

## Product datasheet for **RC231383**

### PSMA (FOLH1) (NM\_001193472) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PSMA (FOLH1) (NM_001193472) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PSMA
Synonyms:	FGCP; FOLH; GCP2; GCPII; mGCP; NAALAD1; NAALAdase; PSM; PSMA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RC231383 representing NM\_001193472  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

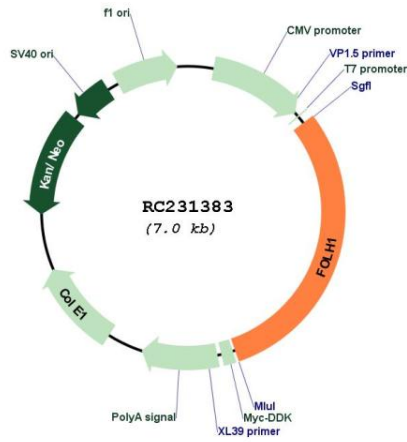
ATGACTGCAGGATCTAGCTATCCATTGTTTCTGGCCGCTATGCGTGCACCTGGGTGTCTGGCAGAGAGGC  
 TGGGGTGGTTTATAAAATCCTCCAATGAAGCTACTAACATTACTCCAAAGCATAATATGAAAGCATT  
 GGATGAATTGAAAGCTGAGAACATCAAGAAGTTCTTATATAATTTTACACAGATACCACATTTAGCAGGA  
 ACAGAACAAAACCTTCAGCTTGCAAAGCAAATCAATCCCAGTGGAAAGAATTTGGCCTGGATTCTGTTG  
 AGCTAGCACATTATGATGTCCTGTTGCTACCCAAATAAGACTCATCCCACTACATCTCAATAATTA  
 TGAAGATGGAAATGAGATTTTCAACACATCATTATTTGAACCACCTCCTCCAGGATATGAAATGTTTCG  
 GATATTGTACCACCTTTCAGTGTCTTCTCCTCAAGGAATGCCAGAGGGCGATCTAGTGTATGTTAACT  
 ATGCACGAAGTGAAGACTTCTTTAAATTTGGAACGGGACATGAAAATCAATTGCTCTGGGAAAATGTAAT  
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 ATTCTCTACTCCGACCCTGCTGACTACTTTGCTCCTGGGGTGAAGTCTATCCAGATGGTTGGAATCTTC  
 CTGGAGGTGGTGTCCAGCGTGGAAATATCCTAAATCTGAATGGTGCAGGAGACCCCTCACACCAGGTTA  
 CCCAGCAAATGAATATGCTTATAGGCGTGGAAATGCAGAGGCTGTTGGTCTTCCAAGTATCCTGTTTCAT  
 CCAATTGGATACTATGATGCACAGAAGCTCTAGAAAAATGGGTGGCTCAGCACCACAGATAGCAGCT  
 GGAGAGGAAGTCTCAAAGTGCCTACAATGTTGGACCTGGCTTTACTGAAAACCTTTTCTACAAAAAAGT  
 CAAGATGCACATCCACTCTACCAATGAAGTGACAAGAAATTTACAATGTATAGTACTCTCAGAGGAGCA  
 GTGGAACCAGACAGATATGTCATTCTGGGAGGTCACCGGACTCATGGGTGTTGGTGGTATTGACCCTC  
 AGAGTGGAGCAGCTGTTGTTTCATGAAATTTGAGGAGCTTTGGAACACTGAAAAGGAAGGGTGGAGACC  
 TAGAAGAACAATTTTGTGCAAGCTGGGATGCAGAAGAATTTGGTCTTCTTGGTCTACTGAGTGGGCA  
 GAGGAGAATTCAGACTCCTTCAAGAGCGTGGCGTGGCTTATATTAATGCTGACTCATCTATAGAAGGAA  
 ACTACACTCTGAGAGTTGATTGTACACCCTGATGTACAGCTTGGTACACAACCTAACAAAAAGAGCTGAA  
 AAGCCCTGATGAAGGCTTTGAAGGCAAATCTCTTATGAAAGTTGGACTAAAAAAGTCTTCCCCAGAG  
 TTCAGTGGCATGCCAGGATAAGCAAATGGGATCTGAAATGATTTTGAGGTGTTCTTCCAACGACTTG  
 GAATTGCTTCAGGCAGAGCACGGTATACTAAAAATGGGAAACAAACAAATTCAGCGCTATCCACTGTA  
 TCACAGTGTCTATGAAACATATGAGTTGGTGGAAAAGTTTATGATCCAATGTTTAAATATCACCTCACT  
 GTGGCCAGGTTTCGAGGAGGGATGGTGTGAGCTAGCCAATTCATAGTGTCCCTTTTGATTGTCGAG  
 ATTATGCTGTAGTTTTAAGAAAGTATGCTGACAAAATCTACAGTATTTCTATGAAACATCCACAGGAAAT  
 GAAGACATACAGTGTATCATTGATTCACTTTTTTCTGCAGTAAAGAATTTTACAGAAAATGCTTCCAAG  
 TTCAGTGAAGACTCCAGGACTTTGACAAAAGCAAGCATGTATCTATGCTCCAAGCAGCCACAACAAGT  
 ATGCAGGGGAGTCATTCCAGGAATTTATGATGCTCTGTTTGATATTGAAAGCAAAGTGGACCCTTCCA  
 GGCCTGGGAGAAAGTGAAGAGACAGATTTATGTTGCAGCCTTCACAGTGCAGGCAGCTGCAGAGACTTTG  
 AGTGAAGTAGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001193472.3</a>
<b>RefSeq ORF:</b>	2115 bp
<b>Locus ID:</b>	2346
<b>UniProt ID:</b>	<a href="#">Q04609</a>
<b>Cytogenetics:</b>	11p11.12
<b>Protein Families:</b>	Druggable Genome, Protease, Transmembrane
<b>MW:</b>	79.2 kDa
<b>Gene Summary:</b>	<p>This gene encodes a type II transmembrane glycoprotein belonging to the M28 peptidase family. The protein acts as a glutamate carboxypeptidase on different alternative substrates, including the nutrient folate and the neuropeptide N-acetyl-l-aspartyl-l-glutamate and is expressed in a number of tissues such as prostate, central and peripheral nervous system and kidney. A mutation in this gene may be associated with impaired intestinal absorption of dietary folates, resulting in low blood folate levels and consequent hyperhomocysteinemia. Expression of this protein in the brain may be involved in a number of pathological conditions associated with glutamate excitotoxicity. In the prostate the protein is up-regulated in cancerous cells and is used as an effective diagnostic and prognostic indicator of prostate cancer. This gene likely arose from a duplication event of a nearby chromosomal region. Alternative splicing gives rise to multiple transcript variants encoding several different isoforms. [provided by RefSeq, Jul 2010]</p>

Product images:



Circular map for RC231383