

Product datasheet for RC204601

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:	Myc-DDK
Symbol:	MPRA
Synonyms:	MPRA; mSR; PGLP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204601 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCATGGCCAGAACTCAGCCACCTCCTGCCGAGTCTGCGGCAGGTCATCCAGGAGCCTCAGCTAT
CTCTGCAGCCAGAGCCTGTCTTCACGGTGGATCGAGCTGAGGTGCCGCCGCTCTTCTGGAAGCCGTACAT
CTATGCGGGCTACCGCCGCTGCATCAGACCTGGCGTCTATTTCCGCACGCTGTTCCAGCAGCACAAC
GAGGCCGTGAATGTCTGGACCCACCTGCTGGCGCCCTGGTACTGCTGCTGCGGCTGGCCCTCTTTGTGG
AGACCGTGGACTTCTGGGAGACCCACAGCCCTGCCCTCTTCATCATTGTCCTTGCCCTTTTCACCTA
CCTCTCCTTCAGTGCCTTGGCTCACCTCCTGCAGGCCAAGTCTGAGTTCTGGCATTACAGCTTCTTCTTC
CTGGACTATGTGGGGTGGCCGTGTACAGTTTGGCAGTGCCTTGGCACACTTCTACTATGCTATCGAGC
CCGCTGGCATGCCAGGTGCAGGCTGTTTTCTGCCATGGCTGCCTTCTCGCCTGGCTTTCTGCTGCAT
TGGCTCCTGTATAACAAGTACATCCAGAAACCAGGCCTGCTGGGCCGCACATGCCAGGAGGTGCCCTCC
GTCCTGGCCTACGCACTGGACATTAGTCTGTGGTGCATCGTATCTTCATGTCCTCCGACCCACCACGG
ATGATCCAGCTCTTCTACCAAGTCCAGGTGGTCTTCTTTCTGCTGGCTGCTGCCTTCTTCTAC
TTCTTGGTGTGTGCACGCTGGCTCAGTGGAGGCTGTGGCACTGGACTATGAGGCCCGACGGCCATCT
ATGAGCCTCTGCACAGCACTGGCCTCACAACCTTTCTGGCCTTCTCTGCTCACGGTGGGCAGCAGCAT
CCTCACTGCATTCTCCTGAGCCAGCTGGTACAGCGCAAACCTTGATCAGAAGACCAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC204601 protein sequence
Red=Cloning site Green=Tags(s)

MAMAQKLSHLLPSLRQVIQEPQLSLQPEPVFTVDRAEVPPLFWKPYIYAGYRPLHQTWRFYFRTLQFQHN
 EAVNVWTHLLAALVLLLRLALFVETVDFWGDPHALPLFIIVLASFTYLSFSALAHLLQAKSEFWHYSFFF
 LDYVGVAVYQFGSALAHFYAIEPAWHAQVQAVFLPMAAFLAWLSCIGSCYNKYIQKPLLGRTCQEVPS
 VLAYALDISPVVHRIFMSSDPTTDDPALLYHKCQVVFLLAAAFFSTFMPERWFPGSCHVFGQGHQLFHI
 FLVLCVLAQLEAVALDYEARRPIYEPLHWHPHNFSGLFLLTVGSSILTAFLLSQLVQRKLDQKTK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6379_f12.zip

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.

RefSeq: [NM_178422.6](#)

RefSeq Size: 3023 bp

RefSeq ORF: 1041 bp

Locus ID: 164091

UniProt ID: [Q86WK9](#)

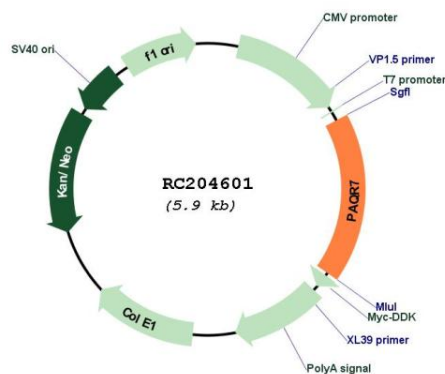
Cytogenetics: 1p36.11

Protein Families: Druggable Genome, Transmembrane

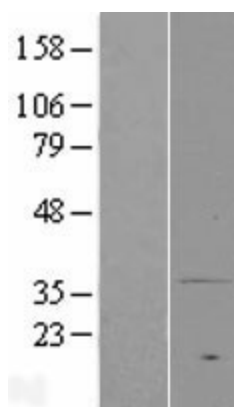
MW: 39.8 kDa

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 RC204601



Western blot validation of overexpression lysate (Cat# [LY405980]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204601 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).