

## Product datasheet for **RG237270**

### Prostaglandin D2 Receptor (PTGDR) (NM\_001281469) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prostaglandin D2 Receptor (PTGDR) (NM_001281469) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Prostaglandin D2 Receptor
Synonyms:	AS1; ASRT1; DP; DP1; PTGDR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237270 representing NM_001281469. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAAGTCGCGGTTCTACCGCTGCCAGAACACCACCTCTGTGAAAAAGGCAACTCGGCGGTGATGGGC
GGGGTGTCTTTCAGCACCGGCCTCCTGGCAACCTGCTGGCCCTGGGGCTGCTGGCGCGCTCGGGGCTG
GGGTGGTGTCTCGCGCGTCCACTGCGCCCGTCCCTCGGTCTTCTACATGCTGGTGTGTGGCCTGACG
GTCACCGACTTGCTGGGCAAGTGCCTCCTAAGCCCGTGGTGTGGCTGCCTACGCTCAGAACCGGAGT
CTGCGGGTGTGCGCCCGCATTGGACAACCTCGTTGTGCCAAGCCTTCGCCTTCTCATGTCCTTCTTT
GGGCTCTCCTCGACTGCAACTCCTGGCCATGGCACTGGAGTGTGGCTCTCCCTAGGGCACCCCTTC
TTCTACCGACGGCACATACCCTGCGCCTGGGCGCACTGGTGGCCCGGTGGTGAGCGCCTTCTCCCTG
GCTTTCTGCGCGCTACCTTTTCATGGGCTTCGGGAAGTTCGTGCAGTACTGCCCGGCACCTGGTGCTTT
ATCCAGATGGTCCACGAGGAGGGCTCGCTGTCCGTGCTGGGGTACTCTGTGCTCTACTCCAGCCTCATG
GCGCTGTGGTCTCGCCACCGTGTGTGCAACCTCGGCGCCATGCGCAACCTCTATGCGATGCACCGG
CGGCTGCAGCGGCACCCGCGCTCCTGCACAGGGACTGTGCCGAGCCGCGCGGGACGGGAGGGAAGCG
TCCCTCAGCCCTGGAGGAGCTGGATCACCTCCTGCTGCTGGCGCTGATGACCGTGTCTTTCATATG
TGTCTCTGCCCGTAATTGCATTTGTTCTGGAGTCCCCGCCAAGACACCTGGGAGTAGG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237270  
 Blue=ORF Red=Cloning site Green=Tag(s)

MKSPFYRCQNTTSVEKGN SAVMGGVLFSTGLLGNLLALG LLARSGLGWCSRRLRPLPSVFYMLVCGLT  
 VTDLLGKCLLSPVYLAAYAQNRSRLV LAPALDNSLCQAF AFMSFFGLSSTLQLLAMALECWL SLGHPF  
 FYRRHITLRLGALVAPVVS AFSLAF CALPFMGFGKFVQYCPGTWCFIQMVHEEGSLSVLGYSVLYSSLM  
 ALLVLATVLCNLGAMRNLYAMHRR LQRHPR SCTRDCAEPRADGREAS PQLEELDHL LLLALMTVLF TM  
 CSLPVI AFVPGVPAKTPGSR  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV  
 MGYGFYHFGTYP SGYENPFLHAI NNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPE D  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001281469

**ORF Size:** 888 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).

**RefSeq:** [NM\\_001281469.2](#)

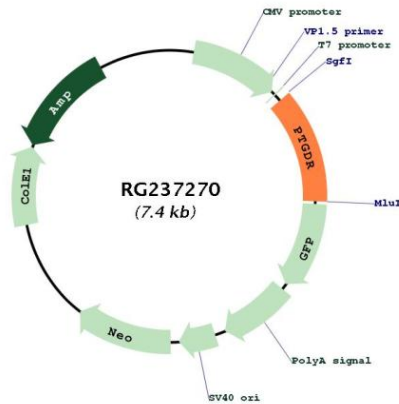
**RefSeq Size:** 3057 bp

**RefSeq ORF:** 891 bp

**Locus ID:** 5729  
**UniProt ID:** [Q13258](#)  
**Cytogenetics:** 14q22.1  
**Protein Families:** Druggable Genome, GPCR, Transmembrane  
**Protein Pathways:** Neuroactive ligand-receptor interaction  
**MW:** 32.8 kDa

**Gene Summary:** This gene encodes a member of the guanine nucleotide-binding protein (G protein)-coupled receptor (GPCR) superfamily. The receptors are seven-pass transmembrane proteins that respond to extracellular cues and activate intracellular signal transduction pathways. This protein is reported to be a receptor for prostaglandin D2, which is a mediator of allergic inflammation and allergic airway inflammation in asthma. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]

**Product images:**



Circular map for RG237270