

## Product datasheet for **SC335878**

### DOC2A (NM\_001282062) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DOC2A (NM_001282062) Human Untagged Clone
Tag:	Tag Free
Symbol:	DOC2A
Synonyms:	Doc2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335878 representing NM_001282062. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTA
CCGAGGAGATCTGCCGCCGCGATCGCCGGCGCGCC
ATGAGGGGCCGAGGGGCGATCGCATGACCATCAACATCCAGGAGCACATGGCCATCAACGTGTGCCCC
GGGCCCATCCGGCCCATCCGCCAGATCTCTGACTACTTCCCCGGGGACCAGGACCTGAAGGGGGCGGC
GGGGGGCGGGGAGGCCCGCCCATCTGGTCCCCCTGGCTCTGGCCCCCTGCAGCCCTCCTTGGG
GCCACCACGCCTGAGGATGGTGGGAGGTGGACAGCTATGACTCGGATGATGCCACCGCCCTAGGCAGC
CTGGAGTTTGACCTTCTCTACGACCGGGCTCCTGCACCTGCACTGTAGCATCCTCAGGCCAAGGGC
CTCAAGCCATGGATTTCAATGGCTCGCCGACCCTACGTCAAGCTGCACTTGTGCCTGGAGCCTGT
AAGGCCAATAAGCTAAAAACGAAGACTCAGAGGAACACACTGAATCCCGTGTGGAATGAGGACCTGACT
TACAGCGGGATCACAGATGACGACATCACGCACAAGGTGCTCAGGATCGCCGTCTGTGATGAGGACAAG
CTGAGTCACAATGAGTTTATTGGGGAGATCCGCGTGCCCTCCGCGCCCTCAAGCCTTCGCAGAAGAAG
CATTTTAAACATCTGCCTCGAGCGCCAGGTCCCCTGGCGTCCCCCTTTCCATGTGAGCGGCGCTGAGG
GGCATCTCCTGTTATCTGAAGGAGTTGGAGCAGGCGGAGCAGGGGAGGGGCTGCTGGAGGAGCGTGGC
CGCATCCTGCTGAGTCTCAGCTACAGCTCGCGGCCCGGGGACTGCTGGTAGGCATCTTGCCTGCGCC
CATCTGGCTGCCATGGACGTCAACGTTACTCGGACCCCTACGTCAAGACGTACCTGAGGCCCGATGTG
GACAAGAAATCCAAGCATAAGACGTGTGTGAAGAAGAAGACTCAACCCAGAATTTAACGAGGAGTTT
TTCTACGAGATAGAGCTCTCCACTCTGGCCACCAAGACCCTGGAAGTCAACGCTCTGGGACTATGACATT
GGCAAATCCAATGACTTCATTGGTGGCGTGTCCCTGGGGCCAGGTGCCGAGGCGAGGCTCGGAAGCAC
TGGAGTACTGCCTGCAGCAGCCGACGACGCCCTGGAGCGCTGGCACACCCTGACCAGTGAAGTGCCT
CCTGCGGCCGGGGCTCTGTCTCAGCCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

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Restriction Sites: Ascl-MluI



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<b>ACCN:</b>	NM_001282062
<b>Insert Size:</b>	1203 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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_001282062.1</a>
<b>RefSeq Size:</b>	2128 bp
<b>RefSeq ORF:</b>	1203 bp
<b>Locus ID:</b>	8448
<b>UniProt ID:</b>	<a href="#">Q14183</a>
<b>Cytogenetics:</b>	16p11.2
<b>Protein Families:</b>	Secreted Protein
<b>MW:</b>	44 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript. Variants 1 through 4 encode the same protein.</p>