

## Product datasheet for **RG219699**

### VPS37C (NM\_017966) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	VPS37C (NM_017966) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	VPS37C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219699 representing NM_017966 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGACGCTGAAGGATAAGACCCTGCAGGAGCTGGAGGAGTTGCAGAATGACTCGGAGGCGATTGACC  
AGCTGGCCCTGGAGTCCCTGAGGTCCAGGACCTACAGCTGGAACGGGAGATGGCACTGGCCACCAACCG  
GAGCCTGGCAGAGCGGAACCTGGAGTCCAGGGTCCCCGGAGATCAGCCGCTCAAACCTCTCGGATAGA  
TACCAGGAGCTCCGGAAGCTCGTGGAGCGGTGCCAGGAGCAGAAGGCAAAGCTGGAGAAAATTTCTTCAG  
CACTGCAGCCAGGGACCTTGTTAGACCTTCTGCAGGTGGAAGGCATGAAGATCGAAGAAGAGTCCGAGGC  
CATGGCTGAGAAGTTCCTGGAGGGCGAGGTGCCCTGGAACGTTCTGGAGAATTTTCTCCATGAGG  
ATGCTGTCCACCTGCGCCGGTTCGCGTGAAAAAGCTCCAGGAAGTGGTGGAGGAAGCCAGGGCTTCCC  
AGGAGCTGGCCGGCGATGCCCTCCACCCCGTCCACCACCCCGGTGCGCCAGTCCCCAGGGAACACC  
CCCTGTGGTTGAAGAGCAGCCGAGCCACCATCAGCCATGCCTCCCTACCCTTTGCCCTACAGCCCATCC  
CCCAGCCTGCCTGTGGGCCCCACTGCCATGGAGCCCTGCCACCGGCCCTTTCCAGTAGTGTCCAGC  
CCTCCTTCTACAGCGGGCCTCTGGGCCCCACTTACCCGGCAGCCAGCTTGGACCCAGGGGTGCTGCGGG  
TTACTCCTGGTCCCCACAGAGGAGCATGCCACCCCGCCGGGCTATCCTGGGACCCCAATGGGTGCCTCT  
GGGCTGGTACCCCTTGGGGGAGGCAGGGCCCCAGTCTGTTATCCTCAACAGTCCCATAACCCCG  
CAACAGGAGGAAAACCTCCCTACCCAATACAGCCTCAGCTCCCCAGCTTTCAGGCCAGCCAGCCCTC  
AGTGCCCTGCAGCCCCCTTATCCCCCGGGCCGCCCTCCCTATGGGTCCCACCACCGCCGGGGCT  
GCCTGGCCTGGGTAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG219699 representing NM\_017966  
 Red=Cloning site Green=Tags(s)

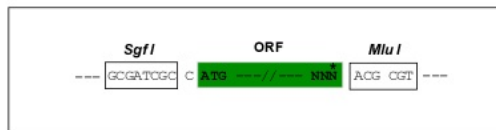
METLKDKTLQELEELQNDSEAIDQLALESPVQDLQLEREMALATNRS LAERNLEFQGPLEISRSNLSDR  
 YQELRKLVERCQEQKAKLEKFSALQPGTLLDLLQVEGMKIEESEAMAEKFLGEVPLETFLENFSSMR  
 MLSHLRRVRVEKLQEVVRKPRASQELAGDAPPPPPVVRVPVQGTTPVVEEQPQPPSAMPYPYPLPYS  
 PSLPVGPTAHGALPPAPFPVVSQPSFYSGPLGPTYAAQLGPRGAAGYSWSPQRSMPPRPGYPGTPMGAS  
 GPGYPLRGGRAPSPGYPQQSPYPATGGKPPYIQFQLPSFPGQPQPSVPLQPPYPPGPAPPYGFPPPPGP  
 AWPGY

TRTRPLE - GFP Tag - V

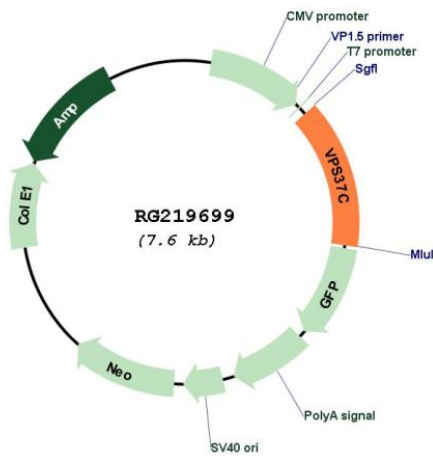
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM\_017966

<b>ORF Size:</b>	1065 bp
<b>OTI Disclaimer:</b>	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>
<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_017966.4</a> , <a href="#">NP_060436.4</a>
<b>RefSeq Size:</b>	2711 bp
<b>RefSeq ORF:</b>	1068 bp
<b>Locus ID:</b>	55048
<b>UniProt ID:</b>	<a href="#">A5D8V6</a>
<b>Cytogenetics:</b>	11q12.2
<b>Protein Pathways:</b>	Endocytosis
<b>Gene Summary:</b>	VPS37C is a subunit of ESCRT-I (endosomal sorting complex required for transport I), a complex in the class E vacuolar protein sorting (VPS) pathway required for sorting ubiquitinated transmembrane proteins into internal vesicles of multivesicular bodies (Eastman et al., 2005 [PubMed 15509564]).[supplied by OMIM, Mar 2008]