

## Product datasheet for **SC126140**

### DOC2A (NM\_003586) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DOC2A (NM_003586) Human Untagged Clone
Tag:	Tag Free
Symbol:	DOC2A
Synonyms:	Doc2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_003586 edited  
 TGTGGGAAACCCGCGATTCTGGCGCTGCTTCTGGTGGCGAGGGAGCCCGCGTG  
 TTTGCGAGTGCCTGTGTGTGCGAAGTTCTCCGGCTCGACTCCGCGCTCTCTCGCCGGCC  
 GCCCGCCAGCCAGCTGCGCCCGCGTCCCCCAGTGCCTGGGCACCTGTTGGAGGCAGAG  
 CCAGGGGTGCTGCATGAGGGGCCGAGGGGCGATCGCATGACCATCAACATCCAGGAGCA  
 CATGGCCATCAACGTGTGCCCGGGCCCATCCGGCCATCCGCCAGATCTCTGACTACTT  
 CCCCCGGGACCAGGACCTGAAGGGGGCGGGGGGGCGGGGGAGGCCCCCGCCATCT  
 GTCCCCCTGGCTCTGGCCCCCCTGCAGCCCTCCTTGGGGCCACCACGCCTGAGGATGG  
 TCGGAGGTGGACAGCTATGACTCGGATGATGCCACCGCCTAGGCACGCTGGAGTTTGA  
 CCTTCTCTACGACCGGGCCTCTGCACTCTGCACTGTAGCATCCTCAGGGCCAAGGGCCT  
 CAAGCCCATGGATTTCAATGGCCTCGCGACCCCTACGTCAAGCTGCACTTGCTGCCTGG  
 AGCCTGTAAGGCAATAAGCTAAAAACGAAGACTCAGAGGAACACACTGAATCCCGTGTG  
 GAATGAGGACCTGACTTACAGCGGGATCACAGATGACGACATCACGCACAAGGTGCTCAG  
 GATCGCCGTCTGTGATGAGGACAAGCTGAGTACAATGAGTTTATTGGGAGATCCGCGT  
 GCCCTCCGCGCCTCAAGCCTTCGAGAAGAAGCATTTTAAACATCTGCCTCGAGCGCCA  
 GGTCCCGCTGGCGTCCCCCTCTCCATGTCAGCGCGCTGAGGGGCATCTCTGTATATCT  
 GAAGGAGTTGGAGCAGGCGGAGCAGGGGAGGGGCTGCTGGAGGAGCGTGGCCGCATCCT  
 GCTGAGTCTCAGCTACAGCTCGCGGCGCCGGGACTGCTGGTAGGCATCTTGCCTGCGC  
 CCATCTGGCTGCCATGGACGTCAACGGTACTCGGACCCCTACGTCAAGACGTACCTGAG  
 GCCCGATGTGGACAAGAAATCCAAGCATAAGACGTGTGTGAAGAAGAAGACTCTCAACCC  
 AGAATTTAACGAGGAGTTTTTCTACGAGATAGAGCTCTCCACTCTGGCCACCAAGACCCT  
 GGAAGTACCCTGTTGGACTATGACATTGGCAAATCCAATGACTTCAATGGTGGCGTGTG  
 CCTGGGGCCAGGTGCCGAGGCGAGGCTCGGAAGCACTGGAGTACTGCCTGCAGCAGCC  
 GGACGCAGCCCTGGAGCGCTGGACACCCCTGACCAGTGAAGTGGCCCTGCGGGCCGGGC  
 TCTGTCTCAGCCTGAGTGGACAGCAGTGTCCCGCACAGGCCCATCGAGCCGGTCCAG  
 TACCAACCTTCGCACGAGTGTGTTGCACGTTTACACAGGGTGGGCTGCCCCACCCTGC  
 ACTACCTATTTTTGTGAGTCTCCGTGACCCGGTCTGTCTGCTCATGAGGGGCTGCGGAG  
 TTCTATATTCACATATGCAAACCTCCTGCCTGACTCGCTAGTCCCTGCAAATATGCAAAC  
 CCCCCATCATCTGCACACCCGGCAGTGTCTCAGAGCCCGCCCCAGGCCCCCGCGCTCT  
 CACTCTGCCTCTCCACGCTGCCCGTCCCTCTCCCCAACAGGGAGGAGGTCGGATTAG  
 GGGAGTTTCAGAGGAGGAGAATGTCCCAAAAAAAAAAAAAAAAAA

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_003586 unedited  
 GGTCAATTTTTGTATACACTCATATAGGCGGCCGATAACTTCGTATAGCATAACATTATA  
 CGAAGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTGAGAGCGTGTGGGGAA  
 CACCCGGGATTTCTGGCGGCTGCTTCTGGTGGCGCAGGGAGCCCGCGTGTGGCGAGTG  
 CGTGTGTGCGAAGTTCTCCGGCTCGACTCCGCGCTCTCTCGCCGGCCGCCCGCCGCC  
 AGCCTGCCCCCGCGTCCCCCAGTGCCTGGGCACCTGTTGGAGGCAGAGCCAGGGGTGC  
 TGCATGAGGGGCCGAGGGGCGATCGCATGACCATCAACATCCAGGAGCATGGCCATC  
 AACGTGTGCCCGGGCCCATCCGGCCATCCGCCAGATCTCTGACTACTTCCCCGGGGA  
 CCAGGACCTGAAGGGGGCGGGGGGGCGGGGAGGCCCCCGCCATCTGGTCCCCTG  
 GCTCTGGCCCCCCTGCAGCCCTCCTTGGGGCCACCACGCCTGAGGATGGTGGGAGGTG  
 GACAGCTATGACTCGGATGATGCCACCGCCTAGGCACGCTGGAGTTTACCTTCTCTAC  
 GACCGGGCCTCCTGCACTCTGCACTGTACCATCCTCAGGGCCAAGGGCCTCAAGCCCATG  
 GATTTCAATGGCCTCGCCGACCCCTACGTCAAGCTGCACTTGCTGCCTGGAGCCTGTAAG  
 GCCATAAGCTAANAACGAAGACCTCAGAGAAACACTTGAACCCGTGTGAATGAGGACC  
 TGACTTAAAGCGGATCACAGATGACGACATCCCCCNAGTGGTCAAGATCGCCCTCT  
 TGTATGAGGACAACCTGGATCCCAAGGAGTTTATTGGGGAGAATCGGGTGGCCTTCCGGC  
 CCGTAAGCTCTTTCAAAAAAGCATTTTATATA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_003586

<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_003586.2</a> , <a href="#">NP_003577.2</a>
<b>RefSeq Size:</b>	2089 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>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 (3) lacks an alternate exon and uses an alternate splice site in the 5' UTR compared to variant 1. Variants 1 through 4 encode the same protein.</p>