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Product datasheet for RR201735

Vipas39 (NM_001101004) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vipas39 (NM_001101004) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Vipas39
Synonyms:	hSPE-39; Spe39; Vipar
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RR201735 representing NM_001101004
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAACCGGACAAAAGGTGATGAGGAGGAATATTGGAACAGCTCCAAGTTCAAGGCGTTCACTTTTGACG
ATGAAGATGATGAGCTCTCACAGTTAAAGGAATCCAAACGGGCAGTGAATAGCCTTCGAGACTTCGTGGA
TGACGACGATGACGATGACCTGGAGCGAGTCAGCTGGACTGGAGAACCTGTGGGAAGTATCTCATGGTCC
ATCAAAGAGACTGCTGGGAGTAGCGGGTCAACCTCTGAGGGACGTGAACAGATGAAGGGCCGGAACAGCT
TCTACACACAACTACCCAAACCTCCTTCCACCTACTCCCTGAGCAGCTTCTTTAGAGGCAGAACTAGACC
TGGGAGTTTCCAGTCCCTTTCTGATGCTCTGTCAGACACACCTGCCAAAACTTATTCTCCAGAGCTGGGG
AGGCCTAAGGGAGAGTACAGGGATTACAGCAATGACTGGAGCCTCAGTGATACAGTGCGACGTCTCCGCC
AGGGCAAGGTTCTGATCTTCCTGAAGAGGACCCTGAGCAAAGAGATCCTTTTCCGAGAGCTGGAGGTACG
CCAGGTCGCACTGAGACATCTCATCCACTTCCTTAAAGAAATAGGGGACCAAAAGCTGCTTTTAGATCTC
TTCAGGTTCCTAGATAGAACAGAAGAGCTGGCGCTATCCCATTATCGAGAGCATTTGAACATTCAGGACC
CTGAAAAACGAAAAGAATTTCTTAAGACGTGCATTGGTTTGCCCTTTTCAGCGGAAGACTCTGCACACGT
GCAAGACCAGTACACACTGCTGGAGCGCCAGATCATCATCGAGGCCAATGACCGACACCTGGAGTCTTCA
GGGCAGACTGAGATCTTCCGGAAGCACCCCCGAAAAGCTTCCATCCTCAACATGCCACTAGTGACGACAC
TCTTCTACGCCTGCTTCTATCACTACACGGAGTCCGAGGGGACCTTCAGCAGTCCAGTCAACCTGAAGAA
AACATTCAAGATCCCAGACAGACAGTATGTGCTGACAGCCTTGGCTGCGCGGGCCAAGCTTAGAGCCTGG
AATGATGTCGATGCCTTGTTCACCACAAAGAACTGGTTGGGTTACACCAAGAAGAGAGCACCCATTGGCT
TCCATCGAGTTGTGGAAATTTTGCACAAGAACAGTGCCCCTGTCCAGATATTGCAGGAATATGTCAATCT
GGTGGAAGATGTGGACACAAAGTTGAACTTAGCCACTAAGTTCAAGTGCCATGATGTTGTCATTGATACT
TGCCGAGACCTGAAGGATCGTCAACAGTTGCTTGCATACAGGAGCAAAGTAGATAAAGGATCTGCTGAGG
AAGAGAAAATCGATGTCATCCTCAGCAGCTCGCAAATTCGATGGAAGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

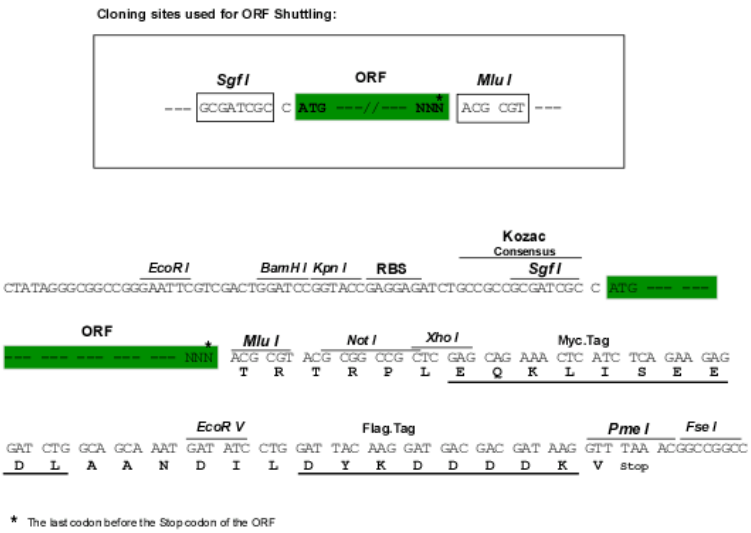
>RR201735 representing NM_001101004
Red=Cloning site Green=Tags(s)

MNRTKGDEEEYWNSSKFKAFTFDDEDDELSQLKESKRAVNSLRDFVDDDDDDLERVSWTGEPVGSISWS
IKETAGSSGSTSEGREQMKGRNSFYTQLPKPPSTYSLSSFFRGRTRPGSFQSLSDALSDTPAKTYSPELG
RPKGEYRDYSNDWSLSDTVRRLRQGKVLIFLKRTLSKEILFRELEVRQVALRHLIHFLKEIGDQKLLLDL
FRFLDRTEELALSHYREHLNIQDPEKRKEFLKTCIGLPFSAEDSAHVQDQYTLLERQIIIEANDRHLESS
GQTEIFRKHPRKASILNMPLVTTLFYACFYHYTESEGTFSSPVNLKKTFKIPDRQYVLTALAARAKLRAW
NDVDALFTTKNWLGYTKKRAPIGFHRVVEILHKNSAPVQILQEYVNLVEDVDTKLNLATKFKCHDVVIDT
CRDLKDRQQLLAYRSKVDKGSAEEEKIDVILSSSQIRWKN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001101004

ORF Size: 1380 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_001101004.1, NP_001094474.1

RefSeq Size: 2441 bp

RefSeq ORF: 1383 bp

Locus ID: 681989

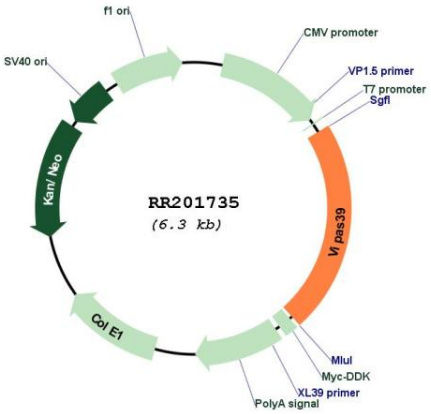
UniProt ID: Q5PQN6

Cytogenetics: 6q31

MW: 53.3 kDa

Gene Summary: Proposed to be involved in endosomal maturation implicating in part VPS33B. In epithelial cells, the VPS33B:VIPAS39 complex may play a role in the apical RAB11A-dependent recycling pathway and in the maintenance of the apical-basolateral polarity. May play a role in lysosomal trafficking, probably via association with the core HOPS complex in a discrete population of endosomes; the functions seems to be indepenedent of VPS33B. May play a role in vesicular trafficking during spermatogenesis. May be involved in direct or indirect transcriptional regulation of E-cadherin (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR201735