

Product datasheet for **MR220988**

Aox3 (NM_023617) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aox3 (NM_023617) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aox3
Synonyms:	1200011D03Rik; AI326299; Aoh1; Aoh2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR220988 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**C

ATGTCCTTCTAAGGAGTCAGATGAGCTTATTTCTTTGTGAATGGAAAAAGGTCACCGAGAGGAATG
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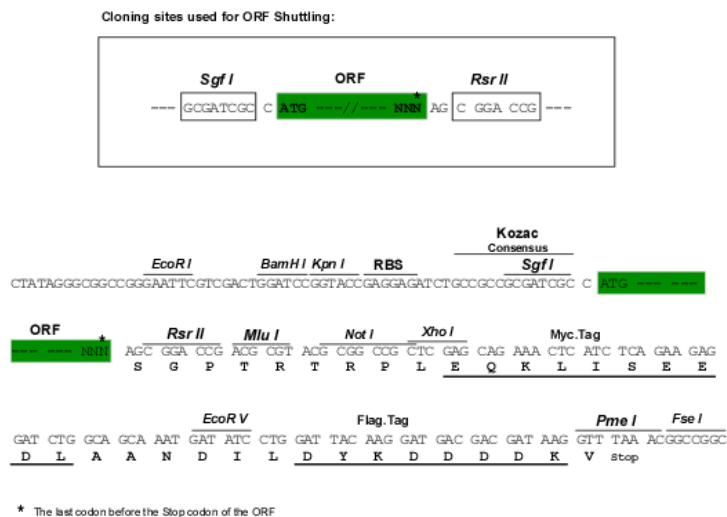
Protein Sequence: >MR220988 protein sequence
Red=Cloning site Green=Tags(s)

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EQIMETLGGNLCRTGYRPIVESAKSFCPSSTCCQMNGEGKCCLDEEKNEPERKNSVCTKLYEKKEFQPL
DPTQELIFPPELMRMAEESQNTVLTRGERTTWIAPGTLNDLLELKMHPAPLVIGNTYLGHMKFQDV
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DDAGKMICEEVSLMAAPGGMEEYRKTLAISFLMFYLDVLKQLKTRDPHRYPDISQKLLHILEDPLTM
PYGMQSFQDVFQQLQDPIGRPMHQSGIKHATGEAVFCDDMSVLPGLFLAVVTSSKSHAKIISLDAS
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SQDAAFTQEMVARTLGIPKNRINCHVKRVGGAFGGKASKPGLLASVAAVAQKTGRPIRIFILERRDMLI
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PSNTAFRGFGFPQGAFTETCMSAVAACRLPPEKVRELNMYRTIDRTIHNQEFDPNTLLQCWEACVENS
SYNRRKKAVDEFNQRFWKKRGIAIIPMKFSVGFPKTFYYQAAALVQIYTDGSLVLAHGGVELGGQINTK
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INPAVDIGQIEGAFVQGLGLYTLLELKYSPEGVLYTRGPHQYKIASVTDIPEEFHVSLLTPTPNPKAIYS
SKGLGEAGTFLGCSVFFAIAAAVAAAREERGLSPIWAINSPATAEVIRMACEQFTNLVPQTDKCKCPW
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Restriction Sites: SgfI-RsrII

Cloning Scheme:

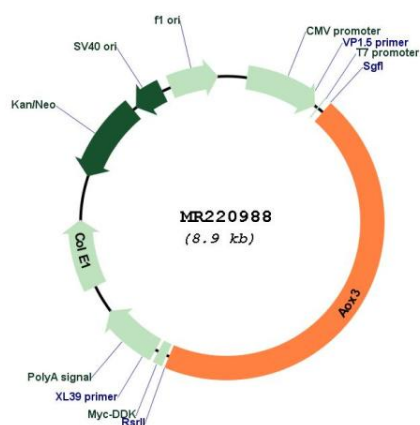


ACCN: NM_023617

ORF Size: 4005 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_023617.2 , NP_076106.2
RefSeq Size:	4360 bp
RefSeq ORF:	4008 bp
Locus ID:	71724
UniProt ID:	G3X982
Cytogenetics:	1 28.96 cM
MW:	146.9 kDa
Gene Summary:	Oxidase with broad substrate specificity, oxidizing aromatic azaheterocycles, such as N1-methylnicotinamide and phthalazine, as well as aldehydes, such as benzaldehyde, retinal and pyridoxal. Plays a key role in the metabolism of xenobiotics and drugs containing aromatic azaheterocyclic substituents. Is probably involved in the regulation of reactive oxygen species homeostasis. May be a prominent source of superoxide generation via the one-electron reduction of molecular oxygen. Also may catalyze nitric oxide (NO) production via the reduction of nitrite to NO with NADH or aldehyde as electron donor.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR220988