

Product datasheet for **MG226293**

Phox2a (NM_008887) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Phox2a (NM_008887) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Phox2a
Synonyms: Arix; Phox2; Pmx2; Pmx2a; Px2a
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG226293 representing NM_008887
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACTACTCCTACCTCAATTCGTACGATTCGTGCGTGGCGGCCATGGAGGCGTCCGCCTACGGTGACT
TCGGCGCCTGCAGCCAGCCTGGAGGCTTCCAATACAGTCCCCTGCGGCCCTGCCTTCCCCGCCGCTGGGCC
ACCTTGCCCCGCGCTCGGCTCCTCAACTGTGCGCTTGGCGCCCTACGCGACCACCAGCCCCGACCCTAC
TCGGCAGTTCCTACAAGTTCCTCCGGAGCCGTCCGGCCTGCATGAGAAGCGCAAGCAGCGGCCATCC
GCACAACGTTACGAGTGCTCAGCTCAAGGAGTTGGAGCGGTCTCGCCGAGACCCACTACCCCGACAT
TTACACTCGCGAGGAACGGCGCTCAAGATCGACCTCACTGAGGCTCGCGTGCAGGTCTGGTTCCAGAAC
CGCCGGGCCAAGTTCGCAAAACAGGAGCGCGGCCAGCGCCAAAGGCGCGGCGGGAGCGACGGGGCCCA
AAAAGGGCGAGGCGCGTTGCTCGTGGAGGACGACGACTCCAAGGAGTCCACGTGCAGCCCCACGCCCGA
CAGCACCGCTCGCTGCCGCCGCCCTGCACCCAGCCTGGCCAGCCCGCTGAGCCCCAGCCCTCTG
CCCGCCGCGTGGGCTCCGGGCCCGGCCAGCCGCTCAAGGGAGCGTTGTGGCAGGGGTGGCGGGCG
GTGGAGGTGGCGCCCCGGCACGGGCGCAGCGGAGCTGCTTAAGGCTGGCAGCCGGCGGAACCCGGGCC
AGGTCCCTTCTGGAGTTCGTCTCTTTACCGGAAGCCCGGCCCGCCCTGAAGACAAACCTCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >MG226293 representing NM_008887
 Red=Cloning site Green=Tags(s)

MDYSYLNYSYDSCVAAMEASAYGDFGACSQPGGFQYSPLRPAFPAAGPPCPALGSSNCALGALRDHQAPY
 SAVPYKFFPEPSGLHEKRKQRRIRTTFTSAQLKELERVFAETHYPDIYTREELALKIDL TEARVQVWFQN
 RRAKFRKQERAASAKGAAGATGAKKGEARCSSEDDDSKESTCSPTPDSTASLPPPPAPSLASPRLSPSPL
 PAALGSGPGPQPLK GALWAGVAGGGGGPGTGAAELLKAWQPAEPGPGPFSVLS SFHRKPGPALKTNLF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008887

ORF Size: 840 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_008887.2](#), [NP_032913.1](#)

RefSeq Size: 1609 bp

RefSeq ORF: 843 bp

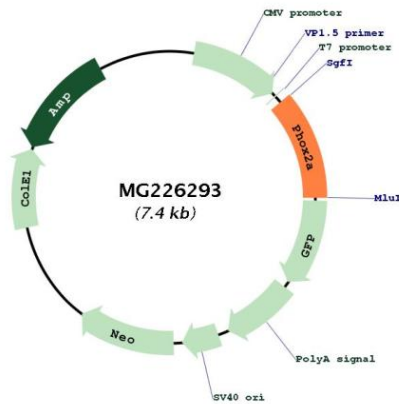
Locus ID: 11859

UniProt ID: [Q62066](#)

Cytogenetics: 7 54.66 cM

Gene Summary: May be involved in regulating the specificity of expression of the catecholamine biosynthetic genes. Acts as a transcription activator/factor. Could maintain the noradrenergic phenotype (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG226293