

Product datasheet for RC221995

PAQR3 (NM_001040202) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PAQR3 (NM_001040202) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PAQR3
Synonyms:	RKTG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC221995 representing NM_001040202 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCATCAGAAGCTGCTGAAGAGCGGCATTACATCGAGCTGGCAGCTACCACTACTGGCCGGTCTGG
TGCCCGTGCCATCCGCCTGTACACCTACGAGCAGATCCCGGGTCCCTCAAGGACAACCCGTACATCAC
CGACGGCTACCGGCCTACCTGCCGTCCAGGCTGTGTATCAAAAGTTTGTATTTTATCTAATGAGACA
GTAACATCTGGAGTCATTTGCTGGTTTCTTTCTTCTTCCACCTGGGAATATATGACATGACATCTG
TGTTACCTCAGCAAGTGCCTCCAGAGAAGATTTGTAATTTGTCTATTTGTCTTTCTGCTTCCAGGT
CTGTATGCTTTGCTCTGTGGGCTATCATCTTTTTCTGCCATCGGTGAGAAAAACATGTGCAAGATGG
ATGGCATTAGATTATGCAGGAATTTCTATTGGAATACTGGGCTGCTATGTCTCAGGAGTATTTACGCAT
TTTATTGTAATAACTACTGGCGTCAGGTGACTTGATCACAGTGCTTGCTATGATCCTGGCAGTGTCTT
TGCGCAGATTCATCCCAATTACCTCACGCAATGGCAAAGGCTCCGTTCTATCATCTTTTGTCTGTT
TCGGGATATGGAGTGATTCCTACTCTTCACTGGGTTGGCTCAATGGAGGAATGGTGCTCCTATTGTAC
AGGACTTGCACCCCGTGAATTGTGATGTATATGATTGCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT
AGTCCCAGAGCGGTACTTCCAGGACAATAAATACTCGGATCAAGCCACCAATATGGCATATCCTT
GCAGTAGTGATTTATATTGGTGGCATCAGTCAACAGTGTATGTCATGCAGTACAGACATAGCAAGCCTT
GCCTGACTATGTTTCACATTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC221995 representing NM_001040202
Red=Cloning site Green=Tags(s)

MHQKLLKSAHYIELGSYQYWPVLVPRGIRLYTYEQIPGSLKDNPYITDGYRAYLPSRLCIKSLFILSNET
 VNIWSHLLGFFLFFTLGIYDMTSLVLPASASREDFVICSICLFCFQVCMCLCSVGYHLFSCHRSEKTCRRW
 MALDYAGISIGILGCVSGVFYAFYCNNYWRQVYLITVLAMILAVFFAQIHPNYLTQQWQRLRSIIFCSV
 SGYGVIPITLHWVWLNNGIGAPIVQDFAPRVIVMYMIALLAFLFYISKVPERYFPGQLNYLGSSHQIWHIL
 AVVMLYWWHQSTVYVMQYRHSKPCPDYVSHL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8005_b06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001040202

ORF Size: 933 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_001040202.2](#)

RefSeq Size: 3739 bp

RefSeq ORF: 936 bp

Locus ID: 152559

UniProt ID: [Q6TCH7](#)

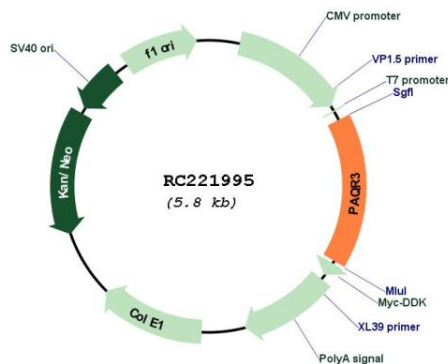
Cytogenetics: 4q21.21

Protein Families: Druggable Genome, Transmembrane

MW: 36 kDa

Gene Summary: This gene encodes a seven-transmembrane protein localized in the Golgi apparatus in mammalian cells. The encoded protein belongs to the progestin and adipoQ receptor (PAQR) family. This protein functions as a tumor suppressor by inhibiting the Raf/MEK/ERK signaling cascade. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2017]

Product images:



Circular map for RC221995