

## Product datasheet for MR205330

### Ptgr2 (NM\_029880) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ptgr2 (NM_029880) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ptgr2
Synonyms:	1810016I24Rik; 9130222H03Rik; 9630002F03Rik; A1838763; B830026H24Rik; PGR-2; PRG-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205330 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATCATACAAAGAGTGGTATTGAATCCCGACCTGGGAAAAATGGAAATCCAGTCGCAGAGAAGTTCA  
GGGTGGAAGAGTTCAGTTTACTGGATGCTCTCAATGAAGGTCAAGTTCAAGTGGAGACTCTTTATCTCTC  
GGTGGATCCTTACATGCGCTGTAAGATGAACGAGGACACTGGCACTGACTACTTGGCACCCTGGCAGCTG  
GCGCAGGTGGCTGATGGTGGAGGAATTGGAATTGTAGAAGAGAGCAAGCACCAGAAGTTGGCTAAAGGCC  
ATTTTGTGACTTCGTTTTACTGGCCCTGGCAAATAAGGCAATCTAGACGGGAATGGCCTGAAAAGGT  
AGACCCACAACCTGTAGATGGACACCTTTCATATTTCTTGGAGCTATAGGTATGCCTGGCTTGACTTCC  
TTGATTGGGGTACAAGAGAAAGGCCATATATCTGCTGGATCTAATCAGACAATGGTTGTCAGCGGAGCAG  
CAGGCGCCTGTGGATCTTTGGCTGGGCAGATTGGCCACCTGCTTGGCTGTTCCAGAGTGGTGGGAATTTG  
TGGAACTCAGGAGAAATGTCTCTTTTACCTCAGAGCTGGGGTTTGTAGCTGCAGTTAATTACAAAACA  
GGGAATGTGGCAGAGCAGCTGCGAGAAGCGTGCCCGGGCGGAGTGGATGTCTACTTTGACAATGTTGGAG  
GTGACATCAGCAACCGGTGATAAGTCAGATGAATGAGAACAGCCACATCATTCTGTGTGGTCAGATTTCT  
TCAGTACAATAAAGATGTGCCCTACCCTCCTCCACTGCCCCCTGCAGTAGAAGCCATCCGGAAGGAACGA  
AACATACAAGAGAGAGATTTACGGTATTAATTATAAAGATAAATTTGAGCCTGGAATTTACAGCTGA  
GTCAGTGGTTTTAAAGAAGGAAAAGCTAAAGGTCAAGGAGACCGTGGCAAAGGGCTTGGAAAACATGGGAGT  
TGCAATCCAGTCCATGATGACAGGGGGCAACGTAGGGAACAGATCGTCTGCATTTCAGAAGATTCTTCT  
CTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >MR205330 protein sequence  
Red=Cloning site Green=Tags(s)

MIIQRVVLNSRPGKNGNPVAENFRVEEFSLLDALNEGQVQVRTLYL SVDPYMRCKMNETDGT DY LAPWQL  
 AQVADGGGIGIVEESKHQKLAKGDFVTSFYWPWQTKAILDGNLEKVD PQLVDGHL SYFLGAIGMPGLTS  
 LIGVQEKGHI SAGSNQTMVVS GAAGACGSLAGQIGHLLGCSR VVIGCTQEKCLFLTSELGFDAAVNYKT  
 GNVAEQLREACPGGVDVYFDNVGGDISNTVISQMNENSHIILCGQISQYNKDVPPYPPPLPPAVEAIRKER  
 NITRERFTVLN YKDKFEPGILQLSQWFKEGKLVKETVAKGLENMGVAFQSMMTGGNVGKQIVCISEDSS  
 L

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_029880

**ORF Size:** 1056 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 Size:** 3121 bp

**RefSeq ORF:** 1056 bp

**Locus ID:** 77219

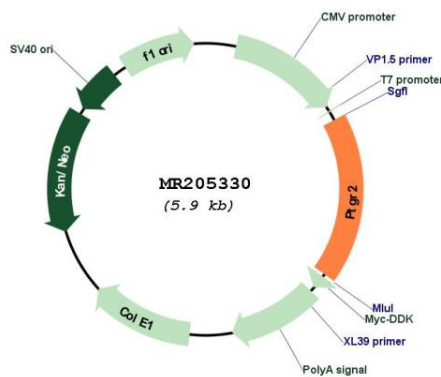
**UniProt ID:** [Q8VDQ1](#)

**Cytogenetics:** 12 D1

**MW:** 38.1 kDa

**Gene Summary:** Functions as 15-oxo-prostaglandin 13-reductase and acts on 15-keto-PGE1, 15-keto-PGE2, 15-keto-PGE1-alpha and 15-keto-PGE2-alpha with highest activity towards 15-keto-PGE2. Overexpression represses transcriptional activity of PPARG and inhibits adipocyte differentiation.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR205330