

Product datasheet for **RC216691**

PSRC1 (NM_001005290) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	PSRC1
Synonyms:	DDA3; FP3214
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC216691 representing NM_001005290
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGATTTGGAGGAAGATGTAAGGTTTATTGTGGATGAGACCTTGGACTTTGGGGGGCTGTCAACCAT
CTGACAGCCGTGAGGAGGAAGACATAACAGTGTTGGTGACTCCAGAGAAACCACTTCGACGGGGCCTCTC
CCACCGAAGTGACCCAATGCAGTGGCACCTGCCCCCAGGGTGTGAGGCTCAGCCTAGGCCCTCAGT
CCAGAGAAGCTGGAGGAGATCCTCGATGAGGCCAACGGCTGGCCGCTCAGCTGGAGCAGTGTGCCCTGC
AGGATCGGGAGAGCGCAGGCGAGGGCCTGGGGCCTCGCCGAGTGAAGCCAGTCTCGCGGGGAGACCTT
TGTGCTGAAGGATAGTCTGTCCGAGACCTGCTGCCACTGTGAACCTTTGACGCGGAGCACCCCTCC
CCAAGCAGCCTGACGCCTCGACTCCGAGTAATGATAGGAAGGGTCAGTCAGGGCTCTCCGGGCTACAT
CTGGAAAGAGGCCCTCCAACATGAAGAGGGAGTCAACCACTTGCAATCTGTTCCCTGCATCCAAAGGCC
AGCATCTTCTCCTTTACCCGATCGACTCCCCAGTCCGGGGGAGAGCCGGGCCAGTGGGAGAGCAGCA
GCCAGTGAGGAGACCAGAGCAGCAAGTTGCGGGCCTGCCAGCCGAATGCCACTCACCAGCCGAGTGTG
CCACCTGGCAGAGGTGCCCTACCTCCGATTCTCTGTCAACTCGAAAAGGGCTTCAAGACCAAGCACTG
CAGGACACAGAGTCCGGGAAAGTGGACACAAGGTTCTGTTTCCCAGCGACTAAATCTTCTGTCTATGGG
TGCCACTCGCAGCAATCTGCAGCCCCCAGGAAAGTGGCAGTCCCAGGACCTACCAGGTAAGAGATCAG
GACAGCAAGCAAGACTTCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

>RC216691 representing NM_001005290

Red=Cloning site Green=Tags(s)

MEDLEEDVRFIVDETLDFGGLSPSDSREEEDITVLVTPEKPLRRGLSHRSDPNVAPAPQGVRSLGPLS
PEKLEEILDEANRLAAQLEQCALQDRESAGEGLGPRRVKPSRRETFLVKDSPVRDLLPTVNSLTRSTPS
PSSLTPRLRSNDRKGSVRALRATSGKRPSNMKRESPTCNLFPASKSPASSPLTRSTPPVRGRAGPSGRAA
ASEETRAAKLRACQPNATHQPECATWQRCPTSGFSVNSKRASKTKHCRTQSAGKWTQGSCTPATKSSCHG
CHSQQAAPQESGSPRTYQVKRSGQARLQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8051_a10.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_001005290

ORF Size:

930 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:

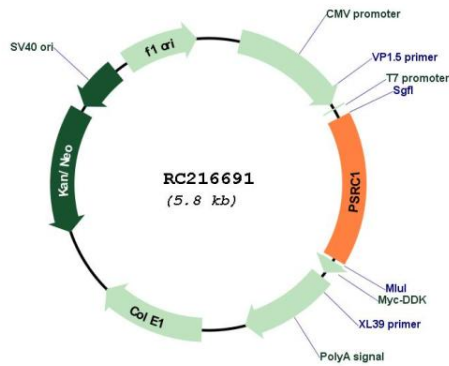
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components:

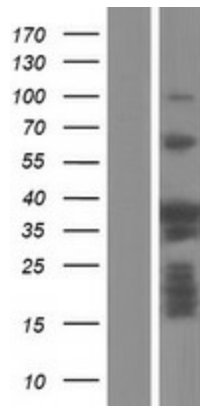
The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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:	<u>NM_001005290.3, NP_001005290.1</u>
RefSeq Size:	1621 bp
RefSeq ORF:	933 bp
Locus ID:	84722
UniProt ID:	<u>Q6PGN9</u>
Cytogenetics:	1p13.3
MW:	33.5 kDa
Gene Summary:	This gene encodes a proline-rich protein that is a target for regulation by the tumor suppressor protein p53. The encoded protein plays an important role in mitosis by recruiting and regulating microtubule depolymerases that destabilize microtubules. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Apr 2014]

Product images:



Circular map for RC216691



Western blot validation of overexpression lysate (Cat# [LY423849]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216691 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).