

## Product datasheet for **MR210462**

### **Oxr1 (BC089183) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Oxr1 (BC089183) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Oxr1
Synonyms:	C7, C7B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>MR210462 representing BC089183  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCTTTTCAGAAGCCTAAAGGAACCATTGAATATACTGTTGAATCAAGGGATTCTTTGAATAGCATAG  
 CCCTGAAATTTGATACCCACCCAATGAACTTGTTTCAGTTAAATAAGTTATTCTCTCGAGCAGTCGTGAC  
 TGGACAGGTTTTATACGTTCTGATCCTGAATATGTCTCTAGTGTGAGAGTTCCCCATCCCTCAGCCCT  
 GTAAGCCCTCTGTGCGCAACGTATCCGAGGCTGAATTTGATAAAACCACGACTCCAGATGTAGCCCATC  
 CAAAAGAAGCACCCTCGCATCGACTGTGAGCGGTATTCGGCCTGCGAGAGTTGTGTCTTCAACTTCTGA  
 AGAAGAAGAAGCCTTTACTGAGAAATTTCTAAAATTAATTGCAATATATCACCATTGGCAAGGGCACA  
 GTCAGTGGCGTCTGCTAGTCACACCAATAACATAATGTTTGATCCACACAAGACAGACCCCTTGGTTC  
 AAGAGAACGGTTGTGAGGAATACGGCATCATGTGTCCGATGGAAGAGGTGATGTCAGCTGCCATGTACAA  
 AGAGATTTTGGATAGCAAAATAAAGGAATCACTGCCCATAGAACTAGATCAGTTGTGAGGAGGGGTCC  
 TGCCATTCAAAGAAAGCGACAGGAGTCCGCTGCTGAGGACGACAGCCGAGAGCGCGTGACCAGGGTAACG  
 ACAGTGCCAGCACTGCTCCCAGGAGCACCGAGGAGTCTCTCTCGGAAGACGCTTTCACAGAGTCAGAACT  
 CTCTCCTATCCGCGAGGAGCTGCTCTCCTCGGAGCCGAGACAGGAGAAGTCATCTGATGCCTCGTCAGAA  
 TCTGTGCAGACTGTCAGTCAGATGGAAGTCCAGTCCCTTGACAGCCACGTGAGAGGCTGCTAACGTTCTG  
 ACCGCACTAGCTTAACCCTGGGGCTCTATCTCATGAACTGGCTTAAGTGGTCTGGAAACAGCCACTAA  
 AGGAGGAGATAAAGCTACAGAAAGCCTTCAAGAAGTCTCAGGCCAAAGGAACAAAGCCAGAAATAAAA  
 GGTCAGGATAACCAAGGATTCTTCCACCAGGAAAGTTTACTGCAGCAAGAGGCAGGTGAAGACAGTGTAT  
 CTCTGGAGAAACAGTAGAACTGAAAGAAAACCAGCTGTTCTTAAGGATCAACAAGGGCAGGAGCTAAA  
 ACGGGACTCAGAGACAGAAGTAGAGGAGCTGCGCAAACTCTGAAAACACTCTATGCAGCAAGCCAAG  
 CAGCAAAGGGACACGATTCAACAGGTGTACAGAGAGAAAGTAAACACAGCAGTGCAGCTGCAGACGCAC  
 ATGGAGAAGGCTCCTCGCTGTTAAAGGAAAAGCGAAGGCATCGATTACATAAGTTCCTATGTCTCAGAGT  
 CGGAAAACCAATGAGGAAGACCTTTGTATCGCAAGCAAGTGTACGATGCAACAGTATGCACAAAGAGAT  
 AAAAAACACGAATATTGGTTTGCAGTGCCACAAGAAAGGACAGACCCTTGTATGCCTTCTTCATTCACT  
 GGAGTCCAGAAATCTATGCAGAAGATTCTGGTGAATACACCAGAGAGCCTGGATTTCATAGTCAAAAA  
 GATGGACGAGTCTGAAGCGAATGAAGCCCCTGCTGGTGAAGCAGCAGCCAGGGAGTGGGAGATTACTACA  
 AGGGAAGACATCAACTCAAAGCAGGTTGCTCCAGCAAAGCAGACCTGGAGCCTGAATCTTCCGACCAA  
 ACCTAAGCGACCCAGTGAACCTTACTGCCTGATCAGATTGAAAAGCTTACTAAGCACCTTCCACCAAG  
 AACCATTTGGCTATCCATGGACGCTTGTGTACGGTACTGGGAAGCATGGTACAAGTTTGAAGACCCCTTAT  
 CGAACAATGACAGGTTTACAGACTCCGGTGTGATGGTGAATAAAGACAGTGTGGACAGGTTTTTGGTG  
 CATTAGCATCAGAGCCATTTAAAGTAAGTATGGCTTTTACGGTACTGGAGAAACATTTGTTTTTACATT  
 CTGCCAGAAATTTGAGGCTTTAAGTGGACAGGAGATAATATGTTTTTTTCAAAGGAGACATGGATTCA  
 TTAGCATTTGGTGGTGGAGGAGGGGAATTTGCTCTTTGGCTTGTGGAGATCTCTACCATGGAAGAAGCC  
 ATTCCTGTAACCGTTTGGGAATCATACACTTTCTAAGAAGGAAGATTTCTTTATCCAAGACATTGAAAT  
 CTGGGCTTTTCAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210462 representing BC089183  
 Red=Cloning site Green=Tags(s)

MSFQKPKGTIEYTVESRDSLNSIALKFDTTPNELVQLNKLFSRAVVTGQVLYVPDPEYVSSVESPSPSP  
 VSPLSPTSSEAEFDKTTTPDVAHPKEAPPASTVSGIRPARVVSSTSEEEAFTEKFLKINCKYITIGKGT  
 VSGVLLVTPNNIMFDPHKTDPLVQENGCEEYGMCPMEEVMSAAMYKEILD SKIKESLPIELDQLSGRGS  
 CHSKKATGVAEDADPRARDQGNDASASTAPRSTEESEDAFTESELSP IRELLSSEPRQEKSSDASSE  
 SVQTVSQMEVQSLTATSEAANVPDRTSSNPGALSHETGLSGLETATKGGDKATESLQEVSGPKESPEIK  
 GQDNQDSSHQESLLQQEAGEDSVSSGETVELKEKPAVLKDQQGQELKRDSETEVEELRKLWKTHSMQQA  
 KQRDTIQVVSQRESKHSSAAADAHGEGSSLLKEKRRHRLHKFLCLRVGKPMRKTFFVSQASATMQQYAQRD  
 KKHEYWFVAVPQERTDHL YAFFIQWSPEIYAEDSGEYTRPGFIVVKMDESEANEAPAGEAAAREWEITT  
 REDINSKQVAPAKADLEPESFRPNLSDPSELLLPDQIEKLT KHLPPRTIGYPWTLVYGTGKHGTSKLTLY  
 RTMTGLDTPVLMVIKSDGQVFGALASEPFKVSDFYGTGETFVFTFCPEFEVFKWTGDNMFFIKGDMS  
 LAFGGGGGFALWLDGDL YHGRSHSCKTFGNHTLSKKEDFFIQDIEIWAFA

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

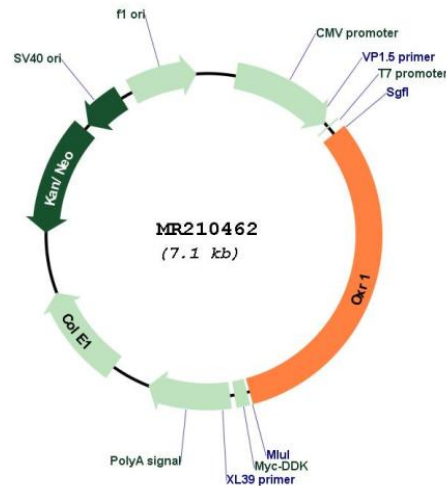
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



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

**Plasmid Map:**


**ACCN:** BC089183

**ORF Size:** 2253 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:** [BC089183.1](#)

**RefSeq Size:** 4259 bp

**RefSeq ORF:** 2255 bp

**Locus ID:** 170719

**Cytogenetics:** 15 B3.1

**MW:** 156.1 kDa

**Gene Summary:** May be involved in protection from oxidative damage.[UniProtKB/Swiss-Prot Function]