

Product datasheet for **SC117171**

GPR44 (PTGDR2) (NM_004778) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR44 (PTGDR2) (NM_004778) Human Untagged Clone
Tag:	Tag Free
Symbol:	GPR44
Synonyms:	CD294; CRTH2; DL1R; DP2; GPR44
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>SC117171 representing NM_004778. Blue=Insert sequence Red=Cloning site Green=Tag(s)

TCGTGTGGCGCGGCTGCCCTTCGTCACCAAGCCTGGCCTTCTTCAACAGCGTGGCCAACCCGGTGTCT
ACGTGCTCACCTGCCCGACATGCTGCGCAAGCTGCGGCGCTCGCTGCGCACGGTCTGGAGAGCGTGC
TGGTGGACGACAGCGAGCTGGGTGGCGCGGAAGCAGCCGCCCGCCGACCTCCTCCACCGCCCGCT
CGGCTCCCTTTAGCTCTCTGCAGCCGCCGAGGAACCGGGGCCCGCGCTCCTCGGTGGC
TGCTGGGAGCTGCGCAGCGTCCCGCAGACGGGCCCTGAACCGGGCGCTGAGCAGCACCTCGAGT
TAG

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004778 unedited
ATCTTGATTTGTAACGACTTATATAGGCGCCGAGACATTGCGACGAGGCTTGTCTAGC
TGCTGTCAGGAGCTGACTGCCTCCAGGGCTGGAATCCTGTGCTCCCTCTGTGCCAGAGC
CCCACGATGTCGGCCAACGCCACTGAAGCCACTCTGCCCCATCCTGGAGCAGATGAGC
CGTCTCCAGAGCCACAGCAACACCAGCATCCGTTACATCGACCACGCGCCGTGCTGCTG
CACGGGCTGGCCTCGCTGCTGGCCTGGTGGAGAATGGAGTCATCCTCTTCTGTTGGG
TGCCGCATGCCAGACCGTGGTACCACCTGGGTGCTGCACCTGGCGCTGCCACCTG
TTGGCCTCTGCTCCCTGCCCTTTCACCTACTTCTTGGCCGTGGGCCACTCGTGGGAG
CTGGGCACCACCTTCTGCAAACTGCACTCCTCCATCTTCTTCTCAACATGTTGCCAGC
GGTTCCTGCTCAGCGCCATCAGCCTGGACCGCTGCCTGCAGGTGGTGGCCCGGTGTGG
GCGCAGAACCCGACCGTGGCCGCGCGCACAAAGTCTGCCTGGTGTCTTGGGCACTA
GCGGTGCTCAACACGGTGCCTATTTCTGTTCCGGGACACCATCTCGCGGCTGGACGGG
CGCATTATGTGCTACTANCATGTGCTGCTCCTGAACCCGGGGCCTGACCGCATGCCACG
TGCAACTCGCGCCAGGCGGCCCTGGCCGTGAGCAAGTTCCTGCTGGCCTTCTGTTGCCG
CTGGCGATCATCGNCTCGAGCCACGCCCGCTGAGCCCTGCGTTGAGCAGCACCAGCGCCG
CGGGCGCCAGCCGCTTCTGTCGCTGGTGGCGCCGCTTGGCCGCTTNCCTGCTGCTG
TGGGGCCCTACCACGTGTC



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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_004778 unedited TAGCTTGAACGCGCCGCATCTAAGATCGGTTTTTTTTTTTTTTTTTTTTTTTCCAGTCTA CAGCAAAATATTTATTGAGTGCCTGTTGCATACAGGCACAATCCTAGGCACCGGCAAAT ACAGACAATAGACCAAAGTCCCTGCCCTCGAGGAGCTTTCATTCTGATGGAGAGAAAACA TAATAACAAGCAAAATGCACCACGTGTCCAATGGGGGAAGTGTATGAGTAAAGGGGGA AGGGATGGGAGGGAGCAGGGGCGAGGTGTCAACACAGGGTGGCTCTGCAGCTAGCTGGC ACCTCACTGTTCCCTTTGCTCAGCACCTGCTGTGGGCCAGGCCTCAGTGACCCTGGCCT TTGGTGGCAGAAAAACACAGGACCAAGATCTCAAGAGTTTCTCATCTGCTTCTTCCACT GACATTTTCATCCCAAGCAAAATTCATTGACACCAACTTTTCGGTCCCTGGGCTGCAGA GCTCAAACACAGCAGTCTCTGACCCCAAGTCCACGGCAGGTGGAGGAATGAGACGGGGTG CAGCGAAGTGATAGGCCAGAGGTGCAAGTTACCCCTCCCATCCGAAAAGGAAATGGA ACCTGCCAGCCCATGTGGCCTGAAGGCGGGGCTGCACAGATCTTGGGATTACCAGCG CCCAGAGGGATCCACAGAACCACAGCCGAAAGGGAGGCTGGCCCCCTAACATAGAAA TGAGTGGGGCGGGACCTTAAAGTTGCTGGGGCCATCAAATTTAACGCCAACATTTT ATCCCTTCCCCCAGGGAATTGTTACCCAAGGTTCCCCGGTGGTTGAACCCCCATCCC CTGTGCTTCTGCTTGGAAAACCTTTGGGCAGGGCTGGTCCAAGGATCTCTTAACCCCTCG AGAGGTA AAAAAGCCCCCCCCCAGAGCCCGTACATGGGCCGCCACGTA
Restriction Sites:	NotI-NotI
ACCN:	NM_004778
Insert Size:	1188 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:	<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_004778.1
RefSeq Size:	2901 bp
RefSeq ORF:	1188 bp
Locus ID:	11251
UniProt ID:	Q9Y5Y4
Cytogenetics:	11q12.2
Domains:	7tm_1
Protein Families:	Druggable Genome, GPCR, Transmembrane

MW: 43.2 kDa

Gene Summary: This gene encodes a G-protein-coupled receptor that is preferentially expressed in CD4+ effector T helper 2 (Th2) cells. This protein is a prostaglandin D2 receptor that mediates the pro-inflammatory chemotaxis of eosinophils, basophils, and Th2 lymphocytes generated during allergic inflammation. Single nucleotide polymorphisms in the 3' UTR of this gene have been associated with asthma susceptibility.[provided by RefSeq, Mar 2011]