

Product datasheet for **RG221717**

OXGR1 (NM_080818) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OXGR1 (NM_080818) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OXGR1
Synonyms:	aKGR; GPR80; GPR99; P2RY15; P2Y15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221717 representing NM_080818 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAATGAGCCACTAGACTATTTAGCAAATGCTTCTGATTTCCCGATTATGCAGCTGCTTTTGAAATT
GCACTGATGAAAACATCCCACTCAAGATGCACTACCTCCCTGTTATTTATGGCATTATCTTCCTCGTGGG
ATTTCCAGGCAATGCAGTAGTGATATCCACTTACATTTTCAAATGAGACCTTGAAGAGCAGCACCATC
ATTATGCTGAACCTGGCCTGCACAGATCTGCTGTATCTGACCAGCCTCCCCTTCCTGATTCACTACTATG
CCAGTGGCGAAAACCTGGATCTTTGGAGATTTTCATGTGTAAGTTTATCCGCTTCAGCTTCCATTTCAACCT
GTATAGCAGCATCCTCTTCCTCACCTGTTTCAGCATCTTCGCTACTGTGTGATCATTACCCAATGAGC
TGCTTTTCCATTCAAAAACCTCGATGTGCAAGTTGTAGCCTGTGCTGTGGTGTGGATCATTTCACTGGTAG
CTGTCAATCCGATGACCTTCTTGATCACATCAACCAACAGGACCAACAGATCAGCCTGTCTCGACCTCAC
CAGTTCGGATGAACTCAATACTATTAAGTGGTACAACCTGATTTTGACTGCAACTACTTTCTGCCTCCCC
TTGGTGATAGTGACACTTTGCTATACCACGATTATCCCACTCTGACCCATGGACTGAAAACCTGACAGCT
GCCTTAAGCAGAAAGCACGAAGGCTAACCATCTGCTACTCCTTGCAATTTACGTATGTTTTTACCCTT
CCATATCTTGAGGGTCATTCCGATCGAATCTCGCTGCTTTCAATCAGTTGTTCCATTGAGAATCAGATC
CATGAAGCTTACATCGTTTCTAGACCATTAGCTGCTCTGAACACCTTTGGTAACCTGTTACTATATGTGG
TGGTCAGCGACAACCTTTCAGCAGGCTGTCTGCTCAACAGTGAGATGCAAAGTAAGCGGGAACCTTGAGCA
AGCAAAGAAAATTAGTTACTCAAACAACCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG221717 representing NM_080818
 Red=Cloning site Green=Tags(s)

MNEPLDYLANASDFPDYAAAFGNCTDENIPLKMHYLPVIYGIIFLVGFPGNAVVISYIFKMRPWKSSII
 IMLNLACTDLLYLTSPLFLIHYASGENWIFGDFMCKFIRFSHFNLVSSILFLTCFSIFRYCVIIHPMS
 CFSIHKTRCAVVACAVVWIIISLVAVIPMTFLITSTNRTNRSACLDTSSDELNTIKWYNLILTATTFCLP
 LVIVTLCYTTIIHTLTHGLQTDSCCLKQKARRLTILLLLAFYVCFPLPFHILRVIRIESRLLSISCSIEHQI
 HEAYIVSRPLAALNTFGNLLLYVVVSDNFQQAVCSTVRCKVSGNLEQAKKISYSNNP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_080818

ORF Size: 1011 bp

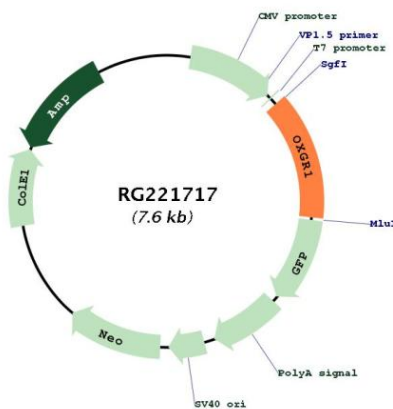
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<ol style="list-style-type: none">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_080818.4
RefSeq Size:	2285 bp
RefSeq ORF:	1014 bp
Locus ID:	27199
UniProt ID:	Q96P68
Cytogenetics:	13q32.1
Domains:	7tm_1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Gene Summary:	This gene encodes a G protein-coupled receptor (GPCR) that belongs to the oxoglutarate receptor family within the GPCR superfamily. The encoded protein is activated by the citric acid intermediate, oxoglutarate, as well as several cysteinyl leukotrienes, including leukotrienes E4, C4 and D4, which are implicated in many inflammatory disorders. In mice, a knock-out of this gene leads to middle ear inflammation, changes in the mucosal epithelium, and an increase in fluid behind the eardrum, and is associated with hearing loss. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2016]

Product images:



Circular map for RG221717