

Product datasheet for **RR215960**

Vps25 (NM_001173451) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Vps25 (NM_001173451) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Vps25
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR215960 representing NM_001173451
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGATGAGTTTCGAGTGGCCGTGGCAGTACCGCTTCCGCCCTTCTTTACGTTACAGCCGAACGTGG
ACACCCCGCAGAAAGCAGCTGGCCGCTGGTGTCTCTGGTTCTGTCTTCTGCCGCTGCACAAACAGTC
CAGCATGACGGTGATGGAAGCCAGGAGAGCCCGCTCTCAACAACGTCAGCTACAGCGAAACTTCCT
GTGGAGTCGATTAGATTGATTAGAAGAACTGAGGAAGAAAGGAACTCGAGTGGTTGGATAAGAATA
AGTCTAGCTTCTGATCATGTGGCGGAGGCCAGAAGAATGGGGAACTCATTTATCAATGGGTTCCAG
GAGTGGCCAGAATAACTCTGTGTTACCCTGTATGAACTGACCAGTGGGGAAGACACAGAGGAGGAAGAG
TTCCATGGGCTGGATGAGGCGACCCTGCTGCGTCTGCAGGCCCTACAGCAGGAGCACAAGGCTGAGA
TTATCACTGTCAGCGATGGCCGAGGAGTCAAATCTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR215960 representing NM_001173451
Red=Cloning site Green=Tags(s)

MAMSFEPWPQYRFPFFFTLQPNVDTRQKQLAAWCSLVL SFCRLHKQSSMTVMEAQESPLFNNVKLQRKLP
VESIQIVLEELRKKGNLEWLDKNKSSFLIMWRRPEEWGKLIYQWVSRSGQNNVFTLYELTSGEDTEEEE
FHGLDEATLLRALQALQAEHKAEIITVSDGRGVKFF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

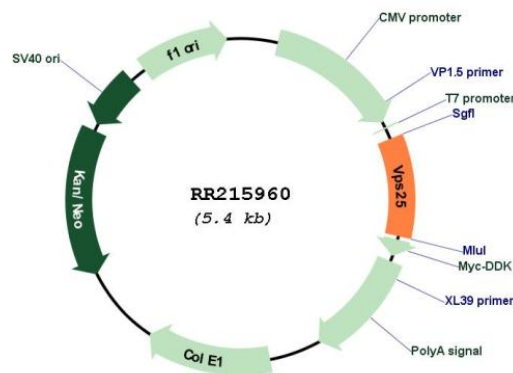


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001173451

ORF Size: 528 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:	<ol style="list-style-type: none">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:	<u>NM_001173451.1, NP_001166922.1</u>
RefSeq Size:	1090 bp
RefSeq ORF:	531 bp
Locus ID:	681059
UniProt ID:	<u>P0C0A1</u>
Cytogenetics:	10q31
MW:	20.8 kDa
Gene Summary:	Component of the ESCRT-II complex (endosomal sorting complex required for transport II), which is required for multivesicular body (MVB) formation and sorting of endosomal cargo proteins into MVBs. The MVB pathway mediates delivery of transmembrane proteins into the lumen of the lysosome for degradation. The ESCRT-II complex is probably involved in the recruitment of the ESCRT-III complex (By similarity). The ESCRT-II complex may also play a role in transcription regulation, possibly via its interaction with ELL.[UniProtKB/Swiss-Prot Function]