

Product datasheet for **MR218688**

Oxr1 (NM_001130166) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Oxr1 (NM_001130166) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Oxr1
Synonyms:	2210416C20Rik; C7; C7B
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR218688 representing NM_001130166
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCTGTATCTAATCTATCATGGTTGAAGAAAAAGTCCCAGTCAGTGGATATTACTGCTCCAGGGTTCA
 ACCCTTTAGGTGGTGCAGGGAAGCAAGCACCACAAGCCAGCAAGCCCCCGCACCCAAGACCCCCATCAT
 CGAAGAAGAACAGAACAACTCAGCAAACACCCAGAAGCATCCTTCCAGAAAAAGTGAAGTGAAGAGGTTT
 TATACCATTGACACTGGCCAAAAGAAGACCTTAGACAAGAAAGATGGGAGAAGGATGTCTTTTCAGAAGC
 CTAAGGAACCATGAATATACTGTTGAATCAAGGGATTCTTTGAATAGCATAGCCCTGAAATTTGATAC
 CACACCCAATGAACCTGTTCAAGTAAATAAGTTATTCTCTCGAGCAGTCGTGACTGGACAGGTTTATAC
 GTTCTGTATCCTGAATATGTCTCTAGTGTGAGAGTCCCATCCCTCAGCCCTGAAGCCCTGTGCGC
 CAACGTATCCGAGGCTGAATTTGATAAAACCAGACTCCAGATGTAGCCATCCAAAAGAAGCACCCCC
 GGCATCGACTGTGAGCGTATTCGCGCTCGGAGAGTTGTGTCTCAACTTCTGAAGAAGAAGAAGCCTTT
 ACTGAGAAATTTCTTAAATTAATTGCAATATATCACCATTGGCAAGGGCACAGTCAGTGGCGTCTGTC
 TAGTCACACCAAATAACATAATGTTTATGCCACAAGACAGACCCCTTGGTTCAAGAGAACGGTTGTGA
 GGAATACGGCATCATGTGTCCGATGGAAGAGGTGATGTCAGCTGCCATGTACAAAGAGATTTTGGATAGC
 AAAATAAGGAATCACTGCCATAGAACTAGATCAGTTGTGAGGAAGGGGTCTGCCATTCAAAGAAAAG
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 GAGTGTCTCTCTCGGAGCCGAGACAGGAGAATCATCTGATGCCTCGTCAGAATCTGTGACAGACTGTA
 GTCAGATGGAAGTCCAGTCTTGGACAGCCAGTCAGAGGCTGCTAACGTTCTGACCCGACTAGCTTAA
 CCCTGGGGCTCTATCTCATGAAACTGGCTTAAAGTGGTCTGGAAACAGCCACTAAAGGAGGAGATAAAGCT
 ACAGAAAGCCTTCAAGAAGTCTCAGGCCAAAGGAACAAAGCACAGAAAGTAAAAGTTCAGGATAACCAGG
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 TTCAGCAGGTGCACAGAGAGAAAGTAAACACAGCAGCGCAGCAGCAGACGCACATGGAGAGGGCTCCTC
 GCTGTTAAAGGAAAAGCGAAGGCATCGATTACATAAGTTCCTATGTCTCAGAGTCGGAACCAATGAGG
 AAGACCTTTGTATCGCAAGCAAGTGTACGATGCAACAGTATGCACAAAGAGATAAAAAACACGAATATT
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 AATGACAGGTTTAGACACTCCGGTGTGATGGTATTAAGACAGTGTGACAGGTTTTTGGTGCATTA
 GCATCAGAGCCATTTAAAGTAAAGTATGGCTTTTACGGTACTGGAGAAACATTTGTTTTACATTCTGCC
 CAGAATTTGAGGCTTTAAGTGGACAGGAGATAATATGTTTTTTTCAAAGGAGACATGGATTTCATTAGC
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 CTTTTGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR218688 representing NM_001130166
 Red=Cloning site Green=Tags(s)

MSVSNLSWLKKKSQSVSDITAPGFNPLGGAGKQAPQASKPPAPKTPIIIEEQNNSANTQKHPSRKSELKRF
 YTIDTGQKKTLDKKGRRMSFQPKGTIEYTVESRDSLNSIALKFDTTPNELVQLNKLFSRAVVTGQVLY
 VPDPEYVSSVESPSPSPVSPSPTSSEAEFDKTTTPDVAHPKEAPPASTVSGIRPARVVSSTSEEEAF
 TEKFLKINCKYITIGKGTVSGVLLVTPNNIMFDPHKTDPLVQENGCEEYGMCPMEEVMSAAMYKEILDS
 KIKESLPIELDQLSGRGSCHSKKATGVSADADPRARDQNDASASTAPRSTEESLSEDAFTESELSPIRE
 ELLSSEPRQEKSSDASSESVQTVSQMEVQSLTATSEANVPDRTSSNPGALSHETGLSGLETATKGGDKA
 TESLQEVSGPKEQSTEYKQDNQDSSHQESSLQQEAGEDSVSSGETVELKEKPAVLKDDQQGQELKRDSET
 EVEELRKLWKTHSMQQAQQRDTIQQVSQRESKHSSAAADAHGEGSLLKEKRRHRLHKFLCLRVGKPMR
 KTFVQSASATMQQYAQRDKKHEYWFVAVPQERTDHLAYAFFIQWSPEIYAEDSGEYTPREPGFIVVKMDESE
 ANEAPAGEAAAAREWEVVSVAEYHRRIDALNTEELRTLCRRLQITTREDINSKQVAPAKADLEPESFRPNL
 SDPSELLLPDQIEKLTKHLPPRTIGYPWTLVYGTGKHGTSKTL YRTMTGLDTPVLMVIKSDGQVFGAL
 ASEPFKVSDFYGTGETFVFTFCPEFEVFKWTGDNMFFIKGDMDSLAFGGGGGEFALWLDGDL YHGRSHS
 CKTFGNHTLSKKEDFFIQDIEIWAFA

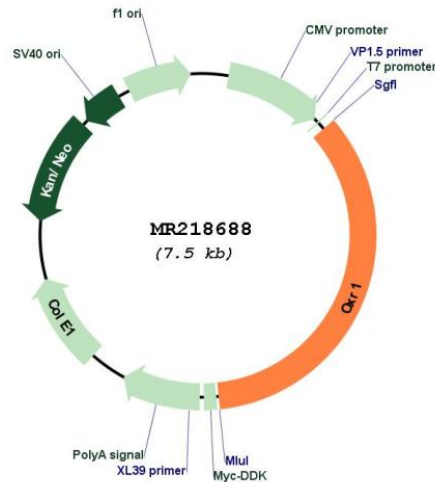
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001130166

ORF Size: 2598 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_001130166.1](#), [NP_001123638.1](#)

RefSeq Size: 4616 bp

RefSeq ORF: 2601 bp

Locus ID: 170719

UniProt ID: [Q4KMM3](#)

Cytogenetics: 15 B3.1

MW: 96.4 kDa

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