

Product datasheet for **RG211427**

VPS37D (NM_001077621) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: VPS37D (NM_001077621) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: VPS37D
Synonyms: WBSCR24
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG211427 representing NM_001077621
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTACCGGGCCCGGGCGCGGGCGGGGCGGAGCCCGGCAGCCCGGGCGCTTTGGGATCCTCAGCA
CCGGGCAGCTCCGGGACCTGCTTCAGGATGAGCCAAGCTGGACCGGATCGTGCGGCTCAGCAGGAAGTT
CCAGGGCCTGCAGCTGGAGCGTGAGGCCTGCCTGGCCTCAAACACGCGCTGGCCAAGGAGAACCTGGCC
CTGCGGCCCGCCTGGAGATGGCCGGGCTGCCCTGGCCATCAAATACCAGGAGCTTCGTGAGGTGGCCG
AGAACTGCGCGGACAAGCTGCAGCGACTGGAGGAAAGCATGCATCGCTGGAGTCCCCTGCGCGCTGGG
CTGGCTGCAGGCTGAGCTAGAAGAGGCGGAGCAGGAGGCAGAGGAGCAGATGGAGCAGCTGCTGCTCGGG
GAGCAAAGCCTGGAGGCCTTCCTGCCTGCCTCCAGCGTGGCCGCGCCCTGGCCACCTGAGGCGGACGC
AGGAGAGAAAGCTGCAGGAGCTGCTGCGGCGTCGGGAGCGTTCTGCCAGCCGGCCCGCCACCTCGGCTGC
TGATCCCCCAAATCCTTCCCGGCTGCAGCTGTCTGCCACTGGGGCCCGCCGGGGGCCACCAGCAGTG
CCCCGAGCCTGCCCGCTTGGACTCCCGCCAGTGCCCCACTGAAGGGCTCCCCGGGTGCCCGCTCG
GCCCGGCCCGCTGCTGAGCCCTCGGCCCTCGCAGCCAGAGCCCCCACCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG211427 representing NM_001077621
 Red=Cloning site Green=Tags(s)

MYRARAARAGPEPGSPGRFGILSTGQLRDLLQDEPKLDRIVRLSRKFQGLQLEREACLASNYALAKENLA
 LRPRLMGRALAIAIKYQELREVAENCADKLQRLEESMHRWSPHCALGWLQAELEEAQEAEQEQMQLLLG
 EQSLEAF LPAFQRGRALHLRRTQAEKLQELLRRRERSAQ PAPTSAADPPKSFPAAAVLP TGAARGPPAV
 PRSLPPLDSRPVPLKGS PGCP LGPAPLLSPRPSQPEPPHR

TRTRPLE - GFP Tag - V

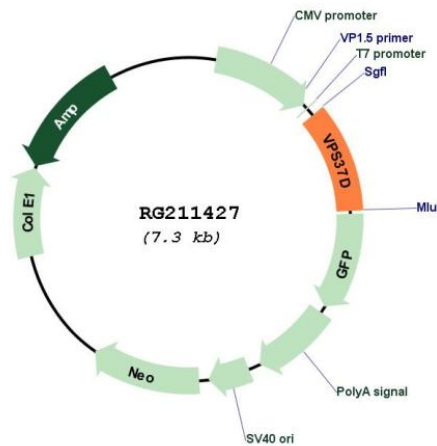
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001077621

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_001077621.2
RefSeq Size:	1609 bp
RefSeq ORF:	756 bp
Locus ID:	155382
UniProt ID:	Q86XT2
Cytogenetics:	7q11.23
Protein Pathways:	Endocytosis
Gene Summary:	Component of the ESCRT-I complex, a regulator of vesicular trafficking process. Required for the sorting of endocytic ubiquitinated cargos into multivesicular bodies. May be involved in cell growth and differentiation.[UniProtKB/Swiss-Prot Function]