

Product datasheet for **RG204601**

MPRA (PAQR7) (NM_178422) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MPRA (PAQR7) (NM_178422) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MPRA
Synonyms:	MPRA; mSR; PGLP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204601 representing NM_178422 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCATGGCCAGAACTCAGCCACCTCTGCCGAGTCTGCGGCAGGTATCCAGGAGCCTCAGCTAT
 CTCTGCAGCCAGAGCCTGTCTTCACGGTGGATCGAGCTGAGGTGCCGCCGCTCTTCTGGAAGCCGTACAT
 CTATGCGGGCTACCGGCCGCTGCATCAGACCTGGCGTCTCTATTTCCGCACGCTGTTCCAGCAGCACAAAC
 GAGGCCGTGAATGTCTGGACCCACCTGCTGGCGGCCCTGGTACTGCTGCTGCGGCTGGCCCTCTTTGTGG
 AGACCGTGGACTTCTGGGAGACCCACACGCCCTGCCCTCTTCATCATTGCTCCTTGCCCTTTTCACCTA
 CCTCTCCTTCAGTGCCTTGGCTCACCTCCTGCAGGCCAAGTCTGAGTTCTGGCATTACAGCTTCTTCTTC
 CTGGACTATGTGGGGGTGGCCGTGTACCACTTTGGCAGTGCCTTGGCACACTTCTACTATGCTATCGAGC
 CCGCCTGGCATGCCCAGGTGCAGGCTGTTTTCTGCCCATGGCTGCCTTTCTCGCCTGGCTTTCTGTCAT
 TGGCTCCTGCTATAACAAGTACATCCAGAAACCAGGCCTGCTGGGCCGCACATGCCAGGAGGTGCCCTCC
 GTCCTGGCCTACGCACTGGACATTAGTCTGTGGTGCATCGTATCTTCATGTCTCCGACCCACCAACGG
 ATGATCCAGCTCTTCTCTACCAAGTGCCAGGTGGTCTTCTTTCTGCTGGCTGCTGCCTTCTTCTCTAC
 CTTTCATGCCCGAGCGCTGGTTCCTGGCAGCTGCCATGTCTTCGGGCAGGGCCACCAACTTTTCCACATC
 TTCTTGGTGTGTGCACGCTGGCTCAGCTGGAGGCTGTGGCACTGGACTATGAGGCCCGACGGCCCATCT
 ATGAGCCTCTGCACACGCACTGGCCTCACAACCTTTCTGGCCTCTTCTGCTCACGGTGGGCAGCAGCAT
 CCTCACTGCATTCTCCTGAGCCAGCTGGTACAGCGCAAACCTTGATCAGAAGACCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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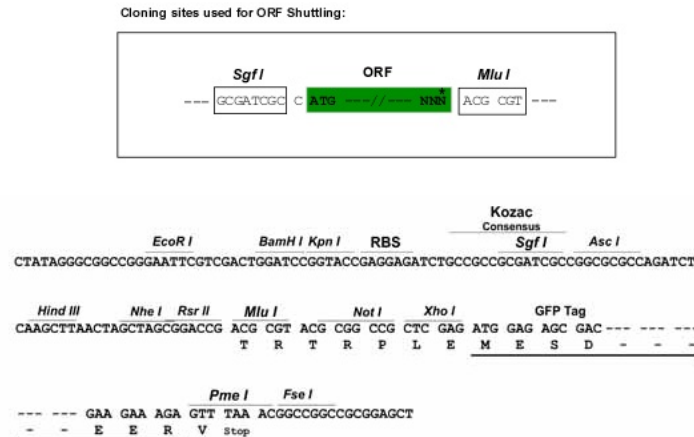
Protein Sequence: >RG204601 representing NM_178422
 Red=Cloning site Green=Tags(s)

MAMAQKLSHLLPSLRQVIQEPQLSLQPEPVFTVDRAEVPPLFWKPYIYAGYRPLHQTWRFYFRTLQFQHN
 EAVNVWTHLLAALVLLLRLALFVETVDFWGDPHALPLFIIVLASFTYLSFSALAHLLQAKSEFWHYSFFF
 LDYVGVAVYQFGSALAHFYAIEPAWHAQVQAVFLPMAAFLAWLSCIGSCYNKYIQKPGLLGRTCQEVPS
 VLAYALDISPVVHRIFMSSDPTTDDPALLYHKCQVVFLLAAFFSTFMPERWFPGSCHVFGQGHQLFHI
 FLVLCCLAQLEAVALDYEARRPIYEPLHWHPHNFSGLFLLTVGSSILTAFLLSQLVQRKLDQKTK

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_178422

ORF Size: 1038 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_178422.4](#), [NP_848509.1](#)

RefSeq Size: 3058 bp

RefSeq ORF: 1041 bp

Locus ID: 164091

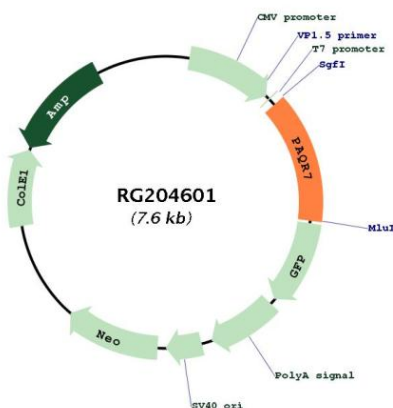
UniProt ID: [Q86WK9](#)

Cytogenetics: 1p36.11

Protein Families: Druggable Genome, Transmembrane

Gene Summary: Plasma membrane progesterone (P4) receptor coupled to G proteins (PubMed:23763432). Seems to act through a G(i) mediated pathway (PubMed:23763432). May be involved in oocyte maturation (PubMed:12601167). Involved in neurosteroid inhibition of apoptosis (PubMed:23161870). Also binds dehydroepiandrosterone (DHEA), pregnanolone, pregnenolone and allopregnanolone (PubMed:23161870).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG204601