCSSNKVKGKSENSSEIKKGRI
TPSQVKMSPSYHQSGDPTAKKGTSEPVLDPQQIQAFDQLCRLYRGSSRLALLTELSQNRSSSEYRPFSG
SQSAPAFNSIFQENFQLQLIPPPVTE

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

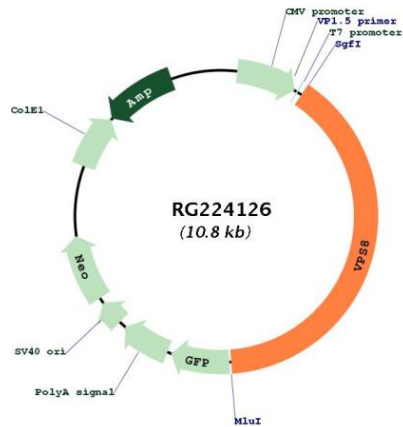
NM_001009921

ORF Size:

4284 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_001009921.2
RefSeq Size:	5009 bp
RefSeq ORF:	4287 bp
Locus ID:	23355
UniProt ID:	Q8N3P4
Cytogenetics:	3q27.2
Gene Summary:	Plays a role in vesicle-mediated protein trafficking of the endocytic membrane transport pathway. Believed to act as a component of the putative CORVET endosomal tethering complexes which is proposed to be involved in the Rab5-to-Rab7 endosome conversion probably implicating MONIA/B, and via binding SNAREs and SNARE complexes to mediate tethering and docking events during SNARE-mediated membrane fusion. The CORVET complex is proposed to function as a Rab5 effector to mediate early endosome fusion probably in specific endosome subpopulations (PubMed:25266290). Functions predominantly in APPL1-containing endosomes (PubMed:25266290).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG224126