

## Product datasheet for **RR203444**

### Phox2a (NM\_053869) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Phox2a (NM_053869) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Phox2a
Synonyms:	Arix
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR203444 representing NM_053869 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACTACTCCTACCTCAATTCGTACGATTCGTGCGTGGCGGCCATGGAGGCGTCCGCCTACGGTGACT  
TCGGCGCCTGCAGCCAGCCTGGAGGCTTCCAATACAGTCCCCTGCGGCCTGCCTTTCCCGCCGGGGCC  
ACCGTGCCCGCGCTCGGCTCCTCAACTGTGCGCTTGGCGCCCTACGCGACCACCAACCCGCACCTAC  
TCGGCAGTCCCTACAAGTTCCTCCCGAGCCGTCCGGCCTGCATGAGAAGCGCAAGCAGCGGCGCATCC  
GCACCAGTTCACGAGTCTCAGCTCAAGGAGTTGGAGCGGTCTCGCCGAGACCCACTACCCGGACAT  
TTACACTCGTGAGGAAGTGGCGCTCAAGATCGACCTCACTGAGGCTCGCGTGCAGGTCTGGTTCCAGAAC  
CGCCGGGCTAAGTTCGCAAAACAGGAGCGCGGCCACGGCCAAAGGCGCGGCGGGAGCGACGGGCGCCA  
AAAAGGGCGAGGCGGCTTCTCGTTCGGAGGACGACGACTCCAAGGAGTCCACGTGCAGCCACACGCCGA  
CAGCACCGCTCGCTGCCGCCCGCCGCCGCCAGCCAGCCTGGCCAGCCCGCTCCTGAGCCCCAGCCCT  
CTGCCCGCCGCTGGGCTCCGGGCCGGGCCAGCCACTCAAAGGCGGTTGTGGCAGGGGTGGCGG  
GCGGTGGGGTGGCGGGCCCGCACGGGCGCAGCAGAGCTGCTTAAGGCTGGCAGCCGGCGGAACCCGG  
ACCAGTCCCTTCTCTGGAGTTCGTCTCCTTTCACCGGAAGCCCGTCCCGCCTGAAGACAAACCTC  
TTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >RR203444 representing NM\_053869  
 Red=Cloning site Green=Tags(s)

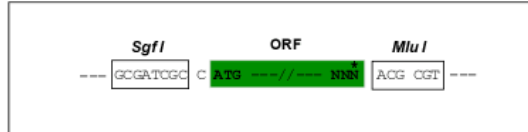
MDYSYLNYSYDSCVAAMEASAYGDFGACSQPGGFQYSPLRPAFPAAGPPCPALGSSNCALGALRDHQAPY  
 SAVPYKFFPEPSGLHEKRKQRRIRTTFTSAQLKELERVFAETHYPDIYTREELALKIDL TEARVQVWFQN  
 RRAKFRKQERAATAKGAAGATGAKKGEARCSSEDDDSKESTCSHTPDSTASLPPPPPAPSLASPLLSPPS  
 LPAALGSGPGPQPPLK GALWAGVAGGGGGPGTGAAELLKAWQPAEPGGPFGVLSSFHRKPGPALKTNL  
 F

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_053869

**ORF Size:** 843 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:**

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\\_053869.1](#), [NP\\_446321.1](#)

**RefSeq Size:** 1608 bp

**RefSeq ORF:** 846 bp

**Locus ID:** 116648

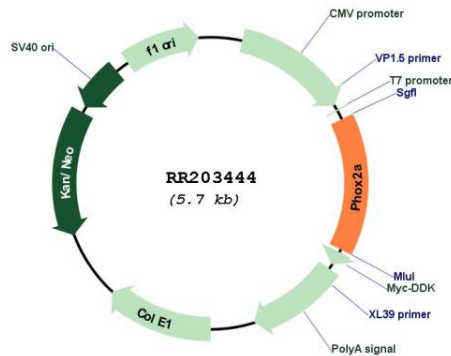
**UniProt ID:** [Q62782](#)

**Cytogenetics:** 1q32

**MW:** 29.5 kDa

**Gene Summary:** regulates transcription of the dopamine beta-hydroxylase and tyrosine hydroxylase genes, may play a role in neurotransmitter metabolism [RGD, Feb 2006]

**Product images:**



Circular map for RR203444