*cyno*PSMA/FOLH1 VersaClone cDNA

Catalog Number: RDC2791

Specifications:

Gene:	*cyno*FOLH1B
Accession:	XP_005579379
Insert size:	2266bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

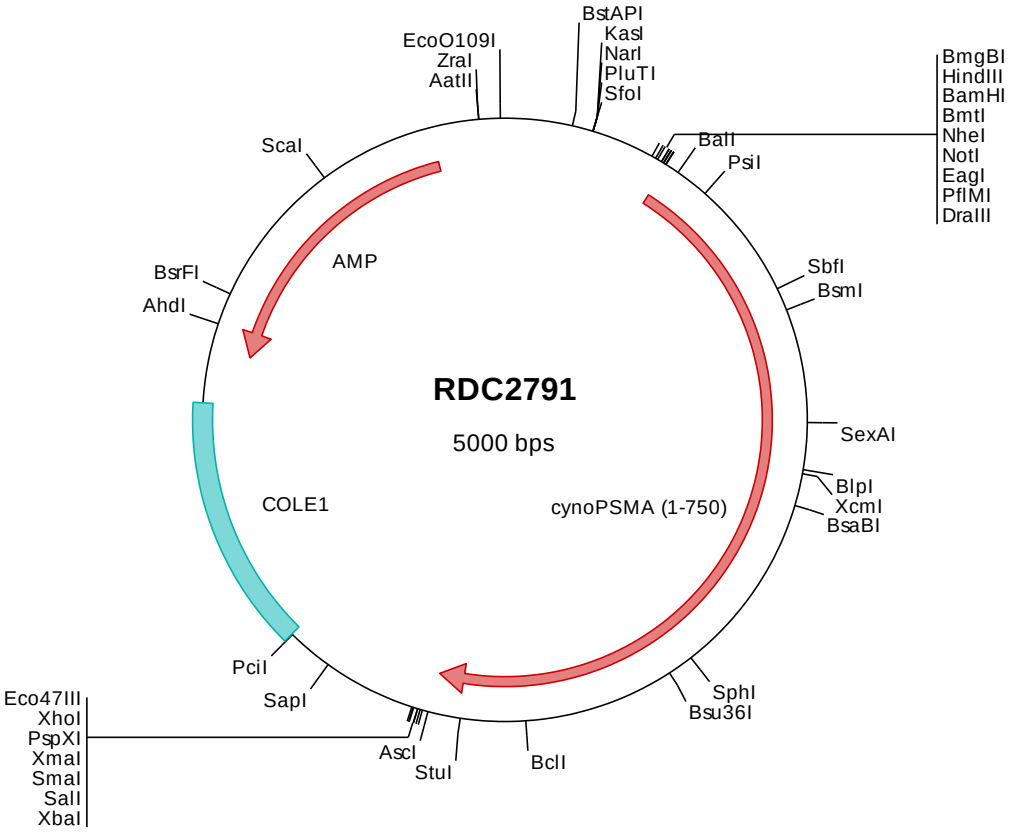
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*cyno*PSMA/FOLH1 cDNA Plasmid

FOLH1B folate hydrolase 1B [*Macaca fascicularis* (crab-eating macaque)]

Summary:

PSMA is a type II transmembrane zinc metallopeptidase that is most highly expressed in the nervous system, prostate, kidney, and small intestine. In the brain, PSMA hydrolyzes the neurotransmitter N-acetyl-Asp-Glu to produce glutamate, another neurotransmitter. Inhibition of brain PSMA activity is considered to be a promising approach for the treatment of neurological disorders associated with glutamate excitotoxicity, such as stroke, chronic pain, and amyotrophic lateral sclerosis. Intestinal PSMA hydrolyzes folylpoly-gamma -glutamates, facilitating the uptake of folate.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

R&D SYSTEMS
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> RDC2791 Plasmid DNA Sequence

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 101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
 401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atgtggaatc tcctgcacga aaccgactcg gctgtggcca ccgcgcgccg
 501  tccgcgctgg ctgtgcgctg gggcactggt gctggcgggt ggcttctttc tcctcggctt cctcttcgga tggtttataa aatcctccag tgaagctact
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 701  caggaacaga acaaaacttt caacttgcaa agcaaattca atcccagtgg aaagaatttg gcctggattc tgttgagcta actcattatg atgtcctgtt
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 901  tatgaaaatg tttcggatat tgtaccacct ttcagtgctt tctctcctca aggaatgcca gagggcgatc tagtgtatgt taactatgca cgaactgaag
1001  acttctttaa attggaacgg gacatgaaaa tcaattgctc tgggaaaatt gtaattgcca gatatgggaa agttttcaga ggaaataagg ttaaaaatgc
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1701  gtttgcaagc tgggatgcag aagaatttgg tcttcttggt tctactgaat gggcagagga gaattcaaga ctccttcaag agcgtggcgt ggcttatatt
1801  aatgctgatt cgtctataga aggaaactac actctgagag ttgattgtac accactgatg tacagcttgg tatacaacct aacaaaagag ctggaaagcc
1901  ctgatgaagg ctttgaaggc aaatctcttt atgaaagttg gactaaaaaa agtccttccc ccgagttcag tggcatgccc aggataagca aattgggatc
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2301  acatccacag gaaatgaaga catacagtgt atcatttgat tcacttttct ctgcagtaaa gaattttaca gaaattgctt ccaagttcag tgagagactc
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2501  gacctttta taggcatgtc atctatgctc caagcagcca caacaagtat gcaggggagt cattcccagg aatttatgat gctctgtttg atatcgaaag
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2801  aattgttatc cgctcacaat tccacacaac atacgagccg gaagcataaa gtgtaaagcc tggggtgcct aatgagtgag ctaactcaca ttaattgcgt
2901  tgcgctcact gcccgctttc cagtcgggaa acctgtcgtg ccagctgcat taatgaatcg gccaacgcgc ggggagaggc ggtttgcgta ttgggcgctc
3001  ttccgcttcc tcgctcactg actcgctgcg ctcggtcgtt cggctgcggc gagcggtatc agctcactca aaggcggtaa tacggttatc cacagaatca
3101  ggggataacg caggaaagaa catgtgagca aaaggccagc aaaaggccag gaaccgtaaa aaggccgcgt tgctggcgtt tttccatagg ctccgccccc
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> RDC2791 Translated Insert Sequence

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 201  viarygkvfr gnkvknaqla gatgvilysd padyfapgvk sypdgwnlpg ggvqrgniln lngagdpltp gypaneyayr rgiaeavglp sipvhpigyy
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 701  agesfpgiyd alfdieskvd psqawgevkr qisiatftvq aaaetlseva
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