

Product datasheet for **MR229117**

Ptgr2 (NM_001252626) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ptgr2 (NM_001252626) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ptgr2
Synonyms: 1810016I24Rik; 9130222H03Rik; 9630002F03Rik; A1838763; B830026H24Rik; PGR-2; PRG-2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR229117 representing NM_001252626
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCATCAACGCTGTAAGATGAACGAGGACACTGGCACTGACTACTTGGCACCGTGGCAGCTGGCGCAGG
TGGCTGATGGTGGAGGAATTGGAGTTGTAGAGGAGAGCAAGCACCAGAAGTTGACTAAAGCGGATTTTGT
GACTTCGTTTTACTGGCCCTGGCAAACCTAAGGCAATTCTAGATGGGAATGGCCTTGAAAAGGTAGACCCA
CAACTTGTAGATGGACACCTTTCATATTTCTTGGGGCTATAGGTATGCCTGGCTTGACTTCCTTGATTG
GGGTACAGGAGAAAGGCCATATATCTGCTGGATCTAATCAGACAATGGTTGTCAGTGGAGCAGCAGGCGC
CTGTGGATCTTTGGCTGGCAGATTGGCCACCTGCTTGGCTGTTCCAGAGTGGTGGGAATTTGTGGAACG
CAGGAGAAATGTCTCTTTTTGACCTCAGAGCTGGGGTTTGATGCTGCAGTTAATTACAAAACAGGGAATG
TGGCAGAGCAGCTGCGAGAAGCGTGCCCGGGCGGAGTGGATGTCTACTTTGACAATGTTGGAGGTGACAT
CAGCAACGCGGTGATAAGTCAGATGAATGAGAACAGCCACATCATCCTGTGTGGTCAGATTTCTCAGTAC
AAGAGAGAGATTTACGGTATTAATTAATAAAGATAAATTTGAGCCTGGAATTTACAGCTGAGTCAGTG
GTTTAAAGAAGGAAAGCTAAAGGTCAAGGAGACCATGGCAAAGGCTTGAAAACATGGGAGTTGCATTTC
CAGTCCATGATGACAGGGGGCAACGTAGGGAAACAGATCGTCTGCATTTCAGAAGATTCTTCTCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229117 representing NM_001252626
 Red=Cloning site Green=Tags(s)

MHQ^RCKM^NEDT^GTD^YLAP^WQLA^QVAD^GGG^IGV^VEES^KHQ^KLTK^GDF^VTS^FY^WPW^QTKA^ILD^GNG^LE^KV^DP
 QL^VD^GH^LS^YFL^GAI^GMP^LT^SLIG^VQ^EK^GH^IS^AGS^NQ^TM^VV^SGA^AG^CSL^AG^QI^GH^LL^GCS^RV^VG^ICG^T
 Q^EK^CL^FL^TS^EL^GF^DA^AV^NY^KT^GN^VA^EQ^LR^EAC^PG^GV^DV^FDN^VGG^DIS^NAV^IS^QM^NEN^SH^IL^CG^QI^SQ^Y
 S^ND^VP^YPP^LPP^AVE^AI^RK^ER^NI^TR^ER^FT^VL^NY^KD^KF^EP^GI^LQ^LS^QW^FK^EG^KL^KV^KE^TM^AK^LE^NM^GV^AF
 Q^SM^MT^GG^NV^GK^QI^VC^IS^ED^SS^L

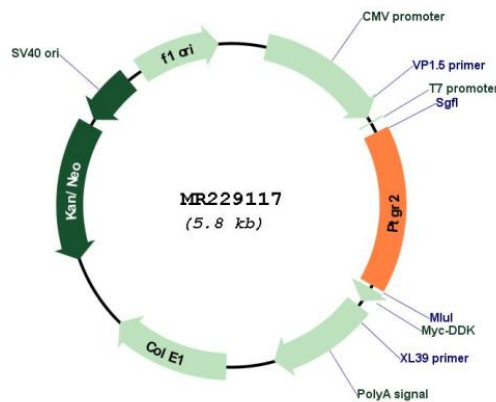
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001252626

ORF Size: 906 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_001252626.1 , NP_001239555.1
RefSeq Size:	3250 bp
RefSeq ORF:	909 bp
Locus ID:	77219
UniProt ID:	Q8VDO1
Cytogenetics:	12 D1
MW:	33 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]