

Product datasheet for **MC205087**

Doc2a (NM_010069) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Doc2a (NM_010069) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Doc2a
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC055768
 TGCTTTCTAGGATGGGGGTGTGAGTGGAAACCAGCGTCGCTATGGCAACCAGGCCGGGTGGTCGGGCCCT
 GGAGCCCTGGGAGCCAGCGAAGGCGAGAGGCGGGGCGAGCGGGAGGCGCCAGGGCTGCGGGCGGGGGCGGG
 GGCCTGGGTCTCCCGGGAGGAGCTGGGGAAACCCGGGCGCCTCTCGCGGAGGTGCACGCCAAGTTCTCGG
 GTGAGTGTGCACGCGTGTGAGCTGGCCCAAGGCTCACGGGCGGGCGTGTGAGCAGGACACAGTGTGAGT
 GTGCACTCGCGTGCCTTCTGGGGCCCGTGTGCCCCCTGCGCCCCCGCCCCCTCCCGGCCCGCCGAGTCCGCCCGC
 CAGCTCCCGCACTCCCGCCCCCGCCGCTTCTCGCTCGGTCTCGCCCCCGCCGCGCAGTCCGCCCGC
 CCGCCCAGCCTGCGCCCACGGGCGCCCGTGCCTGGCACCTGTTGGAGGCTCAGGGACAGGACTGATCTG
 GCAACCCACCCAGCCCTTGTGAAGCCAGGCTCCTGCCTGCCACCAGCCAGCGCAGATCATCTTTTCC
 CTCGACACCCAGGAAGGGAGGGCAGTGTGAGTTCCTACAGACCCAGCCGGCCACTCCAGCTCTACACCCG
 TCTCCAGTCAAGGTTGCTGCATGAGGGGCCGAGGGGCGATCGCATGACCATCAACATCCAGGAGCACA
 TGGCCATCAACGTGTGCCCTGGACCCATCAGGCCATCCGCCAGATCTCCGACTACTTCCCTCGCAGGGG
 GCCAGGACCAGAGGTGGCGGCGGCGGTGGCACGGGCTGCGGGGAAGCCCCAGCTCATCTGGCCCT
 CTGGCTCTGGCCCCCTGCGGCTCTCCTTGGGGCCACTACACCCGACGATGGAGCTGAGGTAGACAGCT
 ACGACTCGGATGATACCACCGCCCTGGGCACACTGGAATTTGACCTTCTCTATGATCAGGCTTCTGCAT
 GCTGCACTGTAGAATCCTCAGGGCCAAGGGCCTCAAGCCATGGATTTCAATGGCCTGGCTGACCCCTAT
 GTAAAGCTTACCTCCTGCCAGGAGCCTGCAAGGCCAATAAGCTAAAAACCAAGACACAGAGGAACACAC
 TGAACCTGTGTGGAATGAGGAGCTGACGTACAGCGGGATCACGGATGATGACATCACCCACAAGGTGCT
 CAGGATCTCTGTCTGTGATGAGGACAAGCTGAGCCACAATGAATTCATTGGGGAGATCCGAGTGGCCCTC
 CGCCGCTCAAGCCTTACAGAGAAGCATTAAACATCTGCCTTGAAGGCCAGGTCCCGCTTCTTAC
 CCTTTCAATGTCTGCGGCGCTGAGGGGCATATCCTGTTACCTGAAGGAGCTGGAGCAGGAGAGCAGGG
 ACCTGGGCTGCTGGAAGAGCGCGGGCGCATCCTGCTGAGCCTCAGCTACAGCTCTCGGCGCATGGGCTG
 CTGGTGGGCATTGTTGCTGTGCGCACCTGGTGCATGGATGTTAACGGTACTCTGACCTTATGTGA
 AGACGTACTTGAGACCAGATGTGGATAAGAAATCCAAGCACAAAACATGTGTAAGAAGAAGACACTAAA
 TCCGAATTTAATGAGGAATTCTTCTATGAGATTGAACTCTCCACTCTGGCCACTAAGACCTGGAGGTC
 ACAGTCTGGGACTACGACATTGGCAATCCAATGACTTCATAGGTGGTGTGCTCTGGGGCCAGGAGCCC
 GGGGAGAGGCCAGAAACACTGGAATGACTGTCTACATCAGCCGACACAGCCCTGGAGCGCTGGCATA
 TCTGACCAGCGAGCTGCCCCCTGCAGCAGGGGCTTACCTTTGGCTTGTGTAACAGCAGCTGTCCATCA
 CAGGCCCTCTGGGGCCGGTCCAGTACCAACCTTCGCACGAGTGTGTTGCACGTTTACATGGGGTGGGA
 TGCCCCCTGCCACACTACCTGTCTATTTTTGTGAGTCTCTGTGACGGGCTGTCTTGTGAGGGAC
 TGTGGAGAGCTATATTCACATATGCAAACCTTCTCCTGCCTGCCTTGCTGTTACCTGCAAAATATGCAAC
 ACCCGTGACAGGGCCAGTGGGAGTCTCTGCCAGTGCACCCACCCATCCTGCAGCTCCTTTCTGGCC
 TTTCCAGGCTGCCTGGTCCCCTGCCACAGGGAGGGGTCGGATTAGGGAAAGATTAGAGGAGGACGTTT
 CCAAAATAGAGGAAAGGACAAGGAAAGAAAGAGCCAACTTTAATACAGAGCCTTCACTAAATCCCAGCC
 CTGCGTAGCTGCTCTTAAAGGGGCGGCCACCGTAGGTCTCTACCTCCCAGAGATGTAGCAGACCCCTT
 TGGCCACTCGTTAAATAACTGTTCCCTGGATGGGGCTGGGATGTAAGGGCAGGACCCTGCCACCTTCT
 CGGGGACATTGTGCATGTTTACGCTTTTCTGATTGTGTCAGTGGCCGAAGCATGGCAACTGGGCATCAA
 TAAACATCTCTTGAGGAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: AscI-NotI

ACCN: NM_010069

Insert Size: 1218 bp

OTI Disclaimer: 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).

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:

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: [BC055768](#), [AAH55768](#)

RefSeq Size: 2557 bp

RefSeq ORF: 1218 bp

Locus ID: 13446

UniProt ID: [Q7TNF0](#)

Cytogenetics: 7 F3

Gene Summary: Calcium sensor which most probably regulates fusion of vesicles with membranes. Binds calcium and phospholipids. May be involved in calcium dependent neurotransmitter release through the interaction with UNC13A. May be involved in calcium-dependent spontaneous release of neurotransmitter in absence of action potentials in neuronal cells. Regulates Ca(2+)-dependent secretory lysosome exocytosis in mast cells.[UniProtKB/Swiss-Prot Function]