

Product datasheet for RC237270

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:	Myc-DDK
Symbol:	PTGDR
Synonyms:	AS1; ASRT1; DP; DP1; PTGDR1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237270 representing NM_001281469 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAAGTCGCCGTTCTACCGCTGCCAGAACACCACCTCTGTGGAAAAGGCAACTCGGCGGTGATGGCG
GGGTGCTCTTCAGCACCGGCTCCTGGCAACCTGCTGGCCCTGGGGCTGCTGGCGGCTCGGGGTGG
GTGGTGTGCGCGGCTCCACTGCGCCCGCTGCCCTCGGTCTTCTACATGCTGGTGTGTGGCTGACGGT
ACCGACTTGCTGGCAAGTGCCTCCTAAGCCCGGTGGTGTGCTGGCTGCCTACGCTCAGAACCGGAGTCTGC
GGGTGCTTGCGCCGATTGGACAACTCGTTGTGCCAAGCCTTCGCCCTTCTCATGTCCTTCTTTGGGT
CTCCTCGACACTGCAACTCCTGGCCATGGCACTGGAGTGTGGCTCTCCCTAGGGCACCTTTCTTCTAC
CGACGGCACATCACCTGCGCTGGGCGCACTGGTGGCCCGGTGGTGGAGCGCTTCTCCCTGGCTTTCT
GCGCGTACCTTTTATGGGCTTCGGGAAGTTCGTGCACTACTGCCCGGCACCTGGTGTATCCAGAT
GGTCCACGAGGAGGGCTCGTGTGCAACCTCGGCGCCATGCGCAACCTCTATGCGATGCACCGGCGGCTGCAG
GGCACCCGCGCTCCTGCACAGGACTGTGCCAGCCGCGCGGACGGGAGGGAAGCGTCCCCTCAGCC
CCTGGAGGAGCTGGATCACCTCCTGCTGCTGGCGCTGATGACCGTGTCTTCACTATGTGTTCTCTGCC
GTAATTGCATTTGTTCTGGAGTCCCGCCAAGACACCTGGGAGTAGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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MKSPFYRCQNTTSVEKGN SAVMGGVLFSTGLLGNLLALG LLARSGLGWCSRRLRPLPSVFYMLVCGLTV
 TDLLGKCLLSPVLAAYAQNRSRLRVLAPALDNSLCQAF AFFMSFFGLSSTLQLLAMALECWL SLGHPPFY
 RRHITLRLGALVAPVVSFAFLAFCALPFMGFGKFVQYCPGTWCFIQMVHEEGSLSVLGYSVLYSSLMALL
 VLATVLCNLGAMRNL YAMHRRLLQRHPR SCTRDCAEPRADGREASPOPLEELDHL LLLLALMTVLF TMC SLP
 VIAFVPGVPAKTPGSR

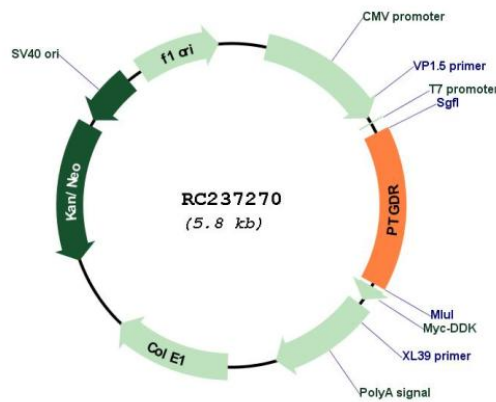
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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).
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_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]