

## Product datasheet for RC209136

### PSCA (NM\_005672) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PSCA (NM\_005672) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** PSCA  
**Synonyms:** PRO232  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC209136 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAGGCTGTGCTGCTTGCCCTGTTGATGGCAGGCTTGGCCCTGCAGCCAGGCACTGCCCTGCTGTGCT  
 ACTCCTGCAAAGCCCAGGTGAGCAACGAGGACTGCCTGCAGGTGGAGAACTGCACCCAGCTGGGGGAGCA  
 GTGCTGGACCGCGCGCATCCGCGCAGTTGGCTCCTGACCGTCATCAGCAAAGGCTGCAGCTTGAAGTGC  
 GTGGATGACTCACAGGACTACTACGTGGGCAAGAAGAACATCACGTGCTGTGACACCGACTTGTGCAACG  
 CCAGCGGGGCCCATGCCCTGCAGCCGGCTGCCGCCATCCTTGCCTGCTCCCTGCACTCGGCCTGCTGCT  
 CTGGGGACCCGGCCAGCTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC209136 protein sequence  
 Red=Cloning site Green=Tags(s)

MKAVLLALLMAGLALQPGTALLCYSCAQVSNEDCLQVENCTQLGEQCWTARIRAVGLLTVISKGCSLNC  
 VDDSDQYYVGKNITCCDIDLNASGAHALQPAAILALLPALGLLLWGPQQL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6553\\_e09.zip](https://cdn.origene.com/chromatograms/mk6553_e09.zip)

**Restriction Sites:** SgfI-MluI



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## Cloning Scheme:



ACCN: NM\_005672

ORF Size: 369 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\\_005672.2](#)

RefSeq Size: 1038 bp

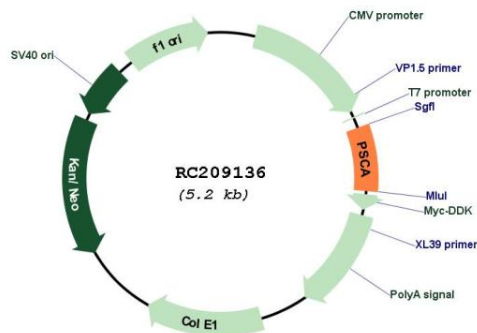
RefSeq ORF: 345 bp

Locus ID: 8000  
 UniProt ID: [O43653](#)  
 Cytogenetics: 8q24.3

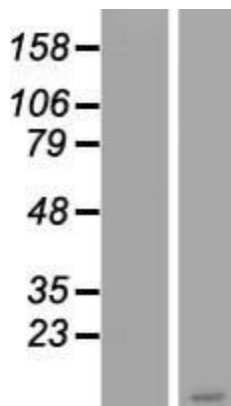
MW: 12.9 kDa

**Gene Summary:** This gene encodes a glycosylphosphatidylinositol-anchored cell membrane glycoprotein. In addition to being highly expressed in the prostate it is also expressed in the bladder, placenta, colon, kidney, and stomach. This gene is up-regulated in a large proportion of prostate cancers and is also detected in cancers of the bladder and pancreas. This gene includes a polymorphism that results in an upstream start codon in some individuals; this polymorphism is thought to be associated with a risk for certain gastric and bladder cancers. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2010]

## Product images:



Circular map for RC209136



Western blot validation of overexpression lysate (Cat# [LY417142]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209136 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).