

## Product datasheet for **MG217379**

### **Oxr1 (NM\_001130163) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Oxr1 (NM_001130163) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Oxr1
Synonyms:	2210416C20Rik; C7; C7B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG217379 representing NM\_001130163  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCCTTTTCAGAAGCCTAAAGGAACCATTGAATATACTGTTGAATCAAGGGATTCTTTGAATAGCATAG  
 CCCTGAAATTTGATACCCACCCAATGAACTTGTTTCAGTTAAATAAGTTATTCTCTCGAGCAGTCGTGAC  
 TGGACAGGTTTTATACGTTCTGATCCTGAATATGTCTCTAGTGTGAGAGTTCCCATCCCTCAGCCCT  
 GTAAGCCCTCTGTCGCCAACGTATCCGAGGCTGAATTTGATAAAACCACGACTCCAGATGTAGCCCATC  
 CAAAAGAAGCACCCTCGGCATCGACTGTGAGCGGTATTCGGCCTGCGAGAGTTGTGTCTTCAACTTCTGA  
 AGAAGAAGAAGCCTTTACTGAGAAATTTCTAAAATTAATTGCAATATATCACCATTGGCAAGGGCACA  
 GTCAGTGGCGTCTGCTAGTCACACCAATAACATAATGTTTGATCCACACAAGACAGCCCTTGGTTC  
 AAGAGAACGGTTGTGAGGAATACGGCATCATGTGTCCGATGGAAGAGGTGATGTCAGCTGCCATGTACAA  
 AGAGATTTTGGATAGCAAAATAAAGGAATCACTGCCCATAGAACTAGATCAGTTGTCAGGAAGGGGTCC  
 TGCCATTCAAAGAAAGCGACAGGAGTCCGCTGCTGAGGACGACAGCCGAGAGCGCGTACCAGGGTAAACG  
 ACAGTGCCAGCACTGCTCCCAGGAGCACCGAGGAGTCTCTCTCGAAGACGCTTTCACAGAGTCAGAACT  
 CTCTCCTATCCGCGAGGAGCTGCTCTCCTCGGAGCCGAGACAGGAGAAGTCATCTGATGCCTCGTCAGAA  
 TCTGTGCAGACTGTCAGTCAGATGGAAGTCCAGTCCCTTGACAGCCACGTGAGGCTGCTAACGTTCTCTG  
 ACCGCACTAGCTTAACCCTGGGGCTCTATCTCATGAACTGGCTTAAGTGGTCTGGAAACAGCCACTAA  
 AGGAGGAGATAAAGCTACAGAAAGCCTTCAAGAAGTCTCAGGCCAAAGGAACAAAGCCAGAAATAAAA  
 GGTCAGGATAACCAGGATTTCTCCACCAGGAAAGTTTACTGCAGCAAGAGGCAGGTGAAGACAGTGTAT  
 CTCTGGAGAAACAGTAGAACTGAAAGAAAACCAGCTGTTCTTAAGGATCAACAAGGGCAGGAGCTAAA  
 ACGGGACTCAGAGACAGAAGTAGAGGAGCTGCGCAAACTCTGAAAACACTCTATGCAGCAAGCCAAG  
 CAGCAAAGGGACACGATTACAGCAGGTGTACAGAGAGAAAGTAAACACAGCAGTGCAGCTGCAGACGCAC  
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 GGAGTCCAGAAATCTATGCAGAAGATTCTGGTGAATACACCAGAGAGCCTGGATTATAGTACTCAAAAA  
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 AGGGAAGACATCAACTCAAAGCAGGTTGCTCCAGCAAAAGCAGACCTGGAGCCTGAATCTTCCGACCAA  
 ACCTAAGCGACCCAGTGAACCTTACTGCCTGATCAGATTGAAAAGCTTACTAAGCACCTTCCACCAAG  
 AACATTGGCTATCCATGGACGCTTGTGTACGGTACTGGGAAGCATGGTACAAGTTTGAAGACCCCTTTAT  
 CGAACAATGACAGGTTTACAGACTCCGGTGTGATGGTGAATAAAGACAGTGTGGACAGGTTTTTGGTG  
 CATTAGCATCAGAGCCATTTAAAGTAAGTATGGCTTTTACGGTACTGGGAAACATTTGTTTTTACATT  
 CTGCCAGAAATTTGAGGCTTTAAGTGGACAGGAGATAATATGTTTTTTTCAAAGGAGACATGGGTTCA  
 TTAGCATTTGGTGGTGGAGGAGGGGAATTTGCTCTTTGGCTTGTGGAGATCTCTACCATGGAAGAAGCC  
 ATTCCTGTAACCGTTTGGGAATCATACACTTTCTAAGAAGGAAGATTTCTTTATCCAAGACATTGAAAT  
 CTGGGCTTTTAAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG217379 representing NM\_001130163  
 Red=Cloning site Green=Tags(s)

```
MSFQKPKGTTIEYTVESRDSLNSIALKFDTTPNELVQLNKLFSRAVVTGQVLYVPDPEYVSSVESSPSLSP
VSPLSPTSSEAEFDKTTTPDVAHPKEAPPASTVSGIRPARVVSSTSEEEAFTEKFLKINCKYITIGKGT
VSGVLLVTPNNIMFDPHKTDPLVQENGCEEYGMCPMEEVMSAAMYKEILDSKIKESLPIELDQLSGRGS
CHSKKATGVAEADADPRARDQGNDSASTAPRSTEEESLSEDAFTESELSPIRELLSSEPRQEKSSDASSE
SVQTVSQMEVQSLTATSEAAANVPDRTSSNPGALSHETGLSGLETATKGGDKATESLQEVSGPKESPEIK
GQDNQDSSHQESLLQQEAGEDSVSSGETVELKEKPAVLKDQQGQELKRDSETEVEELRKLWKTHSMQQAQ
QQRDTIQVVSQRESKHSSAAADAHGEGSSLLKEKRRHRLHKFLCLRVGKPMRKTFFVSQASATMQQYAQRD
KKHEYWFVAVPQERTDHL YAFFIQWSPEIYAEDSGEYTRPGFIVVKMDESEANEAPAGEAAAREWEITT
REDINSKQVAPAKADLEPESFRPNLSDPSELLLPDQIEKLTKHLPPRTIGYPWTLVYGTGKHGTSKLTLY
RTMTGLDTPVLMVIKSDGQVFGALASEPFKVDGFGYGTGETFVFTFCPEFEVFKWTGDNMFFIKGDMGS
LAFGGGGGEFALWLDGDLYHGRSHSCKTFGNHTLSKKEDFFIQDIEIWAFF
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001130163

**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:** [NM\\_001130163.1](#), [NP\\_001123635.1](#)

**RefSeq Size:** 4176 bp

**RefSeq ORF:** 2256 bp

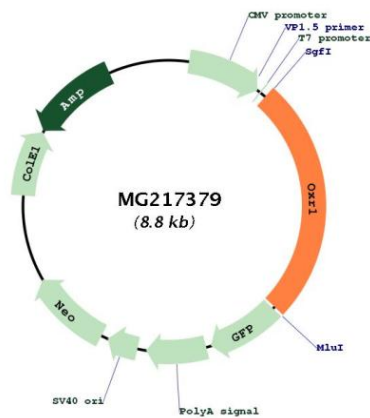
**Locus ID:** 170719

**UniProt ID:** [Q4KMM3](#)

**Cytogenetics:** 15 B3.1

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

**Product images:**



Circular map for MG217379