

## Product datasheet for **RG233135**

### **SAP97 (DLG1) (NM\_001204388) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SAP97 (DLG1) (NM_001204388) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SAP97
Synonyms:	DLGH1; hdlg; SAP-97; SAP97
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG233135 representing NM\_001204388  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAATTACATTTTCGGAACAACACACTTCTATACTCTCGCGCAGTCGAGGAGCAACTACTAGCTCTA  
 GCCATGGCTCAGCAGGCCAAAGCAGAAACACTGGGCAAAAAGGGCTCGTCAGATGAACTGCAAGCTGA  
 GCCAGAACCTTACGCTGGCAGCAGATAGTTGCATTTTTCACTCGAAGACACAGCTTTATTGACTGCATC  
 TCGGTAGCCACCAGCTCCACCCAGGCAAATCCTCCCCAGTACTGGTCAACACAGATAGCTTGAAACAC  
 CAACTTACGTTAATGGCACAGATGCAGATTATGAATATGAAGAAATCACACTTGAAAGGGGAAATTCAGG  
 GCTTGGTTTCAGCATTGCAGGAGGTACGGACAACCCACACATTGGAGATGACTCAAGTATTTTCATTACC  
 AAAATTATCACAGGGGAGCAGCCGCCAAGATGGAAGATTGCGGGTCAATGACTGTATATTACGAGTAA  
 ATGAAGTAGATGTTCTGATGTAACACATAGCAAAGCAGTTGAAGCGTTGAAAGAAGCAGGGTCTATTGT  
 ACGCTTGTATGAAAAAGAAGGAAACCAGTGTGCAAAAAAATAATGGAATAAAGCTCATTAAAGGTCCT  
 AAAGGCTTGGGTTTAGCATTGCTGGAGGTGTTGGAAATCAGCATATTCCTGGGGATAATAGCATCTATG  
 TAACAAAATAAATTGAAGGAGGTGCAGCACATAAGGATGGCAAATTCAGATTGGAGATAAACTTTTAGC  
 AGTGAATAACGTATGTTTGAAGAAGTTACTCATGAAGAAGCAGTAACTGCCTTAAAGAACACATCTGAT  
 TTTGTTTATTTGAAAGTGGCAAAACCCACAAGTATGTATATGAATGATGGCTATGCACCACCTGATATCA  
 CCAACTCTTCTCAGCCTGTTGATAACCATGTTAGCCCATCTTCTTCTTGGGCCAGACACCAGCATC  
 TCCAGCCAGATACTCCCCAGTTTCTAAGCAGTACTTGGAGATGATGAAATTAAGGGAACTAGAAAA  
 GTTGTCTTTCATCGTGGCTCAACGGGCCCTGGTTTCAACATTGTAGGAGGAGAAGATGGAGAAGGAATAT  
 TTATTTCTTTATCTTAGCCGGAGGACCTGCTGATCTAAGTGGAGAGCTCAGAAAAGGAGATCGTATTAT  
 ATCGGTAAACAGTGTGACCTCAGAGCTGCTAGTCATGAGCAGGCAGCAGCTGCATTGAAAAATGCTGGC  
 CAGGCTGTCACAATTGTTGCACAATATCGACCTGAAGAATACAGTCGTTTTGAAGCTAAAATACATGATT  
 TACGGGAGCAGATGATGAATAGTAGTATTAGTTACGGGTCAGGTTCTCTTGAAGTACCCAGAACGATC  
 CCTCTATGTCAGAGCCCTTTTTGATTATGACAAGACTAAAGACAGTGGGCTTCCAGTCAGGGACTGAAC  
 TTCAAATTTGGAGATATCCTCCATGTTATTAATGCTTCTGATGATGAATGGTGGCAAGCCAGGCAGGTTA  
 CACCAGATGGTGAGAGCGATGAGGTCGGAGTGATCCAGTAAACGCAGAGTTGAGAAGAAAGAACGAGC  
 CCGATTAACAGTGAATTTCAATTCTAAAACGAGAGATAAAGGGGAGATCCCTGACGACATGGGATCA  
 AAAGGCCTGAAGCATGTAACCTTCTAATGCCAGCGATAGTAAAGTAGTTACCGTGGTCAAGAAGAATACG  
 TCTTATCTTATGAACCAGTGAATCAACAAGAAGTTAATTAATACTCGACCAGTGATCATATTGGGACCTAT  
 GAAAGACAGGATAAATGATGACTTGATCTCAGAATTTCTGACAAATTTGGATCCTGTGTTCTCATACA  
 ACTAGACCAAAACGAGATTATGAGGTAGATGGAAGAGATTATCATTTTGTGACTTCAAGAGAGCAGATGG  
 AAAAGATATCCAGGAACATAAATTCATTGAAGCTGGCCAGTATAACAATCATCTATATGGAACAAGTGT  
 TCAGTCTGTACGAGAAGTAGCAGAAAAGGGCAAACACTGTATCCTTGATGTGTCTGGAAATGCCATAAAG  
 AGATTACAGATTGCACAGCTTTACCCTATCTCCATTTTATTAACCCAAATCCATGGAAAATATCATGG  
 AAATGAATAAGCGTCTAACAGAAGAACAAGCCAGAAAAACATTTGAGAGAGCCATGAACTGGAACAGGA  
 GTTTACTGAACATTTACAGCTATTGTACAGGGGATACGCTGGAAGACATTTACAACCAAGTGAACAG  
 ATCATAGAAGAACAATCTGGTTCTTACATCTGGGTTCCGGCAAAAAGAAAGCTA

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

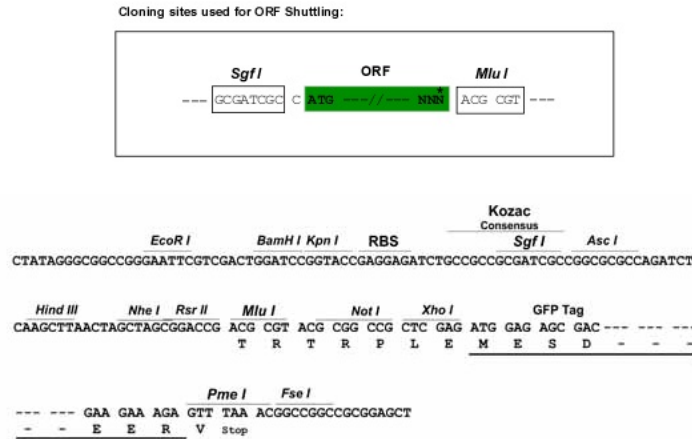
Protein Sequence: >RG233135 representing NM\_001204388  
 Red=Cloning site Green=Tags(s)

MNYIFGNNTLLYSRGSRGGNTSSSHGSAGPKQKHAKKSSDELQAEPEPSRWQQIVAFFTRRHSFIDCI  
 SVATSSQANPPPVLVNTDSLETPTYVNGTDADYEYEEITLERGNSGLGFSIAGGTDNPHIGDSSIFIT  
 KIITGGAAAQDGRRLRVNDCILRVNEVDVRDVTHSKAVEALKEAGSIVRLVYKRRKPVSEKIMEIKLIKGP  
 KGLGFSIAGGVGNQHIPGDNISIVYTKIIEGGAHKDGKLIQIGDKLLAVNNVCLEEVTHEEAVTALKNTSD  
 FVYLKVAKPTSMYMNDGYAPPDITNSSSQPVDNHVSPSSFLGQTPASPARYSPVSKAVLGDDEITREPRK  
 VVLRHGSTGLGFNIVGGEDGEGIFISFILAGGPADLSEGLRKGDRISVNSVDLRAASHEQAAAALKNAG  
 QAVTIVAQYRPEEYSRFEAKIHDLRQMMNSSISSGSGSLRTSQKRSLYVRALFDYDKTKDGLPSQGLN  
 FKFGLDILHVINASDDEWWQARQVTPDGESDEVGVIPSKRRVEKKERARLKTVKFNSKTRDKGEIPDDMGS  
 KGLKHVTSNASDSESSYRGQEEYVLSYEPVNVQEVNYTRPVIILGPMKDRINDDLISEFPDKFGSCVPHT  
 TRPKRDYEVDRDYHFVT SREQMEKDIQEHKFIEAGQYNNHLYGTSVQSVREVAEKGKHCILDVSGNAIK  
 RLQIAQLYPI SIFIKPKSMENIMEMNKRLTEEQARKTFERAMKLEQEFTEHFTAI VQGD TLEDIYNQVKQ  
 IIEEQSGSYIWPVPAKEKL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

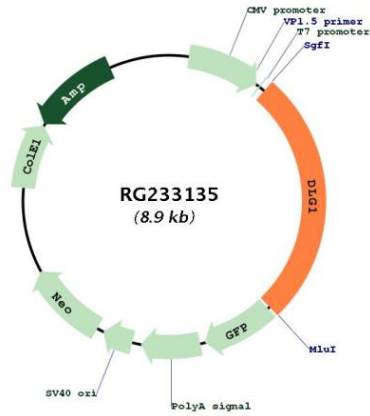


ACCN: NM\_001204388

ORF Size: 2364 bp

<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>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<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>	<p><a href="#">NM_001204388.1</a>, <a href="#">NP_001191317.1</a></p>
<b>RefSeq Size:</b>	<p>4762 bp</p>
<b>RefSeq ORF:</b>	<p>2367 bp</p>
<b>Locus ID:</b>	<p>1739</p>
<b>UniProt ID:</b>	<p><a href="#">Q12959</a></p>
<b>Cytogenetics:</b>	<p>3q29</p>
<b>Protein Families:</b>	<p>Druggable Genome</p>
<b>Protein Pathways:</b>	<p>T cell receptor signaling pathway</p>
<b>Gene Summary:</b>	<p>This gene encodes a multi-domain scaffolding protein that is required for normal development. This protein may have a role in septate junction formation, signal transduction, cell proliferation, synaptogenesis and lymphocyte activation. A multitude of transcript variants deriving from alternative splicing and the use of multiple alternate promoter have been observed, including some splice variants that may be specific to brain and other tissues. An upstream uORF may regulate translation at some splice variants of this gene. [provided by RefSeq, Sep 2018]</p>

Product images:



Circular map for RG233135