

Product datasheet for **MR215477**

Aox4 (NM_023631) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aox4 (NM_023631) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aox4
Synonyms:	2310003G12Rik; Aoh2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR215477 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTTCCTCTCCGAGTCTGACGAGCTGATTTTTTTTGTGAATGGAAAAAGGTCATAGAGAAGAACC
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ATGCTGAGTGACGCATGCCAGCTGGTCCTGCAGGAGATCCGCATCCCACCAGATGCTGAGGGAGGCATGG
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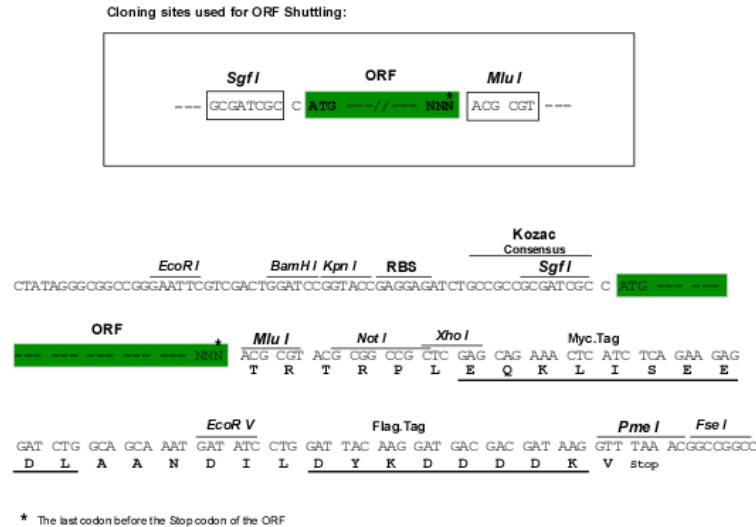
Protein Sequence: >MR215477 protein sequence
 Red=Cloning site Green=Tags(s)

MPSVSEDELIFVNGKKVIEKNPDPEKNLLFYTRKVLNLTGTKYSCGTGGCGACTVMVSRYPKTRKIH
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 VSEALACPGVVDVITAEDVPGENDHNGEILYAQSEVICVGQIICTVAADTYIHAKAAKRVKIAYDDIEP
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 LGTQFPTHVQEFVSAALNVPRSRIACHMKRAGGAFGGKVTKPALLGAVCAVAANKTGRPIRIFILERSDDM
 LITAGRHPLLGKYKIGFMNNGEIRAADVEYTTNGGCTPDESELVIEFVVLKSENTYHINPFRRCRGRACKT
 NLPNTAFRGFGFPQATVVVEAYIAAVASKCNLLPEEVREINMYKTSKTAYKQTFNPEPLRRCWKECLE
 KSSFFARKKAAEEFNNGNYWKKRGLAVVPMKFSVAVPIAFYNQAAALVHIFLDGSVLLTHGGCELQGLH
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 EEWIKMAFEESISLSATGYFKGYQTNMDWKKEEGDPYPYVYGAACSEVEVDCLTGAKLLRTDIFVDA
 FSINPALDIGQVEGAFIQGMGFYTTEELKYSKGVLYSRGPEDYKIPTITEIPEEFYVTLVHSRNPAAIY
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Restriction Sites: SgfI-MluI

Cloning Scheme:

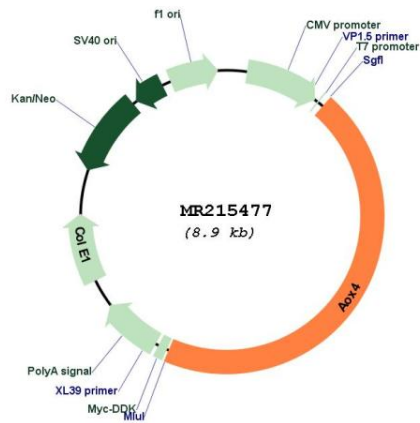


ACCN: NM_023631

ORF Size: 4008 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_023631.2 , NP_076120.2
RefSeq Size:	4976 bp
RefSeq ORF:	4011 bp
Locus ID:	71872
UniProt ID:	Q3TYQ9
Cytogenetics:	1 28.97 cM
MW:	148.3 kDa
Gene Summary:	Aldehyde oxidase able to catalyze the oxidation of retinaldehyde into retinoate. Is responsible for the major all-trans-retinaldehyde-metabolizing activity in the Harderian gland, and contributes a significant amount of the same activity in the skin. Is devoid of pyridoxal-oxidizing activity, in contrast to the other aldehyde oxidases. Acts as a negative modulator of the epidermal trophism. May be able to oxidize a wide variety of aldehydes into their corresponding carboxylates and to hydroxylate azaheterocycles.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR215477