

## Product datasheet for **RG218949**

### DOC2B (NM\_003585) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DOC2B (NM_003585) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DOC2B
Synonyms:	DOC2BL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG218949 representing NM_003585 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCTCCGGCGCGGGGAGAAGGCGACCATCAGCATCCAGGAGCATATGGCCATCGACGTGTGCC  
CCGGCCCCATCCGTCCCATCAAGCAGATCTCCGACTACTCCCCCGCTTCCCGCGGGGCTGCCCCCGGA  
CGCCGGGCCCCGAGCCGCTGCACCCCGGACGCCCCCGCGCGCCGGCTGTGGCCGGTCCGGCCCGCCG  
AGCCCTCCGACGGCGCCCGGAGGACGACGAGGATGTGGACCAGCTCTCGGAGCTACGGCTCCAGCC  
CGGGCCCCAGCCGGGTCCAGCCCGCGCGGCCAGCCAAGCCCGCGGAGGACGAGCCGGACGCCGA  
CGGCTACGAGTCGGACGACTGCACTGCCCTGGGCACGCTGGACTTCAGCCTGCTGTATGACCAGGAGAAC  
AACGCCCTCCACTGCACCATCACCAAGGCCAAGGGCCTGAAGCCAATGGACCACAATGGGCTGGCAGACC  
CCTACGTCAAGCTGCACCTGCTGCCAGGAGCCAGTAAGGCAAAATAAGCTCAGAACAAAACCTCTCCGTAA  
CACTCTGAACCCACATGGAACGAGACCCTCACTTACTACGGGATCACAGATGAAGACATGATCCGCAAG  
ACCCTGCGGATCTCTGTGTGTGACGAGGACAAATCCGGCACAATGAGTTCATCGGGGAGACACGTGTGC  
CCCTGAAGAAGCTGAAACCAACCACCAAGACCTTCAACATCTGCCTGGAGAAGCAGCTGCCGGTGA  
CAAGACTGAAGACAAGTCCCTGGAGGAGCGGGCCGCATCCTCATCTCCCTCAAGTACAGCTCACAGAAG  
CAAGCCCTGCTGGTAGGCATCGTGGGTGCGCCACCTGGCCCATGGACGCCAACGGCTACTCGGAC  
CCTACGTGAAAACATACCTGAGGCCAGATGTGGACAAGAAATCCAACATAAGACAGCGGTGAAGAAAA  
AACCTGAACCCGGAGTTAATGAGGAGTCTGTTACGAGATCAAGCATGGGACCTGGCCAAGAAGTCC  
CTGGAGGTACCGTTTGGGATTACGACATTGAAAATCCAACGATTTATTGGTGGTGTGGTTCTGGGCA  
TCCACGCCAAGGGGAGCGCCTGAAGCACTGGTTTGACTGCCTGAAGAACAAGGACAAGCGCATCGAGCG  
CTGGCACACGCTCACCAGCGAGCTCCAGGGGCTGTGCTCAGCGAC

**ACGGT**ACGGCGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG218949 representing NM\_003585  
 Red=Cloning site Green=Tags(s)

MTLRRRGEKATISIQEHMAIDVCPGPIRPIKQISDYFPRFPRGLPPDAGPRAAAPDAPARPAVAGARR  
 SPSDGAREDDVDQLFGAYGSSPGSPGSPARPPAKPEDEPDADGYESDDCTALGTLDFSLLYDQEN  
 NALHCTITKAKGLKPMDHNLADPYVKLHLLPGASKANKLRKTLRNTLNPTWNETLTYGITDEDMIRK  
 TLRISVCDEDKFRHNEFIGETRVPLKCLKPNHTKTFNICLEKQLPVDKTEDKSLEERGRILISLKYSSQK  
 QGLLVGIVRACHLAAMDANGYSDPYVKTYLRPDVDKSKHKTAVKKKTLNPEFNEEFCYEIKHGDLAKKS  
 LEVTVWDYDIGKSNDFIGGVVLGIHAKGERLKHWFDCLEKNKDKRIERWHTLTSELPGAVLSD

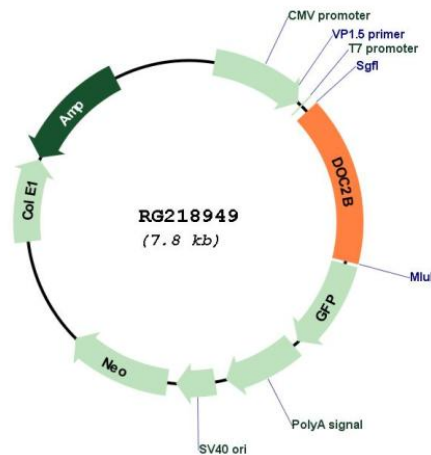
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_003585

<b>ORF Size:</b>	1236 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_003585.2</a>
<b>RefSeq Size:</b>	2030 bp
<b>RefSeq ORF:</b>	1239 bp
<b>Locus ID:</b>	8447
<b>UniProt ID:</b>	<a href="#">Q14184</a>
<b>Cytogenetics:</b>	17p13.3
<b>Gene Summary:</b>	There are at least two protein isoforms of the Double C2 protein, namely alpha (DOC2A) and beta (DOC2B), which contain two C2-like domains. DOC2A and DOC2B are encoded by different genes; these genes are at times confused with the unrelated DAB2 gene which was initially named DOC-2. DOC2B is expressed ubiquitously and is suggested to be involved in Ca(2+)-dependent intracellular vesicle trafficking in various types of cells. [provided by RefSeq, Jul 2008]