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Product datasheet for RC209090

Phosphoserine phosphatase (PSPH) (NM_004577) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phosphoserine phosphatase (PSPH) (NM_004577) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Phosphoserine phosphatase
Synonyms:	PSP; PSPHD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC209090 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C

ATGGTCTCCCACTCAGAGCTGAGGAAGCTTTTCTACTCAGCAGATGCTGTGTGTTTTGATGTTGACAGCA CGGTCATCAGAGAAGAAGGAATCGATGAGCTAGCCAAAATCTGTGGCGTTGAGGACGCGGTGTCAGAAAT GACACGGCGAGCCATGGGCGGGGCAGTGCCTTTCAAAGCTGCTCTCACAGAGCGCTTAGCCCTCATCAG CCCTCCAGGGAGCAGGTGCAGAGACTCATAGCAGAGCAACCCCCACACCTGACCCCCGGCATAAGGGAGC TGGTAAGTCGCCTACAGGAGCGAAATGTTCAGGTTTTCCTAATATCTGGTGGCTTTAGGAGTATTGTAGA GCATGTTGCTTCAAAGCTCAATATCCCAGCAACCAATGTATTTGCCAATAGGCTGAAATTCTACTTTAAC GGTGAATATGCAGGTTTTGATGAGACGCAGCCAACAGCTGAATCTGGTGGAAAAGGAAAAGTGATTAAAC TTTTAAAGGAAAAATTTCATTTTAAGAAAATAATCATGATTGGAGATGGTGCCACAGGATATGGAAGCCTG TCCTCCTGCTGATGCTTTCATTGGAGTTTTGGAGGAAATGTGATCAGGCAACAAGTCAAGGATAACGCCAAA TGGTATATCCACGATTTTGAGAGCTGCTGGGAGAACTGGAACAGTCAAGGATAACGCCAAA TGGTATATCCACTGATTTTGTAGAGCTGCTGGGAGAACTGGAAGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG**GTTTAA**



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Service Phosphoserine phosphatase (PSPH) (NM_004577) Human Tagged ORF Clone – RC209090

Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Priofly warter the tube and then do a guide prior (loss than 5000yg) to concentrate the lignid.
	 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:	<u>NM 004577.4</u>
RefSeq Size:	2142 bp
RefSeq ORF:	678 bp
Locus ID:	5723
UniProt ID:	<u>P78330</u>
Cytogenetics:	7p11.2
Protein Families:	Druggable Genome, Phosphatase
Protein Pathways:	Glycine, serine and threonine metabolism, Metabolic pathways
MW:	25 kDa
Gene Summary:	The protein encoded by this gene belongs to a subfamily of the phosphotransferases. This encoded enzyme is responsible for the third and last step in L-serine formation. It catalyzes magnesium-dependent hydrolysis of L-phosphoserine and is also involved in an exchange reaction between L-serine and L-phosphoserine. Deficiency of this protein is thought to be linked to Williams syndrome. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC209090

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Western blot validation of overexpression lysate (Cat# [LY417896]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209090 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified PSPH protein (Cat# [TP309090]). The protein was produced from HEK293T cells transfected with PSPH cDNA clone (Cat# RC209090) using MegaTran 2.0 (Cat# [TT210002]).

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