

## Product datasheet for **RR213529**

### Miox (NM\_145771) Rat Tagged ORF Clone

#### Product data:

|                          |                                                                             |
|--------------------------|-----------------------------------------------------------------------------|
| Product Type:            | Expression Plasmids                                                         |
| Product Name:            | Miox (NM_145771) Rat Tagged ORF Clone                                       |
| Tag:                     | Myc-DDK                                                                     |
| Symbol:                  | Miox                                                                        |
| Synonyms:                | Aldrl6; RSOR                                                                |
| Vector:                  | pCMV6-Entry (PS100001)                                                      |
| E. coli Selection:       | Kanamycin (25 ug/mL)                                                        |
| Cell Selection:          | Neomycin                                                                    |
| ORF Nucleotide Sequence: | >RR213529 representing NM_145771<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGC**

ATGAAGGTCGACTTGGGCCAGACCCTTCCTGGTCTATCGACCTGATGTGGACCCAGAGATGGCCAAA  
GCAAGGGCAGCTCCGAACTACACTTCAGGCCGCTGCTGGATCGCGTCTTACCACCTATAAGCTGAT  
GCACACTCACCAGACCGTGGACTTCGTCATGCGGAAGCGCATCCAGTTTGAAGCTTCTCTTACAAGAAG  
ATGACGGTCATGGAGGCTGTAGATATGCTGGATGATCTGGTGGACGAATCTGACCCAGAGTAGACTTCC  
CCAACCTCTTTCACGCGTTCCAGACCGGGAGGGCATCCGAAAAGCCACCCAGACAAGGACTGGTTCCA  
TCTGGTTGGACTTTTGCATGATCTGGGGAAAATCCTGGCCCTGTGGGGGAACCTCAGTGGGCTGTTGTT  
GGAGACACTTTCCCGTGGGCTGCCGTCCCCAGGCCTCCGTGGTGTCTGCGACTCTACTTTCCAGGACA  
ATCCTGACCTCCAGACCCTCGATACAGCACAGAATTGGCATGTACCAGCCCCACTGTGGACTTGAGAA  
TGTCTTATGTCTGGGGCCATGATGAGTACCTATACCAGATGATGAAGTTCAACAAGTTCTCCCTACCT  
TCAGAGGCTTCTACATGGTCCGATTCCATTCTTCTATCCGTGGCACACCGGCGGTGACTACCGGCAGC  
TGTGCAGTCAGCAAGACCTGGATATGCTGCCTTGGGTGCAAGAGTTCAACAAGTTGACCTCTACACCAA  
GTGCCCTGACCTACCGAAGTGAAGAGCCTGCGGCCCTACTATCAGGGGCTGATTGACAAGTACTGCCCG  
GGCATCCTGAGCTGG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA



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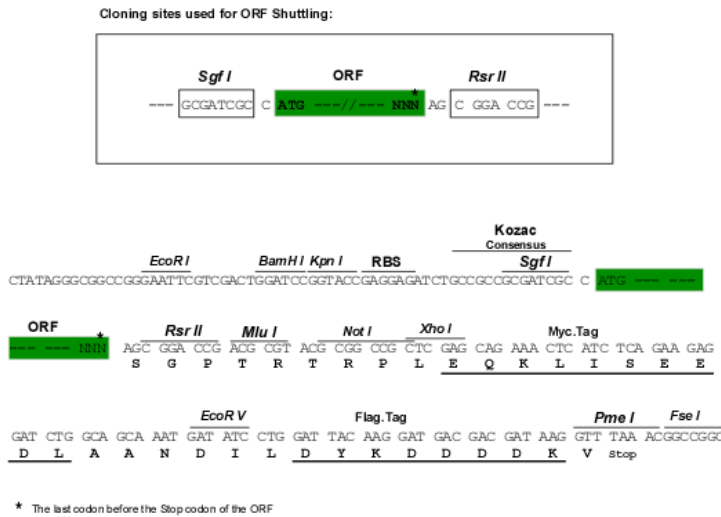
**Protein Sequence:** >RR213529 representing NM\_145771  
 Red=Cloning site Green=Tags(s)

MKVDLGPDP SLVYRPDVDP EAKSKGSFRNYTSG PLLDRVFTTYKLMHTHQTVDFV MRKRIQFGSFSYKK  
 MTVMEAVDMLDDL VDESDPDVDFPNSFHAFQTAEGIRKAHPDKDFHLVGLLHDLGKILALWGEPQWAVV  
 GDTFPVGC RPQASVVFCDSTFQDNPDLDQPRYSTELGMYQPHCGLE NVLMSWGHDEYLQMMKFNFSLP  
 SEAFYMVRFHSFY PWH TGGDYRQLCSQQDL DMLPWWQEFNKFDLYTKCPDLPEVKS LRPYYQGLIDKYCP  
 GILSW

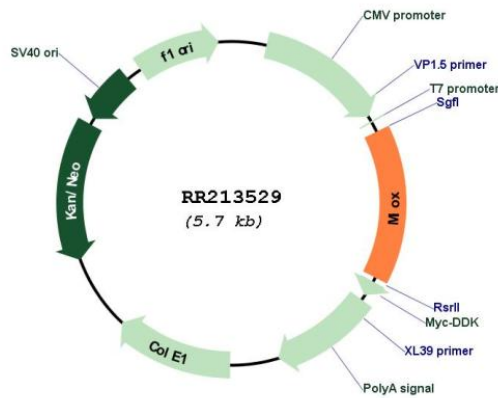
SGP TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_145771

**ORF Size:** 855 bp

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>                                                                |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Components:</b>            | 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).                                                                                                                                                                                                                                                                                                                              |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol> |
| <b>RefSeq:</b>                | <a href="#">NM_145771.2</a> , <a href="#">NP_665714.2</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>RefSeq Size:</b>           | 1039 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>RefSeq ORF:</b>            | 858 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Locus ID:</b>              | 252899                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>UniProt ID:</b>            | <a href="#">Q9QXN4</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Cytogenetics:</b>          | 7q34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>MW:</b>                    | 33.2 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Gene Summary:</b>          | may play a role in diabetic renal complications [RGD, Feb 2006]                                                                                                                                                                                                                                                                                                                                                                                                                                                   |