

Product datasheet for **SC114958**

GPR58 (TAAR2) (NM_014626) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR58 (TAAR2) (NM_014626) Human Untagged Clone
Tag:	Tag Free
Symbol:	GPR58
Synonyms:	GPR58; taR-2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_014626, RT-PCR generated
GAGTGGCTATGTATTCATTTATGGCAGGATCCATATTCATCACAATATTTGGCAATCTTG
CCATGATAATTTCCATTTCTACTTCAAGCAGCTTCACACACCAACCAACTTCCTCATCC
TCTCCATGGCCATCACTGATTTCTCTGGGATTCACCATCATGCCATATAGTATGATCA
GATCGGTGGAGAAGCTGCTGGTATTTGGGCTTACATTTTGCAAGATTTATTATAGTTTTG
ACCTGATGCTTAGCATAACATCCATTTTTTTCATCTTTGCTCAGTGGCCATTGATAGATTTT
ATGCTATATGTTACCCATTACTTTATCCACCAAATAACTATTCAGTCATTAAGAT
TGCTACTTCTATGTTGGTCGGTCCCTGGAGCATTGCCTTTGGGGTGGTCTTCTCAGAGG
CCTATGCAGATGGAATAGAGGGCTATGACATCTGGTTGCTTGTCCAGTTCCTGCCAG
TGATGTTCAACAAGCTATGGGGACCACCTTGTTTATGGCAGGTTTCTTCACTCCTGGGT
CTATGATGGTGGGATTTATGGCAAAATTTTGCAGTATCCAGAAAACATGCTCATGCCA
TCAATAACTTGCAGAAAATCAAAATAATCAAGTGAAGAAAGACAAAAAGCTGCCAAAA
CTTTAGGAATAGTGATAGGAGTTTTCTTATTATGTTGGTTTTCTTGTTCCTTCACAATTT
TATTGGATCCCTTTTGAACCTTCTACTCCTGTAGTTTTGTTTGTGATGCCTTGACATGGT
TTGGCTATTTAACTCCACATGTAATCCGTTAATATATGGTTTTCTTCTATCCCTGGTTTC
GCAGAGCACTGAAGTACATTTTGCTAGGTAATAATTTTCAGCTCATGTTCCATAATACTA
TTTTGTGTATGCAAAAAGAAAGTGAGTAGGC



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014626 unedited
 CCGTTCCCNNAACTACGGGATTTGTTACACTATACACGTGAGNCGGACCGCGCAATTC
 AGAANCTGGATACCGNAGCTCGGCATCCACTAGTAACGGCCGCCAGTGTGCTGGAATTCG
 GCTTGAGTGGCTATGTATTCATTTATGGCAGGCTGCCATATTCATCACAATTTTGGCAA
 TCTTGCCATGATAATTTCCATTTCTACTTCAAGCAGCTTCACACCAACCAACTTCT
 CATCCTCTCCATGGCCATCACTGATTTCTCCTGGGATTCACCATCATGCCATATAGTAT
 GATCAGATCGGTGGAGAAGTCTGGTATTTGGGCTTACATTTTGCAAGATTTATTATAG
 TTTTGACCTGATGCTTAGCATAACATCCATTTTTCATCTTTGCTCAGTGGCCATTGATAG
 ATTCTATGCTATATGTTACCCATTACTTTATTTCCCAAAAATACTATTCCAGTCTTTA
 AAAAAATTGCTACTCTTTATGTTGGGGCCGGCCCCGGAAAAATTTCCCTGGGGGGGG
 GTTTTCTCGAAACCCCTAACCAATTGGAAAAAAGGGGCCACACCCTTTGGGGGGGG
 GGGGGTAAAAAACCCCCCCCCCAATTAATAAAAAAACACTTTGGGGGGGGCCCC
 CCCCCCTTTTTTGGGGGGGGGGTTTTCCCCCCCCCCCCCTTTATATAGGGGGGGG
 GGGTGGGAAAAAANNNNNNNNTTAAAAAACAACATCTCTCC
 TCTCCTCTCTTTTTTGGGGGGGGGAGAGAAGAAAAATAATTTTTTTTTTTAAAA
 AAAAAACACACCCCCACACCCCCCCCCCGCCCCGGGGGGGGGGGGGGGGGGGG
 GGGGGGGGNNNGNNGNNTTCTTTTTGTCTCTCCCTCCCCCCCCCCCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_014626 unedited
 GGGGGGCCACTGGGGTGAGGCCAACCTTCCAGGTCCAGGGAGGAGCAACGGGTAGGGG
 CTCACAGGGGATGCCACCGGCATCTGTTCCAGGAAACAGCTATGACCGCGGCCCCAGT
 GTGATGGATATCTGCAGAATTCGGCTTAGCCTACTCACTTTCTTTTGCATACACAAAAT
 AGTATTATGGAACATGAGCTGAAAATTTACCTAGCAAATGTACTTAATTGCTCTGCG
 AAACCAGCGATAGGAAGCAAACCATATATTAACGGATTACATGTGGAGTTAAGAATAGCC
 GAACCATGTCAAGGCATCCACACAACACAGGAGTGCAGAAGTTCAAAAAGGGATCCAA
 CTAATTTGTGAAGAAACCGGTAACCAACTTATTGGCAAATCTCCTATCACGATTCCTAA
 CGGTATGGCAGCTGTTTGGTACTTCTTCAATTGAACATCGTGATTGTACAGAAAATTATA
 AGATGTTATGATGCACGCTGATCGGATCCTGTAAGTTTGTAAACGAGACTGCCAATCGA
 GGACCAGGAATGTAGAACCATGGCAAGGAGACGAGGAGGCAAAAGGATACTAAATACAAC
 CGCGTCCGCACCTGCAACCACCGTAAAAAGGCCAACATACCCTATAAAACACTGCCACAG
 GCGACAGAGAAGGACCGACCAATCCGACAAGCCAAACGACGCCGCTGCAACGCAGAGT
 ACGCGCAGCCAGCCCTGTCCACATCACCAGACGCCGACGCGATGCCACGCCATTACTGC
 CAACCCATAAGGGGGGGCGCGCTGAGTCAACCGACGCGACCGAGTTGATAGCCGACCAA
 CGCTGACGAGGATAGCGCGACATGAGAATAAGCACGTGTACCGCGGCCCAATGCAATAT
 CGTCTCNATATAACGGGACGACATAACAGG

Restriction Sites:

Please inquire

ACCN:

NM_014626

Insert Size:

1050 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_014626.2](#), [NP_055441.2](#)

RefSeq Size: 921 bp

RefSeq ORF: 921 bp

Locus ID: 9287

UniProt ID: [Q9P1P5](#)

Cytogenetics: 6q23.2

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

Gene Summary: Orphan receptor.[UniProtKB/Swiss-Prot Function]
 Transcript Variant: This variant (2) lacks part of the 5' coding region, compared to variant 1. The encoded isoform (2) is shorter, compared to isoform 1.