

Product datasheet for **RG231234**

PSMA (FOLH1) (NM_001193473) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSMA (FOLH1) (NM_001193473) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FOLH1
Synonyms:	FGCP; FOLH; GCP2; GCP1I; mGCP; NAALAD1; NAALAdase; PSM; PSMA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG231234 representing NM_001193473 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTGGCTCAGCACCACCAGATAGCAGCTGGAGAGGAAGTCTCAAAGTGCCCTACAATGTTGGACCTG
GCTTTACTGGAACTTTTCTACACAAAAGTCAAGATGCACATCCACTCTACCAATGAAGTGACAAGAAT
TTACAATGTGATAGTACTCTCAGAGGAGCAGTGAACCCAGACAGATATGTCATTCTGGGAGGTCACCGG
GACTCATGGGTGTTTGGTGTATTGACCCTCAGAGTGGAGCAGCTGTTGTTTCAAGAAATTGTGAGGAGCT
TTGGAACACTGAAAAGGAAGGGTGGAGACCTAGAAGAACAATTTGTTTGAAGCTGGGATGCAGAAGA
ATTTGGTCTTCTGGTCTACTGAGTGGGAGAGGAAATTCAGACTCCTTCAAGAGCGTGGCGTGGCT
TATATTAATGCTGACTCATCTATAGAAGGAAACTACACTCTGAGAGTTGATTGTACACCGCTGATGTACA
GCTTGGTACACAACCTAACAAAAGAGCTGAAAAGCCCTGATGAAGGCTTTGAAGGCAAACTCTTTATGA
AAGTTGGACTAAAAAAGTCTTCCCGAGGTTTCAGTGGCATGCCAGGATAAGCAAAATTTGGGATCTGGA
AATGATTTTGGAGTGTCTTCCAACGACTTGAATGCTTCAGGCAGAGCACGGTATACTAAAAATTTGGG
AAACAAACAAATTCAGCGGCTATCCACTGTATCACAGTGTCTATGAAACATATGAGTTGGTGGAAAAGTT
TTATGATCCAATGTTAAATATCACCTCACTGTGGCCAGGTTTCGAGGAGGGATGGTGTGAGCTAGCC
AATCCATAGTGCTCCCTTTTGTGTCGAGATTATGCTGTAGTTTAAAGAAAGTATGCTGACAAAATCT
ACAGTATTTCTATGAAACATCCACAGGAAATGAAGACATACAGTGTATCATTTGATTCACTTTTTCTGC
AGTAAAGAATTTTACAGAAATTGCTTCCAAGTTTCAGTGGAGACTCCAGGACTTTGACAAAAGCAACCCA
ATAGTATTAAGAATGATGAATGATCAACTCATGTTTCTGGAAAGAGCATTATTGATCCATTAGGGTTAC
CAGACAGGCCTTTTATAGGCATGTCTATGCTCCAAGCAGCCACAACAAGTATGCAGGGGAGTCATT
CCCAGGAATTTATGATGCTCTGTTTGTATTGAAAGCAAAGTGGACCCTTCAAGGCTGGGGAGAAGTG
AAGAGACAGATTTATGTTGCAGCCTTACAGTGCAGGCAGCTGCAGAGACTTTGAGTGAAGTAGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG231234 representing NM_001193473
Red=Cloning site Green=Tags(s)

MGGSAPPDSSWRGSLKVPYNVGPFTGNFSTQKVKMHIHSTNEVTRIYNVIGTLRGAVEPDRYVILGGHR
 DSWVFGGIDPQSGAAVHEIVRSFGTLKKEGWRPRRTILFASWDAEEFGLLGSTEWAEENSRLQERGVA
 YINADSSIEGNYTLRVDCTPLMYSLVHNLTKELKSPDEGFEGKSLYESWTKKSPSEFSGMPRISKLGSG
 NDFEVFFQRLGIASGRARYTKNWETNKFSGYPLYHSVYETYELVEKFYDPMFKYHLTVAQVRGGMVFELA
 NSIVLPFDCRDYAVVLRKYADKIYISIMKHPQEMKTYSVSFDLSLFSAVKNFTEIASKFSERLQDFKSNP
 IVLRMMNDQLMFLERAFIDPLGLPDRPFYRHVIYAPSSHNYAGESFPGIYDALFDIESKVDPSKAWGEV
 KRQIYVAaftvqaaaetlseva

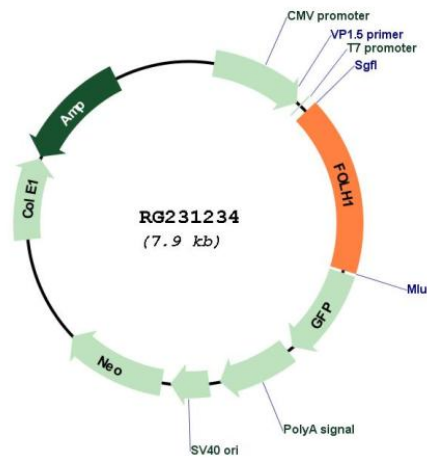
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001193473

ORF Size:	1326 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:	<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_001193473.3
RefSeq Size:	2266 bp
RefSeq ORF:	1329 bp
Locus ID:	2346
UniProt ID:	Q04609
Cytogenetics:	11p11.12
Protein Families:	Druggable Genome, Protease, Transmembrane
Gene Summary:	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]