

Product datasheet for **RG220107**

PBR (TSPO) (NM_000714) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PBR (TSPO) (NM_000714) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PBR
Synonyms: BPBS; BZRP; DBI; IBP; MBR; mDRC; PBR; PBS; pk18; PKBS; PTBR
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG220107 representing NM_000714
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCCCGCCCTGGGTGCCCGCCATGGGCTTACGCTGGCGCCAGCCTGGGGTGCTTCGTGGGCTCCC
 GCTTTGTCCACGGCGAGGGTCTCCGCTGGTACGCCGGCTGCAGAAGCCCTCGTGGCACCCGCCCACTG
 GGTGCTGGGCCCTGTCTGGGACGCTCTACTCAGCCATGGGGTACGGCTCCTACCTGGTCTGAAAGAG
 CTGGGAGGCTTACAGAGAAGGCTGTGGTCCCCTGGGCTCTACTGGCAGCTGGCCCTGAAGTGG
 CATGGCCCCCATCTTCTTTGGTGCCCGACAAATGGGCTGGGCTTGGTGGATCTCCTGCTGGTCAGTGG
 GCGGCGGCAGCCACTACCGTGGCTGGTACCAGGTGAGCCCGCTGGCCGCCCGCTGCTTACCCCTAC
 CTGGCCTGGCTGGCTTCGCGACCACACTCAACTACTGCGTATGGCGGGACAACCATGGCTGGCATGGG
 GACGGCGGCTGCCAGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG220107 representing NM_000714
 Red=Cloning site Green=Tags(s)

MAPPWVPAMGFTLAPSLGCFVGSRFVHGEGLRWYAGLQKPSWHPHWLGPVWGTLYSAMGYGSYLWVKE
 LGGFTEKAVVPLGLYTQQLALNWAWPPIFFGARQMGWALVDLLLVSAAAATTVAWYQVSPLAARLLYPY
 LAWLAFATTLNYCVWRDNHGHGGRRLE

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_000714

ORF Size: 507 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_000714.3](#)

RefSeq Size: 876 bp

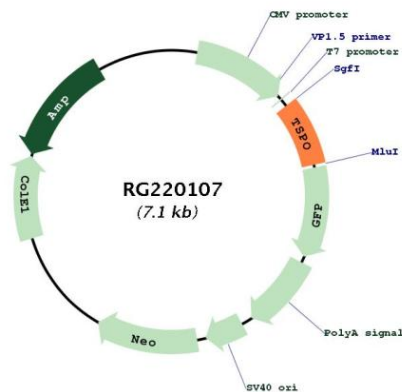
RefSeq ORF: 510 bp

Locus ID: 706

UniProt ID: [P30536](#)

Cytogenetics:	22q13.2
Domains:	TspO_MBR
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
Gene Summary:	Present mainly in the mitochondrial compartment of peripheral tissues, the protein encoded by this gene interacts with some benzodiazepines and has different affinities than its endogenous counterpart. The protein is a key factor in the flow of cholesterol into mitochondria to permit the initiation of steroid hormone synthesis. Alternatively spliced transcript variants have been reported; one of the variants lacks an internal exon and is considered non-coding, and the other variants encode the same protein. [provided by RefSeq, Feb 2012]

Product images:



Circular map for RG220107