

Product datasheet for **RG208788**

DOC2A (NM_003586) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DOC2A (NM_003586) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DOC2A
Synonyms:	Doc2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208788 representing NM_003586 Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GGCGCGCC**

ATGAGGGGCGCAGGGGCGATCGCATGACCATCAACATCCAGGAGCACATGGCCATCAACGTGTGCCCCG
GGCCATCCGGCCATCCGCCAGATCTCTGACTACTTCCCCGGGGACCAGGACCTGAAGGGGGCGGCGG
GGGCGGGGAGGCCCGCCATCTGGTCCCCCTGGCTCTGGCCCCCTGCAGCCCTCCTTGGGGCC
ACCACGCCTGAGGATGGTGGGAGGTGGACAGCTATGACTCGGATGATGCCACCGCCCTAGGCACGCTGG
AGTTTGACCTTCTACGACCGGCCTCCTGCACTCTGCACTGTAGCATCCTCAGGGCCAAGGGCCTCAA
GCCATGGATTTCAATGGCCTCGCCGACCCTAGTCAAGCTGCACTTGCCTGGAGCCTGTAAGGCC
AATAAGCTAAAAACGAAGACTCAGAGGAACACACTGAATCCCGTGTGGAATGAGGACCTGACTTACAGCG
GGATCACAGATGACGACATCACGCACAAGGTGCTCAGGATCGCCGTCTGTGATGAGGACAAGCTGAGTCA
CAATGAGTTTATTGGGGAGATCCGCGTGCCCTCCGCGCCTCAAGCCTTCGCAGAAGAAGCATTTTAAC
ATCTGCCTCGAGCGCCAGGTCCCCTGGCGTCCCCTCTTCCATGTCAGCGGCGCTGAGGGGCATCTCCT
GTTATCTGAAGGAGTTGGAGCAGGCGGAGCAGGGGCGGGGCTGCTGGAGGAGCGTGGCCGATCCTGCT
GAGTCTCAGCTACAGCTCGCGGCGCCGGGACTGCTGGTAGGCATCTTGGCTGCGCCCATCTGGCTGCC
ATGGACGTCAACGGTTACTCGGACCCCTACGTCAGACGTACCTGAGGCCGATGTGGCAAGAAATCCA
AGCATAAGACGTGTGTGAAGAAGAAGACTCTCAACCCAGAAATTAACGAGGAGTTTTTCTACGAGATAGA
GCTCTCCACTCTGGCCACCAAGACCCCTGGAAGTCAACCGTCTGGGACTATGACATTGGCAAATCCAATGAC
TTCATTGGTGGCGTGTCCCTGGGGCCAGGTGCCGAGGCGAGGCTCGGAAGCACTGGAGTACTGCCTGC
AGCAGCCGACGCAGCCCTGGAGCGCTGGCACACCCTGACCAGTGAAGTGCCTGCGGCCGGGCTCT
GTCCTCAGCC

ACGCGTACGCGGCGCCTCGAG - GFP Tag - GTTTAA



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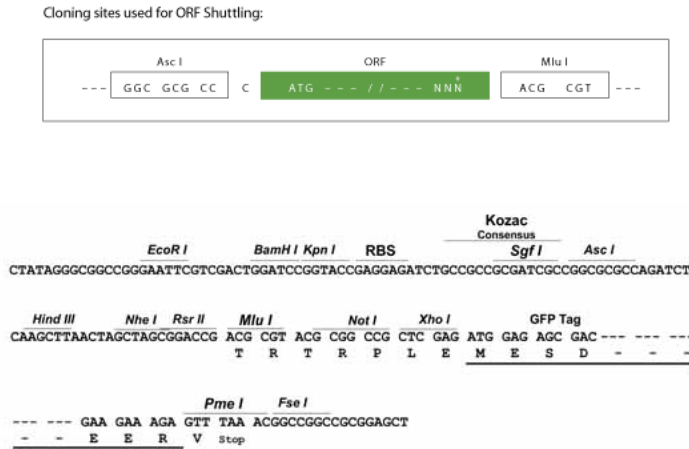
Protein Sequence: >RG208788 representing NM_003586
 Red=Cloning site Green=Tags(s)

MRGRRGDRMTINIQEHMAINVCVPIRPIRQISDYFPRGPGPEGGGGGGEAPAHLVPLALAPPAALLGA
 TTPEDGAEVDSYSDSDATALGTLFEDLLYDRASCTLHCSILRAKGLKPMDFNGLADPYVKLHLLPGACKA
 NKLKTKTQRNTLNPVWNEDLTYSGITDDDIHVKVLRIVCDEKLSHNEFIGEIRVPLRRLKPSQKKHFN
 ICLEERQVPLASPSMSAALRGISCYLKELEQAEQGQGLLEERGRILLSLSYSSRRRGLLVGILRCAHLAA
 MDVNGYSDPYVKTYLRPDVDKSKHKTCVKKKTLNPEFNEEFFYEIELSTLATKTLLEVTVWDYDIGKSN
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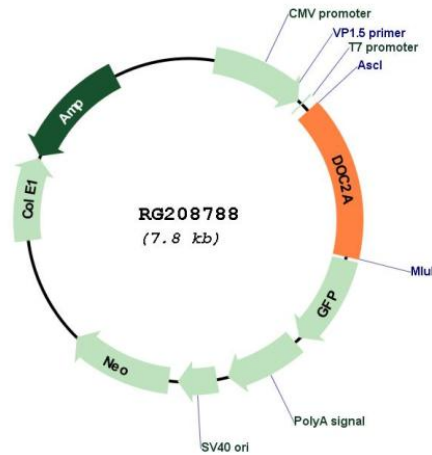
TRTRPLE - GFP Tag - V

Restriction Sites: AscI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_003586

ORF Size:	1200 bp
OTI Disclaimer:	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. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	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).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.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.
RefSeq:	NM_003586.3
RefSeq Size:	2089 bp
RefSeq ORF:	1203 bp
Locus ID:	8448
UniProt ID:	Q14183
Cytogenetics:	16p11.2
Protein Families:	Secreted Protein
Gene Summary:	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. DOC2A is mainly expressed in brain and is suggested to be involved in Ca(2+)-dependent neurotransmitter release. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]