

Product datasheet for **RG223378**

GPR44 (PTGDR2) (NM_004778) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR44 (PTGDR2) (NM_004778) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPR44
Synonyms:	CD294; CRTH2; DL1R; DP2; GPR44
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG223378 representing NM_004778 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGCCAACGCCACACTGAAGCCACTCTGCCCATCCTGGAGCAGATGAGCCGTCTCCAGAGCCACA
GCAACACCAGCATCCGCTACATCGACCACGCGCCGCTGCTGCTGCACGGGCTGGCCTCGCTGCTGGGCT
GGTGGAGAATGGAGTCATCCTCTCGTGGTGGGCTGCCGCATGCCAGACCGTGGTACCACCTGGGTG
CTGCACCTGGCGCTGCCGACCTGTTGGCTCTGCTCCCTGCCCTTCTTCACTACTTCTTGGCCGTGG
GCCACTCGTGGGAGCTGGGCACCACCTTCTGCAAAGTGCCTCCATCTTCTTCTCAACATGTTTCGC
CAGCGGCTTCTGCTCAGCGCCATCAGCCTGGACCGCTGCTGCAGGTGGTGCAGCCGGTGGGCGCAG
AACCACCGCACCGTGGCCGCGGCCACAAAGTCTGCCTGGTGGTGGGCACTAGCGGTGCTCAACACGG
TGCCCTATTTCTGTTCCGGGACACCATCTCGCGGCTGGACGGGCGCATTATGTGCTACTACAATGTGCT
GCTCCTGAACCCGGGCTGACCGCGATGCCACGTGCAACTCGCGCCAGGCGGCCCTGGCCGTGAGCAAG
TTCCTGCTGGCCTTCTGGTGCCGCTGGCGATCATCGCTCGAGCCACGCGGCCGTGAGCCTGCGGTTGC
AGCACCGCGCCCGCGCGGCCAGGCCGCTTCTGCGCCTGGTGGCAGCCGTGTTGGCCGCTTCCGCGCT
CTGCTGGGGGCCCTACCACGTGTTACGCTGCTGGAGGCGGGCGCACGCAACCCGGGCTGCGGCCG
CTCGTGTGGCGGGCTGCCCTTCTGACAGCCTGGCCTTCTTCAACAGCGTGGCAACCCGGTGGCTCT
AGGTGCTCACCTGCCCGACATGCTGCGAAGCTGCGGCCTCGTGCACGGTGGTGGAGAGCGTGGT
GGTGGACGACAGCGAGCTGGGTGGCGGGGAAGCAGCCGCGCCGCCACCTCCTCCACCGCCCGCTCG
GCCTCCCTTTAGCTCTCTGCAGCCGCCGAGGAACCGCGGGGCCCGCGCTCTCCTCGGCTGGCTGC
TGGGCAGCTGCGCAGCGTCCCGCAGACGGGCCCTGAACCGGGCGCTGAGCAGCACCTCGAGT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA



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Protein Sequence: >RG223378 representing NM_004778
 Red=Cloning site Green=Tags(s)

```
MSANATLKPLCPILEQMSRLQSHSNTSIRYIDHAAVLLHGLASLLGLVENGVILFVVGCRMRTVVTTW
LHLALSDLLASASLPFFTYFLAVGHSWELGTTFCCKLHSSIFFLNMFASGFLLSAISLDRCLQVVRPVWAQ
NHRTVAAAHKVCLVLWALAVLNTVPYFVFRDTISRDLGRIMCYNVLLNPGPDRDATCNSRQAALAVSK
FLLAFLVPLAIIASSHAAVSLRLQHRGRRRPGRFVRLVAAVVAAFALCWGPYHVFSLLEARAHANPGLRP
LVWRGLPFVTSLAFFNSVANPVLVYLTCPDMLRKLRRSLRTVLESVLDVDDSELGGAGSSRRRRTSSTARS
ASPLALCSRPEEPRGPARLLGWLLGSCAASPQTGPLNRALSSTSS
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004778

ORF Size: 1185 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_004778.1](#), [NP_004769.1](#)

RefSeq Size: 2901 bp

RefSeq ORF: 1188 bp

Locus ID: 11251

UniProt ID: [Q9Y5Y4](#)

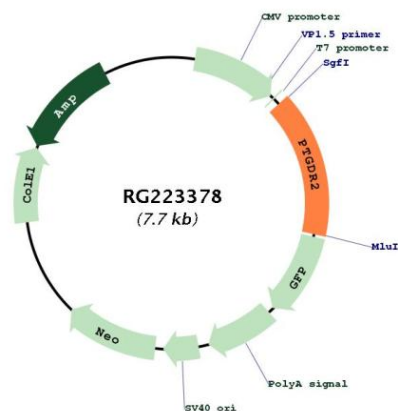
Cytogenetics: 11q12.2

Domains: 7tm_1

Protein Families: Druggable Genome, GPCR, Transmembrane

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]

Product images:



Circular map for RG223378