

Product datasheet for SC120362

OXGR1 (NM_080818) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OXGR1 (NM_080818) Human Untagged Clone
Tag:	Tag Free
Symbol:	OXGR1
Synonyms:	aKGR; GPR80; GPR99; P2RY15; P2Y15
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC120362 sequence for NM_080818 edited (data generated by NextGen Sequencing)

```

ATGAATGAGCCACTAGACTATTTAGCAAATGCTTCTGATTTCCCGATTATGCAGCTGCT
TTTGAAAATTGCACTGATGAAAACATCCCACTCAAGATGCACTACCTCCCTGTTATTTAT
GGCATTATCTTCCTCGTGGGATTTCCAGGCAATGCAGTAGTGATATCCACTTACATTTTC
AAAATGAGACCTTGAAGAGCAGCACCATCATTATGCTGAACCTGGCCTGCACAGATCTG
CTGTATCTGACCAGCCTCCCTTCTGATTCACACTATGCCAGTGGCGAAAACCTGGATC
TTTGGAGATTTTCATGTGTAAGTTTATCCGCTTCAGCTTCCATTTCAACCTGTATAGCAGC
ATCCTCTTCTCACCTGTTTCAGCATCTCCGCTACTGTGTGATCATTACCCAATGAGC
TGCTTTTCCATTCACAAAACCTCGATGTGCAGTTGTAGCCTGTGCTGTGGTGTGGATCATT
TCACTGGTAGCTGTCATTCCGATGACCTTCTTGATCACATCAACCAACAGGACCAACAGA
TCAGCCTGTCTCGACCTCACCAGTTCGGATGAACTCAATACTATTAAGTGGTACAACCTA
ATTTTGACTGCAACTACTTTCTGCCTCCCTTGGTGATAGTGACACTTTGCTATACCACG
ATTATCCACACTCTGACCCATGGACTGCAAACCTGACAGCTGCCTTAAGCAGAAAGCACGA
AGGCTAACCACTCTGCTACTCCTTGCAATTTTACGTATGTTTTTACCCTTCCATATCTTG
AGGGTCATTCCGATCGAATCTCGCCTGCTTTCAATCAGTTGTTCCATTGAGAATCAGATC
CATGAAGCTTACATCGTTTCTAGACCATTAGCTGCTCTGAACACCTTTGGTAACCTGTTA
CTATATGTGGTGGTCAGCGACAACCTTTCAGCAGGCTGTCTGCTCAACAGTGAGATGCAAA
GTAAGCGGAACCTTGAGCAAGCAAAGAAAATTAGTTACTCAAACAACCCCTTGA

```

Clone variation with respect to NM_080818.3
600 g=>a



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_080818 unedited
 ACCTGGATTTGTAACCGACTTTATATAGGCGGCACAGCATTTCGGCACGAGGATGCTGCTG
 GCCAGGCTGCTCGGGGCGAGGACCCGAGAACACGCACTTGCTCGCTGGGCCTCGGAGGGG
 TGGGAGGGGCGGGGCGGTGCGCAGCCTCCCCGGGACAGGTCTGCGGTCCGGGACCAACTA
 GGCTGCACAGGCACGCGGGGCGCATGTCCGCTTCTTCGGGGTCCGAGAATCTTGAATC
 CCAATCCGTGAGGTTCTGGGTGTGCTGGCATCAGGACAGCGGTCCACGAACGGTGTGTT
 ACCCAAAATTGACATCCTGCAGCTAGCCTCAAACAATCACAGCTACTTTCCAATTCAG
 AGAAAAAAGGCTAAAATTGGTAATCCTGATGAAAATCAACAAAATACACATGAAGAGAC
 AGCACTGAGAGCGAGTTACTGCTCATTTGATTCATATTGCCAAACTGAACTCTCTGTGTT
 TCTTGCAAGATGAAAGGAGACAACCATGAATGAGCCACTAGACTATTTAGCAAATGCTTC
 TGATTTCCCCGATTATGCAGCTGCTTTTGGAAATTGCACTGATGAAAACATCCCCTCAA
 GATGCACTACCTCCCTGTTATTTATGGCATTATCTTCTCGTNGATTTCAGGCAATGC
 AGTAGTGATATCCACTTACATTTCAAATGAGACCTTGAAGAGCAGCACCATCATTAT
 GCTGAACCTGGCCTGCACAGATCTGCTGTATCTGACCAGCCTCCCCTTCTGATTCTACTA
 CTATGCCAGTGGCGAAAACCTGGATCTTTGNGAGATTCATGTGTAAGTTTATCCGCTTCAG
 CTTCAATTC AACCTGTATAGCAGCATCCTTCTNACCTGTTTCAGCATCTTCCGCTAC
 TGTGTGATCATTCCCCCN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_080818 unedited
 TTGGTNCAGCTAAGNNACCGCGCCGCAATCTANGATCGAGTTTTTTTTTTTTTTTTTTTT
 TTACATAATTATAAATAAGTTTATTAAGTGTACCAACATGTTTATGAGGGTTTTAAATAT
 CCAGACCATGTGTTTTCTCAAATATTTACTTACCGATAATTAAGCACACATACAATTC
 AAAAATATCTTTAGCTATCACATAGACATATGTTTATTGTAGTCATAAAAGAACAAGGAG
 TCTAAAGAGAATTAGCGTTTCTGGAATATTTCCACAAAAATCAAACAGTGTAGAT
 ATGATTGAACACCAATACATACATGACATCTGAAAGTGACTTCTGTCCTAGAAAGTTTC
 CCTTCCTTCCCCAGGACATGTTAATAATGATGAATACAATTTGATAATTTTCATACATTC
 AATAAAAACTTTTTAACAACAATAAAGACATAATACTCCAATATATTGCAGGTAATAAT
 TTCAACTATTTGCATGGACGCTTGGATTATTTCAAGGGTATCTTACTGGCTTGAAGTA
 ATATACAGAACTGGCTAAACCCAGTTTTATAATCTCAAAGTTAAGCTTGAAGGAAACAAA
 TTGTAGAGCTCTGAGATGTAATAAATAAATTAAGAAAGATACAAGTAGTGGTTTGAAT
 TGTCTAATGGTTCAATACAAATAGGCCAGAGTGCAGAGAAGCATGAAATGATGAGTGAA
 AAGATTGTTTTTCTCTATCTTGGCACANATTTACTGAGCAATCTAGGGCAAGGGTAAGA
 AATTGGTTTTCCGTGTATATATAGTAAGTTGGTGGGAACAGATGTTCTCTAAGATGCTCTG
 AGNTCCAATAGCTGGTAATACTATGTCTGGATACTTTGCTGAATACATGCATCCCCATTC
 TATATCTCCCCAGG

Restriction Sites:

NotI-NotI

ACCN:

NM_080818

Insert Size:

2600 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_080818.3](#), [NP_543008.3](#)

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]
Transcript Variant: This variant (5) uses an alternate splice site in the 5' UTR, compared to variant 1. Variants 1, 2, 3, 4, and 5 encode the same protein.