

Product datasheet for **RG215611**

VPS26 (VPS26A) (NM_001035260) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VPS26 (VPS26A) (NM_001035260) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	VPS26A
Synonyms:	HB58; Hbeta58; PEP8A; VPS26
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215611 representing NM_001035260 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTTTTCTTGGAGGCTTTTTGGTCCAATTTGTGAGATCGATATTGTTCTTAATGATGGGAAACCA
GGAAAATGGCAGAAATGAAAAGTGAAGATGGCAAAGTAGAAAAACTATCTCTTCTATGACGGAGAATC
CGTTTCAGGAAAGGTAACCTAGCCTTTAAGCAACCTGGAAGAGGCTAGAACACCAAGGAATTAGAATT
GAATTTGTAGTCAAATGAACTTTTCAATGACAAGAGTAATACTCATGAATTTGTAACCTAGTGAAG
AACTAGCCTTACCTGGAGAACTGACTCAGAGCAGAAGTTATGATTTTGAATTTATGCAAGTTGAAAAGCC
ATATGAATCTTACATCGGTGCCAATGTCCGCTTGAGGTATTTTCTTAAAGTGACAATAGTGAGAAGACTG
ACAGATTTGGTAAAAGAGTATGATCTTATTGTTACCAGCTTGCCACCTATCCTGATGTTAACTCTA
TTAAGATGGAAGTGGCATTGAAGATTGTCTACATATAGAATTTGAATATAATAAATCAAAGTATCATT
AAAGGATGTGATTGTTGGAAAAATTTACTTCTTATTAGTAAGAATAAAAAACAACATATGGAGTTACAG
CTGATCAAAAAGAGATCACAGGAATTGGACCCAGTACCACAACAGAAACAGAAACAATCGCCAAATATG
AAATAATGGATGGTGCACCAGTAAAAGGAGATAATTTTATGGAGAAAAGCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG215611 representing NM_001035260
 Red=Cloning site Green=Tags(s)

MSFLGGFFGPICEIDIVLNDGETRMAEMKTEDGKVEKHLYFYDGESVSGKVNLA FKQPGKRLEHQGIRI
 EFVQGIELFNDKSNTHEFVNLVKELALPGELTQSRSYDFEFMQVEKPYESYIGANVRLRYFLKVTIVRRL
 TDLVKEYDLIVHQLATYPDVNNSIKMEVGIEDCLHIEFEYNKSKYHLKDVIVGKIYFLLVRIKIQHMLQ
 LIKKEITGIGPSTTTTETETIAKYEIMDGAPVKGDNFMEKSS

TRTRPLE - GFP Tag - V

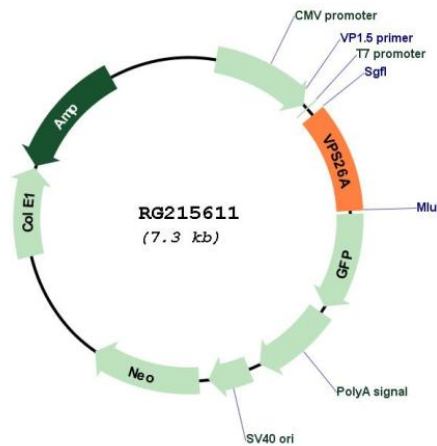
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001035260

ORF Size: 753 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:	NM_001035260.2 , NP_001030337.1
RefSeq Size:	2564 bp
RefSeq ORF:	756 bp
Locus ID:	9559
UniProt ID:	O75436
Cytogenetics:	10q22.1
Gene Summary:	This gene belongs to a group of vacuolar protein sorting (VPS) genes. The encoded protein is a component of a large multimeric complex, termed the retromer complex, involved in retrograde transport of proteins from endosomes to the trans-Golgi network. The close structural similarity between the yeast and human proteins that make up this complex suggests a similarity in function. Expression studies in yeast and mammalian cells indicate that this protein interacts directly with VPS35, which serves as the core of the retromer complex. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]