

## Product datasheet for **RG214704**

### VPS54 (NM\_016516) Human Tagged ORF Clone

#### Product data:

|                           |                                             |
|---------------------------|---------------------------------------------|
| Product Type:             | Expression Plasmids                         |
| Product Name:             | VPS54 (NM_016516) Human Tagged ORF Clone    |
| Tag:                      | TurboGFP                                    |
| Symbol:                   | VPS54                                       |
| Synonyms:                 | HCC8; hVps54L; PPP1R164; SLP-8p; VPS54L; WR |
| Mammalian Cell Selection: | Neomycin                                    |
| Vector:                   | pCMV6-AC-GFP (PS100010)                     |
| E. coli Selection:        | Ampicillin (100 ug/mL)                      |



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**ORF Nucleotide  
Sequence:**

>RG214704 representing NM\_016516  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCTTCAAGCCACAGTTCTTACCAGTGCCTCAAGGAAGCAGCAGTGATGTTTCTTTAAATAGAGG  
 TAGATCCGTCAAAACACATTGACCTGTGCCATCACTGCCAGATGTGTGTCCCAAGAACCCACAGGTGA  
 TTCACATAGTTTATATGTTGCCCATCTCTAGTTACAGATCAACATAGATGGACTGTATATCATTCCAAA  
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 CAGATGTTATTTTAAGAATTAATGCAAGTTATAAACTCCACTTGAAAAAGCAGTTATCTCACTTAAATG  
 TGATAATGATGGAGGACCTCAAAATGGGTTGGTCACAGCAGATGTAGCTTTTACTGGAATCTTCA  
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**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

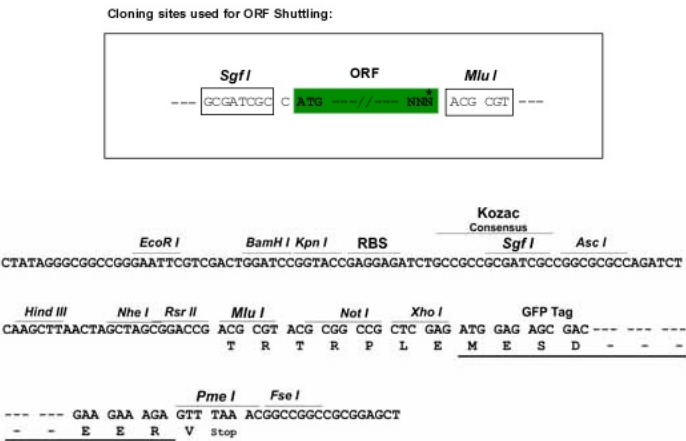
Protein Sequence: >RG214704 representing NM\_016516  
 Red=Cloning site Green=Tags(s)

MASSSSSPVPQGSSSDVFFKIEVDPSKHIRPVPSLPDVCPEKPTGDSHSLYVAPSLVTDQHRWTVYHSG  
 VNLPAALNDPRLAKRESDFFTKTWGLDFVDEVIPSFYLPQISKEHFTVYQQEISQREKIHCRKNICPP  
 KDTFERTLLHHDKSRDLEQVPKIFMKPDFALDDSLTFNSVLPWSHFNTAGGKGNRDAASSKLLQEKLS  
 HYLDIVEVNIHQISLRSEAFFHAMTSQHELQDYLRKTSQAVKMLRDKIAQIDKVMCEGSLHILRLALTR  
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 DKMMIAEFSTYSHDLNRPLEDDCQVLEERLISLVFGLLKQRKLNFLFIYGEKVMITAKNIKQCVINK  
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 EISQQKNAAKDNLSDTEVAYLIHEGMFISDAFGEGELTPIAVDTTSQRNASPNSEPCSSDSVSEPECTTD  
 SSSSKEHTSSSAIPGGVDIMVSEDMKLTSELGKLANNIQELLYSASDICHDRVAVKFLMSRAKDGFLKEL  
 NSMEFITLSRLMETFILDTEQICGRKSTSLGALQSQAIFVNRFHREERTKLSLLLDNERWKQADVPAE  
 FQDLVDSLSDGKIALPEKKSGATEERKPAEVLIVEGQQYAVVGTVLLLIIRIILEYCQCDVNIPSVTTDML  
 TRLSDLLKYFNSRSCQLVLGAGALQVVGLKTITTKNLALSSRCLQLIVHYIPVIRAHFEARLPKQYSML  
 RHFDHITKDYHDIHIAEISAKLVAIMDSLFDKLLSKYEKAPVPSACFRNICKQMTKMHEAIFDLLPEEQT  
 QMLFLRINASYKLHLKKQLSHLNVINDGGPQNGLVTAADVAFYTGNLQALKGLKDLNLMAEIQWEQKR

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

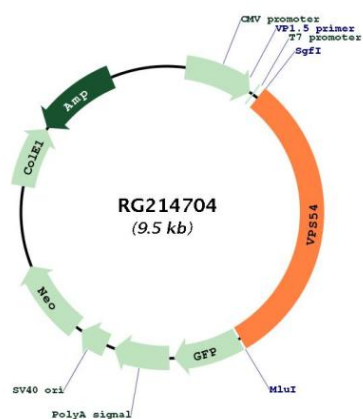


ACCN: NM\_016516

ORF Size: 2931 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_016516.3</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>RefSeq Size:</b>           | 3994 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 2934 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Locus ID:</b>              | 51542                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>UniProt ID:</b>            | <a href="#">Q9P1Q0</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Cytogenetics:</b>          | 2p15-p14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Gene Summary:</b>          | This gene encodes for a protein that in yeast forms part of a trimeric vacuolar-protein-sorting complex that is required for retrograde transport of proteins from prevacuoles to the late Golgi compartment. As in yeast, mammalian Vps54 proteins contain a coiled-coil region and dileucine motifs. Alternative splicing results in multiple transcript variants encoding different isoforms [provided by RefSeq, Jul 2008]                                                                                          |

## Product images:



Circular map for RG214704