

Product datasheet for **SC126005**

PHOX2A (NM_005169) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PHOX2A (NM_005169) Human Untagged Clone
Tag:	Tag Free
Symbol:	PHOX2A
Synonyms:	ARIX; CFEOM2; FEOM2; NCAM2; PMX2A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_005169 edited
 CTGAGTGGCGCCGCGACGGGGCGGGCGGACTCTCGGGCGCTCAGAGCTGGCCTCGGGTCC
 TCGGAGCTGGCGCTCGAACCTCCCTTCGACCTCCACCCGACCCCGACCCCGACCCGG
 CCTGGCCCCGGCCCCCGCCCCCGGGCCGATGGACTACTCTACCTCAATTTCGTA
 CGACTCGTGCCTGGCGCCATGGAGGCTCCGCTACGGCGACTTTGGCGCTGCAGCCA
 CCCCAGCGGCTTCCAATACAGCCCCCTGCGGCCGCTTTCCCGCGGCAGGGCCGCTG
 CCCCAGCTCGGCTCCTCAACTGCGCACTTGGCGCCCTACGCGACCACAGCCCGCGG
 CTACTCGGCAGTGCCCTACAAGTTCTTCCAGAGCCATCCGGCCTGCACGAGAAGCGAA
 GCAGCGCGCATCCGACCACGTTCAACAGCGCGAGCTCAAGGAGCTGGAGCGGTTTT
 CGTGAGACCCACTACCCGACATTTACACGCGTGAGGAGCTGGCGCTCAAGATCGACCT
 CACTGAGGCTCGCGTGCAGGTCTGGTTCCAGAACCGCCGGCCAAAGTTCCGCAAACAGGA
 GCGCGCGCCAGCGCCAAGGGCGCGGGCGGGCGGGCCAAAAAGGGCGAGGCGCG
 CTGCTCTCCGAGGACGACGATTCCAAGGAGTCCACGTGCAGCCACGCCCAGTACGAC
 CGCTCGTGCCCGCCGCTGCGCCCGCTGGCCAGCCCGCGCTGAGCCCCAGCC
 GCTGCCCGTGCCTGGGCTCCGGGCGGGACCTGGGCCGGGGCCACAGCCGCTCAAGGG
 CGCACTGTGGGCGGTGTGGCGGGCGGTGGGGCGGGCGGCTGGCGCGGAGCGGCCGA
 ACTACTTAAGGCTTGGCAGCCGGCGGAGTCCGGCCCCGGGCCCTTCTCCGGGTTCTGTC
 CTCCTTACCCGGAAGCCCGGCCCGCCCTGAAGACCAATCTCTTAGCTGCCGGCCTC
 TGGAGGCTCCGAGCCTGCCCCAGAGACGTCCCTGCCCTCCAGGACCTGACAGCCCTC
 CCATCTGGCCACCCGCTGGAAGTCCCATCCGTCTCCACTCCCTACTGTCTCACCCCT
 CGGTGTCTCTCCCAACTTTGGAGACCAAGTCAAGGCCACTCTCGTCTCACCCACCT
 TACCAGCAGAGCGGAGTTCTTTATACCGGGACCTCTCCAGGAGAACCCCGAGCTCCT
 TTAGCTTGGCTTCTTTGGATGCGGTATCACATGAGGCTGTCCCTAACAGTGCCTCA
 AAGTGAAGGTCTCAAGGAGGATCGGCACAGCCCTTCCCTGGCTCTGCAGCGGCTGGG
 TCAACCCCTTACGCTGGTATCAGGAAAGCCGCTGCCCAACCCCTCGGGCCACCCGTAC
 AGAGGCTGGTGGTGCAGGGATAATTAATGACCACCGCAATTCATCCCTCACGTGTCTC
 CTCTTCCCTAGCCGCTGACACAGAGGGTGGACCTGTTAGAGGAGTGGAGGGGCTGC
 CTGGGGAATGGGACAGAGGATTCTTTCCCTAATTTTTTTGGTTGTCTTTTTCTTTG
 AAAAACTGTAAATTTATTGAAGTTTTACTCAATCAAATAAACTTAATTTATTGAAGAC
 AAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_005169 unedited
 GTTCAGGATTTGTAACGACTACTATAGGCGGCCGGAATTCGCACGAGGCTGAGTGGC
 GCCGCGACGGGGCGGGCGGACTCTCGGGCGCTCAGAGCTGGCCTCGGGTCTCGGAGCCT
 GGCGCTCGAACCTCCCTTCGACCTCCACCCGACCCCGACCCCGACCCGGCCTGGCCCC
 GCCCCCGCCCCCGCCCCGGCCGATGGACTACTCTACCTCAATTCGTACGACTCGTG
 CGTGGCGGCCATGGAGGCTCCGCTACGGCGACTTTGGCGCTGCAGCCAGCCCGGGCGG
 CTTCCAATACAGCCCCCTGCGGCCGCTTTCCCGCGGCAGGGCCGCTGCCCCGCGCT
 CGGCTCCTCAACTGCGCACTTGGCGCCCTACGCGACCACAGCCCGCGCCCTACTCGGC
 AGTGCCCTACAAGTTCTTCCAGAGCCATCCGGCCTGCACGAGAAGCGCAAGCAGCGGG
 CATCCGACACCACGTTACCAGCGCGCAGCTCAAGGAGCTGGAGCGGTTTTCGTGCAGAC
 CCACTACCCGACATTTACACGCGTGAGGAGCTGGCGCTCAAGATCGACCTACTGAGGC
 TCGCGTGCAGGTCTGGTTCCAGAACCGCCGGCCAAAGTTCCGANACAGGAGCGCGGGC
 CAGCGCAAGGGCGGGCGGGCGGGCGGGCGCCAAAAAGGGCGAGGCGCGCTGCTCTCC
 GAGGACGACGATTCCAAGGAGTCCACGTGCAGCCACGCCCAGTACGACCGCCTCGCTG
 CGCCCGCGCCTGCGCCCGGCTGGCCAGCCCGCGCTGAGCCCAAGCCGCTGCCCCGTC
 GCACTGGGCTCCGGGCGGGACCTGNGCCCGGGCCACAGCCGCTCAGGGCGCACTGTGG
 CCCGTGTGGCGGGCGGTGGGGCGGGCGCCCTTGCAGCGGACCGCCN

Restriction Sites: Please inquire
ACCN: NM_005169

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:	<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_005169.2 , NP_005160.2
RefSeq Size:	1700 bp
RefSeq ORF:	855 bp
Locus ID:	401
UniProt ID:	O14813
Cytogenetics:	11q13.4
Protein Families:	Transcription Factors
Gene Summary:	The protein encoded by this gene contains a paired-like homeodomain most similar to that of the <i>Drosophila aristaless</i> gene product. The encoded protein plays a central role in development of the autonomic nervous system. It regulates the expression of tyrosine hydroxylase and dopamine beta-hydroxylase, two catecholaminergic biosynthetic enzymes essential for the differentiation and maintenance of the noradrenergic neurotransmitter phenotype. The encoded protein has also been shown to regulate transcription of the alpha3 nicotinic acetylcholine receptor gene. Mutations in this gene have been associated with autosomal recessive congenital fibrosis of the extraocular muscles. [provided by RefSeq, Jul 2008]