

Product datasheet for **SC117383**

PSMA (FOLH1) (NM_004476) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSMA (FOLH1) (NM_004476) Human Untagged Clone
Tag:	Tag Free
Symbol:	PSMA
Synonyms:	FGCP; FOLH; GCP2; GCPII; mGCP; NAALAD1; NAALAdase; PSM; PSMA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC117383 sequence for NM_004476 edited (data generated by NextGen Sequencing)

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ATGTGGAATCTCCTTCACGAAACCGACTCGGCTGTGGCCACCGCGCGCCGCCGCGCTGG
CTGTGCGCTGGGGCGCTGGTGTGGCGGGTGGCTTCTTTCTCCTCGGCTTCTCTTCGGG
TGGTTTATAAAATCCTCCAATGAAGCTACTAACATTACTCCAAAGCATAATATGAAAGCA
TTTTTGGATGAATTGAAAGCTGAGAACATCAAGAAGTCTTATATAATTTTACACAGATA
CCACATTTAGCAGGAACAGAACAAAACCTTCAGCTTGCAAAGCAAATTCATCCCAGTGG
AAAGAATTTGGCCTGGATTCTGTTGAGCTAGCACATTATGATGTCTGTTGCTCTACCCA
AATAAGACTCATCCCACTACATCTCAATAAATTAATGAAGATGGAATGAGATTTTCAAC
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TTCAGTGTCTTCTCCTCAAGGAATGCCAGAGGGCGACTAGTGTATGTTAACTATGCA
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GTAATTGCCAGATATGGGAAAGTTTTAGAGGAAATAAGGTTAAAAATGCCCAGCTGGCA
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TCCTATCCAGATGGTTGGAATCTTCTGGAGGTGGTGTCCAGCGTGGAAATATCCTAAAT
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TTACCAGACAGGCCTTTTTATAGGCATGTATCTATGCTCCAAGCAGCCACAACAAGTAT
GCAGGGGAGTCATTCCCAGGAATTTATGATGCTCTGTTTGGATATTGAAAGCAAAGTGGAC
CCTTCCAAGGCCTGGGGAGAAGTGAAGAGACAGATTTATGTTGCAGCCTTCACAGTGCAG
GCAGCTGCAGAGACTTTGAGTGAAGTAGCCTAA
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Clone variation with respect to NM_004476.1

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_004476 unedited CAAATTTTGTATACGACTACTATAGGGCGGCCGGAATTCGCACGAGGCTGGACCCCGGT CTGGAGCGAATCCAGCCTGCAGGGCTGATAAGCGAGGCATTAGTGAGATTGAGAGAGAC TTTACCCCGCCGTGGTGGTTGGAGGGCGCGCAGTAGAGCAGCAGCACAGGCGCGGGTCCC GGGAGGCCGGCTCTGCTCGCGCCGAGATGTGGAATCTCCTTCACGAAACCGACTCGGCTG TGGCCACCGCGCCGCCCGCGCTGGCTGTGCGCTGGGGCGCTGGTGTGGCGGGTGGCT TCTTCTCCTCGCTTCTCCTTCGGGTGGTTTATAAAATCTCCAATGAAGCTACTAACA TTACTCCAAAGCATAAATATGAAAGCATTTTTGGATGAATTGAAAGCTGAGAACATCAAGA AGTTCTTATATAATTTTACACAGATACCACATTTAGCAGGAACAGAAACAAAATTTACAGC TTGCAAAGCAAATTCATCCCAGTGAAAGAATTTGGCCTGGATTCTGTTGAGCTAGCAC ATTATGATGTCCTGTTGCTACCCAAATAAGACTCATCCCAACTACATCTCAATAATTA ATGAAGATGAAATGAGATTTTCAACACATCATTATTTGAACCACCTCCTCCAGGATATG AAAATGTTTCGGATATTGTACCACCTTTTCAGTCTTCTCCTCAGGGATGCCAGAGG GCGATCTAGTGTATGTTAACTATGCACGAACTGAAGACTTCTTTAATTGGGACGGGACA TANAATCAANTGCTCTGGGAAAATTGTTATTGCCAGATATGGGAAAGATTTTCAGAGGAA AATAAGGNTANAATGCCAGCTGGCAGGNGCCAAAGGAGTCATTCTACTCCGACCCCTG CTGACTACTTTGCTCCTGGGGTGAAGTCTT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_004476 unedited CGCGGCCCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTTTTTTTTTATAAAATTCAACTTTTTTCAAATATACCAATTTTAAAATTTATC AATATACCCATTACGATTTTTTTTGGAGGACATACCACACAAATTCATACGGATTCTTT AAAAAATCCTTTTAGGCTACTTCACTCAAAGTCTTTCAGCTGCCTGCACTGGGAAGGCT GCAACAAAATCTGGCTTTTCACTTCTCCCCAGGCCTTGGAAAGGGCCACTTTGCTTTCA ATATCAAACAGAGCATCATAAATTCCTGGGAATGACTCCCTGCATACTTGGTGGGGCTG CTTGGAGCATAAATGACATGCCTATAAAAAGGCCTGTCTGGGAACCCTAATGGATCAAAA AATGCTCTTTCCAAAACATGAGTGGACCATTATCATTCTTAATACTATGGGGGGGCTT TTGGCAAAGTCTGGAGTCTCTCACTGAACTTGGAAAGCAATTTCTGAAAATTTCTTACT GCAGAAAAAGTGAATCAAATGATACACTGGATGTCTTCAATTTCTGGGGATGTTTCATA GAAATACTGGAGATTTTGGCAGCATACTTTCTTAAAACACAGCATAATCTCGACAATCA AAAGGGAGCACTATGGAATTGGCTAGCTTCAACACCATCCCTCCTCGAACCTGGGCCACA GGGGAGGGGTATTTAAACATTGGATCTAAAATTTTCCCCCACCTAATATGGTTCATAG ACCCTGGGGAACAGTGTATAACCCCTGAAATTGTTGGTTTCCCAATTTAAATACCGGGCC TTGGCTGAAACAATCCAGGGGTTGGAAAAACCCCAAAATATTTCCAGACCCAATTGGTT TACCTGGGAAGCCCCGAACCTTTGGGGAAGGATTTTTTAAACCACTTATAAGAATTGGA</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_004476
Insert Size:	2600 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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.
RefSeq:	NM_004476.1 , NP_004467.1
RefSeq Size:	2653 bp
RefSeq ORF:	2253 bp
Locus ID:	2346
UniProt ID:	Q04609
Cytogenetics:	11p11.12
Domains:	PA, TFR_dimer, Peptidase_M28
Protein Families:	Druggable Genome, Protease, Transmembrane
Gene Summary:	<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> <p>Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>