

## Product datasheet for **RG209950**

### Prostaglandin I2 Receptor (PTGIR) (NM\_000960) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prostaglandin I2 Receptor (PTGIR) (NM_000960) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Prostaglandin I2 Receptor
Synonyms:	IP; PRIPR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209950 representing NM_000960 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGATTCGTGCAGGAACCTCACCTACGTGCGGGCTCGGTGGGGCCGGCCACCAGCACCTGATGT  
TCGTGGCCGGTGTGGTGGCAACGGGCTGGCCCTGGGCATCCTGAGCGCACGGCGACCGCGCCCTC  
GGCCTTCGCGGTGCTGGTACCGGACTGGCGGCCACCGACTGCTGGGCACCAGCTTCTGAGCCCGGCC  
GTGTTCTGTGGCCTATGCGCGCAACAGCTCCCTGCTGGGCTGGCCGAGGCGGCCCGCCCTGTGCGATG  
CCTTCGCCTTCGCCATGACCTTCTTCGGCTGGCGTCCATGCTCATCCTTTGCCATGGCCGTGGAGCG  
CTGCCTGGCGCTGAGCCACCCCTACCTCTACGCGCAGCTGGACGGGCCCGCTGCCCGCCCTGGCGCTG  
CCAGCCATCTACGCCTTCTGCGTCTTCTGCGCGCTGCCCTGCTGGGCTGGGCAACACCAGCAGT  
ACTGCCCGGCGAGCTGGTGTCTCCTCCGCATGCGCTGGGCCAGCCGGCGGCGCCGCTTCTCGTGGC  
CTACGCCGGCCTGGTGGCCCTGCTGGTGGCTGCCATCTTCTCTGCAACGGCTCGGTACCCCTCAGCCTC  
TGCCGCATGTACCGCCAGCAGAAGCGCCACCAGGGCTCTCTGGGTCCACGGCCGCGCACCGGAGAGGACG  
AGGTGGACCACCTGATCCTGTGCCCCTCATGACAGTGGTTCATGGCCGTGTGCTCCCTGCCTCTCAGAT  
CCGCTGCTTACCCAGGCTGTGCCCCCTGACAGCAGCAGTGAGATGGGGACCTCCTTGCCTTCCGCTTC  
TACGCCTTCAACCCATCCTGGACCCCTGGGTCTTCATCCTTTTCCGCAAGGCTGTCTCCAGCGACTCA  
AGCTCTGGGTCTGCTGCCTGTGCCTCGGGCTGCCACGGAGACTCGCAGACACCCCTTCCAGCTCGC  
CTCCGGGAGGAGGACCAAGGGCCCCCTGCTCCTGTGGAAAGGAGGGAGCTGCGTGCCTTTGTGCG  
GCTTGGGCGAGGGGAGGTGGAGCCCTTGCCTCCACACAGCAGTCCAGCGGCAGCGCCGTGGAAACGT  
CGTCCAAAGCAGAAGCCAGCGTGCCTGCTCCCTCTGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG209950 representing NM\_000960  
 Red=Cloning site Green=Tags(s)

MADSCRNLTYVRGSVGPATSTLMFVAGVVGNGLLALGILSARRPARPSAFVAVLVTGLAATDLLGTSFLSPA  
 VVYAYARNSSLLGLARGGPALCDAFAMTFFFGLASMLILFAMAVERCLALSHPYLYAQLDGPFCARLAL  
 PAIYAFVLFALPLLGLGQHQYCPGWCFLMRWAQPGGAASLAYAGLVALLVAAIFLCNGSVTLSL  
 CRMYRQQRHQGSLGPRPRTGEDEVHLLILLALMTVVMVAVCSLPLTIRCFQAVAPDSSSEMGDLLAFRF  
 YAFNPILDPWVFIILFRKAVFQRLKLWVCLCLGPAHGDSTPLSQLASGRDRPRAPSAPVKGEGSCVPLS  
 AWGEGQVEPLPPTQSSGSAVGTSSKAEASVACSLC

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_000960

**ORF Size:** 1158 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\\_000960.1](#)

**RefSeq Size:** 2103 bp

**RefSeq ORF:** 1161 bp

**Locus ID:** 5739

**UniProt ID:** [P43119](#)

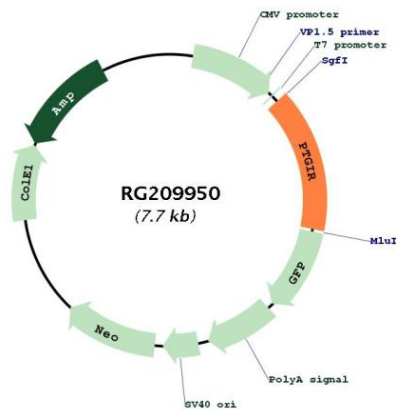
**Cytogenetics:** 19q13.32

**Protein Families:** Druggable Genome, GPCR, Transmembrane

**Protein Pathways:** Neuroactive ligand-receptor interaction, Vascular smooth muscle contraction

**Gene Summary:** The protein encoded by this gene is a member of the G-protein coupled receptor family 1 and has been shown to be a receptor for prostacyclin. Prostacyclin, the major product of cyclooxygenase in macrovascular endothelium, elicits a potent vasodilation and inhibition of platelet aggregation through binding to this receptor. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG209950