

## Product datasheet for **RG210597**

### VPS35 (NM\_018206) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	VPS35 (NM_018206) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	VPS35
Synonyms:	MEM3; PARK17
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG210597 representing NM\_018206  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCCTACAACACAGCAGTCCCCTCAGGATGAGCAGGAAAAGCTCTTGGATGAAGCCATACAGGCTGTGA  
 AGGTCCAGTCATTCCAAATGAAGAGATGCCTGGACAAAAACAAGCTTATGGATGCCTAAAAACATGCCTC  
 TAATATGCTTGGTGAACCCGGACTTCTATGTTATCACCAAAGAGTTACTATGAACCTTTATATGGCCATT  
 TCTGATGAACTGCACTACTTGGAGGTCTACCTGACAGATGAGTTTGCTAAAGGAAGGAAAGTGGCAGATC  
 TCTACGAACTTGTACAGTATGCTGGAAACATTATCCCAAGGCTTTACCTTTTGATCACAGTTGGAGTTGT  
 ATATGTCAAGTCATTTCTCAGTCCAGGAAGGATATTTTGAAGATTTGGTAGAAATGTGCCGTGGTGTG  
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 ATTTTACAGCAGGTGGCTACAGTGATACAGTCTAGACAAGACATGCCTCAGAGGATGTTGTATCTTTA  
 CAAGTCTCTGATTAATCTTGCCATGAAATGTTACCTGATCGTGTGGACTATGTTGATAAAGTTCTAG  
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 GATTCAAGATCAGCCAGATCAACCTGTAGAAGACCCTGATCCAGAAGATTTTGTGATGAGCAGAGCCTT  
 GTGGGCCGCTTCACTCATCTGCTGCGCTCTGAGGACCCTGACCAGCAGTACTTGATTTTGAACACAGCAC  
 GAAAACATTTTGGAGCTGGTGGAAATCAGCGGATTCGCTTCACTGCCACCTTTGGTATTTGCAGCTTA  
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 CATAACACACTGGAGCATTTCGCTTGGCGCGGAATCACCAAGTCCGAGGGCCCAATTTATGAAGTCT  
 TCATCCTT

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG210597 representing NM\_018206  
 Red=Cloning site Green=Tags(s)

MPTTQQSPQDEQEKLLEDAIQAVKVQSFQMKRCLDKNKLMALKHASNMLGELRTSMLSPKSYEELYMAI  
 SDEHLHYLEVYL TDEFAKGRKVADLYELVQYAGNIIPRLYLLITVGVVYVKSFQSRKDILKDLVEMCRGV  
 QHPLRGLFLRNYLLQCTRNILPDEGEPTDEETTGDISDSMDFVLLNFAEMNKLWVRMQHQGHSRDREKRE  
 RERQELRILVGTNLVRLSQLEGVNVRYKQIVLTGILEQVVNCRDALAQEYLMECIIQVFPDEFHLQTLN  
 PFLRACAEHLQNVNKNIIIALIDRLALFAHREDGPGIPADIKLFDIFSQQVATVIQSRQMPSEDEVVSL  
 QVSLINLAMKCYPDRVDYVDKVLLETTVEIFNKLNLEHIATSSAVSKELTRLLKIPVDTYNNILTVLKLKH  
 FHPLFEYFDYESRKSMSCYVLSNVDYNTIEIVSQDQVDSIMNLVSTLIQDQDPQVEDPDPEDFADEQSL  
 VGRFIHLLRSEDPDQYILNNTARKHFGAGGNQIRFTLPPLVFAAYQLAFRYKENSKVDDKWEKCKQKI  
 FSFAHQTISALIKAELAEPLRLFLQGALAAGEIGFENHETVAYEFMSQAFSLYEDEISDSKAQLAAITL  
 IIGTFERMKCFSEENHEPLRTQCALAASKLLKKPDQGRAVSTCAHLFWSGRNTDKNGEELHGGKRVMECL  
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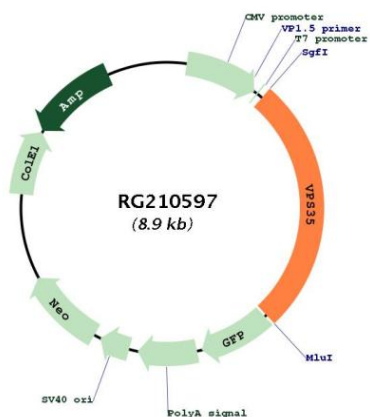
TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_018206.5</a>
<b>RefSeq Size:</b>	3246 bp
<b>RefSeq ORF:</b>	2391 bp
<b>Locus ID:</b>	55737
<b>UniProt ID:</b>	<a href="#">Q96QK1</a>
<b>Cytogenetics:</b>	16q11.2
<b>Domains:</b>	Vps35
<b>Gene Summary:</b>	<p>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. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RG210597