

Product datasheet for **RC204490**

Psoriasin (S100A7) (NM_002963) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Psoriasin (S100A7) (NM_002963) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: Psoriasin
Synonyms: PSOR1; S100A7c
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC204490 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCAACTCAAGCTGAGAGGTCCATAATAGGCATGATCGACATGTTTCACAAATACACCAGACGTG
ATGACAAGATTGACAAGCCAAGCCTGCTGACGATGATGAAGGAGAACTCCCAACTTCCTTAGTGCCTG
TGACAAAAGGGCACAATTACCTCGCCGATGTCTTTGAGAAAAAGGACAAGAATGAGGATAAGAAGATT
GATTTTCTGAGTTTCTGCTCCTTGCTGGGAGACATAGCCACAGACTACCACAAGCAGAGCCATGGAGCAG
CGCCCTGTCCGGGGCAGCCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC204490 protein sequence
Red=Cloning site Green=Tags(s)
MSNTQAERSIIGMIDMFHKYTRRDKIDKPSLLTMMKENFPNFLSACDKKGTNYLADVFEKKDKNEDKKI
DFSEFLSLLGDIATDYHKQSHGAAPCSGGSQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

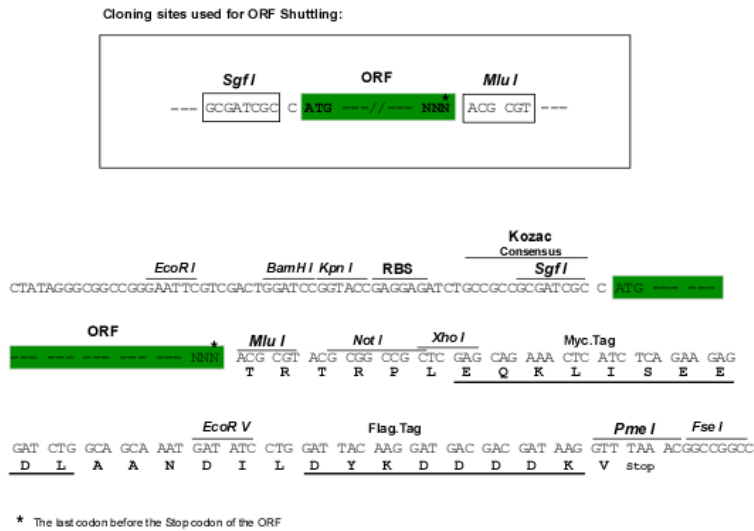
Chromatograms: https://cdn.origene.com/chromatograms/mk6325_e12.zip

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:



ACCN: NM_002963

ORF Size: 303 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

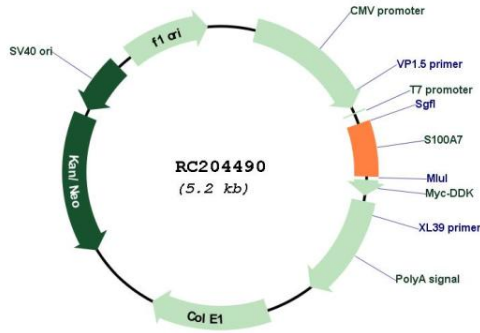
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.

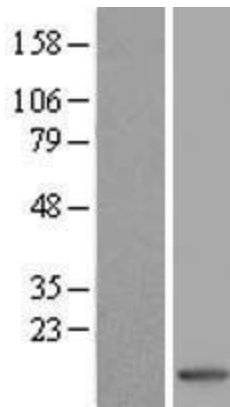
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<ol style="list-style-type: none">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_002963.4
RefSeq Size:	450 bp
RefSeq ORF:	306 bp
Locus ID:	6278
UniProt ID:	P31151
Cytogenetics:	1q21.3
Protein Families:	Secreted Protein
MW:	11.5 kDa
Gene Summary:	The protein encoded by this gene is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21. This protein differs from the other S100 proteins of known structure in its lack of calcium binding ability in one EF-hand at the N-terminus. The protein is overexpressed in hyperproliferative skin diseases, exhibits antimicrobial activities against bacteria and induces immunomodulatory activities. [provided by RefSeq, Nov 2014]

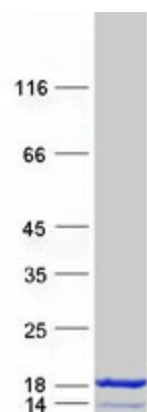
Product images:



Circular map for RC204490



Western blot validation of overexpression lysate (Cat# [LY418993]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204490 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified S100A7 protein (Cat# [TP304490]). The protein was produced from HEK293T cells transfected with S100A7 cDNA clone (Cat# RC204490) using MegaTran 2.0 (Cat# [TT210002]).