

Product datasheet for RR202230

Vps26a (NM_001007740) Rat Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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| Product Type: | Expression Plasmids |
|-----------------------------|---|
| Product Name: | Vps26a (NM_001007740) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Vps26a |
| Synonyms: | Vps26 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |
| ORF Nucleotide Sequence: | <pre>>RR202230 representing NM_001007740 Red=Cloning site Blue=ORF Green=Tags(s)</pre> |
| | TTTTCTAATACCACTCACTATACCCCCCCCCCCCAATTCCTCC |

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC<mark>GCGATCGCC</mark>

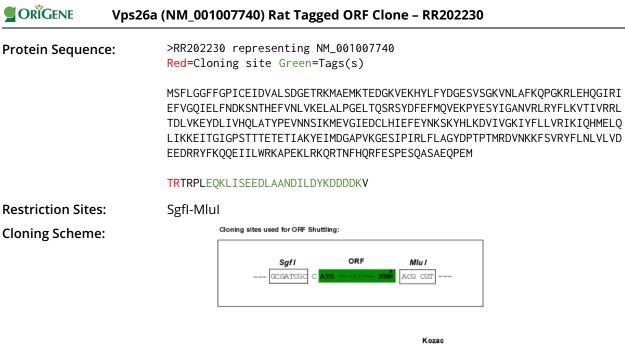
ATGAGTTTTCTTGGAGGCTTTTTTGGTCCCATCTGTGAGATCGATGTTGCCCTTAGTGATGGGGAGACCA GGAAAATGGCAGAAATGAAAACGGAAGATGGCAAAGTAGAAAAACACTATCTCTTCTATGATGGGGAATC TGTCTCAGGAAAGGTAAACCTAGCCTTTAAGCAGCCTGGAAAGAGGCTAGAGCATCAAGGAATTAGAATT GAATTTGTAGGTCAAATTGAGCTTTTCAATGACAAGAGTAATACTCATGAAGCATCAAGGAATTAGAATT GAATTGTGCCTGGAGAGCTGACTCAGAGCAGAAGCTATGACTTTGAATTCATGCAAGTTGAAAAGCC ATATGAGTCATACATCGGTGCCAATGTCCGCCTGAGGTATTTCCTTAAGGTGACCATTGTGAAAAGCC ATATGAGTCATACATCGGTGCCAATGTCCGCCTGAGGTATTTCCTTAAGGTGACCATTGTGAGAAGACTG ACAGACTTAGTGAAAGAGTACGATCTTATTGTTCACCAGCTCGCCACCTACCCAGAGGTCAACAACTCCA TTAAAATGGAGGTGGGAATTGAAGACTGTCTGCACATAGAGTTTGAGTACAATAAGTCCAAGTATCATTT AAAGGATGTAATTGTTGGAAAAATTTACTTCTTATTAGTAAGAATAAAAATACAACACATGGAGTTACAG CTGATCAAGAAAGAGATCACAGGAATTGGACCCAGCACCACAACAGGAGAAACAATCGCTAAGTATG AAATAATGGATGGGGCGCCCAGTAAAAGGAGAATCTATTCCGATAAGATTGTTCTTAGCAGGGTATGACCC AACCCCCACAATGAGAGATGTGAACAAGAAGTTTTCAGTAAGGTACTTTTTGAACCTCGTGGCTTGTTGAT GAGGAGGACAGAAGGTACTTCCAGCAGCAGGAGATTATCCTGTGGGAGAAAAGCACCTGAGAAACTGAGAA AACAGAGGACGAACTTTCCACGCGATTTGAATCCCCAGAACGAGCCTGAGAACAACCGCGAGAA G

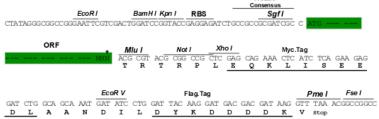
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG**GTTTAA**



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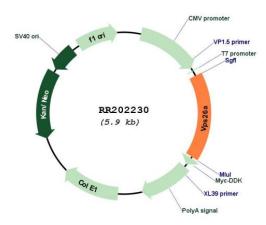
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* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: ORF Size: NM_001007740 981 bp

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| ORIGENE Vps20 | 5a (NM_001007740) Rat Tagged ORF Clone – RR202230 |
|-----------------------|--|
| 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. <u>More info</u> |
| 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 | Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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: | <u>NM 001007740.1, NP 001007741.1</u> |
| RefSeq Size: | 1292 bp |
| RefSeq ORF: | 984 bp |
| Locus ID: | 361846 |
| UniProt ID: | <u>Q6AY86</u> |
| Cytogenetics: | 20q11 |
| MW: | 38.1 kDa |

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Section 2230 (NM_001007740) Rat Tagged ORF Clone – RR202230

Acts as component of the retromer cargo-selective complex (CSC). The CSC is believed to be Gene Summary: the core functional component of retromer or respective retromer complex variants acting to prevent missorting of selected transmembrane cargo proteins into the lysosomal degradation pathway. The recruitment of the CSC to the endosomal membrane involves RAB7A and SNX3.The SNX-BAR retromer mediates retrograde transport of cargo proteins from endosomes to the trans-Golgi network (TGN) and is involved in endosome-to-plasma membrane transport for cargo protein recycling. The SNX3-retromer mediates the retrograde endosome-to-TGN transport of WLS distinct from the SNX-BAR retromer pathway. The SNX27retromer is believed to be involved in endosome-to-plasma membrane trafficking and recycling of a broad spectrum of cargo proteins. The CSC complex seems to act as recruitment hub for other proteins, such as the WASH complex and TBC1D5. Required for retrograde transport of lysosomal enzyme receptor IGF2R. Required to regulate transcytosis of the polymeric immunoglobulin receptor (plgR-plgA). Required for the endosomal localization of WASHC2 (indicative for the WASH complex). Required for the endosomal localization of TBC1D5. Mediates retromer cargo recognition of SORL1 and is involved in trafficking of SORL1 implicated in sorting and processing of APP. Involved in retromerindependent lysosomal sorting of F2R. Involved in recycling of ADRB2. Acts redundantly with VSP26B in SNX-27 mediated endocytic recycling of SLC2A1/GLUT1. Enhances the affinity of SNX27 for PDZ-binding motifs in cargo proteins (By similarity).[UniProtKB/Swiss-Prot Function]

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