

Product datasheet for MR218643

Oxgr1 (NM_001001490) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Oxgr1 (NM_001001490) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Oxgr1
Synonyms:	Cysltr3; Gm299; Gpr80; Gpr99; P2Y15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR218643 representing NM_001001490 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATTGAGCCACTGGACAGTCCAGCCAGTGATTCCGGATTTCTGGATTACCCAAGTGCTCTGGAAACT
GCACCGACGAGCAAATCTCATTCAAGATGCAGTACCTTCCCGTCATCTATAGCATCATCTTCTCGTGGG
CTTCCCGGGGAACACAGTGGCCATCTCCATCTACATTTTCAAGATGCGGCCGTGGAGGGCAGTACAGTC
ATCATGCTGAACCTGGCCTTGACGGACTTGCTGTATCTGACCAGCCTCCCGTTCCCTCATCCACTACTATG
CCAGTGGTGAAAAGTGGATCTTTGGAGATTTTCATGTGCAAGTTCATCCGCTTCGGCTTCCACTTCAACCT
CTACAGCAGCATTCTTCTCCTCAGCTGCTTCCGTTACGTTGTGATCATTACCCGATGAGC
TGCTTTTCTATTAGAAAAGTGGTGGGAGTGGTAGCTTGTGCCGGGGTGTGGGTCATTTCTTTGGTAG
CTGTATGCCCATGACTTTCCTGATCACATCAACCACCCGGACCAATAGGTCTGCTTGCCTTGACCTCAC
CAGTTCAGATGACCTCACTACTAATCAAGTGGTACAATCTCATTTTGCAGCCACCACTTTCTGCCTGCCA
TTGGTGATAGTGACACTTTGCTACACGACAATTATCAGTACCCTGACTCACGGCCCTCGGACCCACAGCT
GCTTTAAGCAGAAGGCTCGGAGACTGACTATTCTGCTCCTCTGTTTCTATATATGTTTCTTACCCTT
CCACATCTTGAGGGTCATTCCGATCGAATCTCGCTGCTTCAATCAGCTGCTCCATCGAGAGTCACATC
CACGAAGCTTACATTGTTTCTAGACCATTAGCTGCTCTCAACACCTTTGGCAACCTGCTGTTATATGTTG
TGGTCAGCAATAACTTCCAGCAGGCACTTCTGCTCTATAGTGAGATGCAAAGCCAGTGGGGACCTTGAACA
AGGAAAAGAAAGACAGTTGCTCAAACAACCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR218643 representing NM_001001490
Red=Cloning site Green=Tags(s)

MIEPLDSPASDSDFLDYPSALGNCTDEQISFKMQYLPVIYSIIFLVGFPNGNTVAISIYIFKMRPWGSTV
 IMLNLALTDLLYLTSLPFLIHYASGENWIFGDFMCKFIRFGFHFLYSSILFLTCFSLFRYVVIHPMS
 CFSIQKTRWAVVACAGVWVIVSLVAVMPMTFLITSTRTRNSACLDTSSDDLTTIKWYNLILTATTFCLP
 LVIVTLCYTTIIISTLTHGPRTHSCFKQKARRLTILLLLVFYICFLPFHILRVIRIESRLLSISCSIESHI
 HEAYIVSRPLAALNTFGNLLLYVVVSNFQQAFCSIVRCKASGDLEQGGKDCSCSNNP

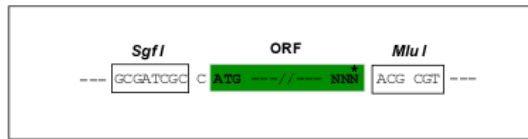
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9020_c11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001001490

ORF Size: 1011 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_001001490.3](#), [NP_001001490.1](#)

RefSeq Size: 3732 bp

RefSeq ORF: 1014 bp

Locus ID: 239283

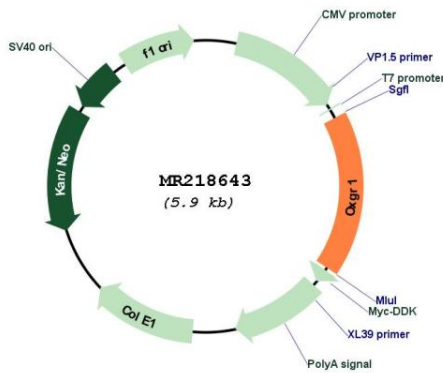
UniProt ID: [Q6IYF8](#)

Cytogenetics: 14 E4

MW: 38.7 kDa

Gene Summary: Receptor for alpha-ketoglutarate. Seems to act exclusively through a G(q)-mediated pathway. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218643