

Product datasheet for RC214837

PGPEP1 (NM_017712) Human Tagged ORF Clone

Product data:

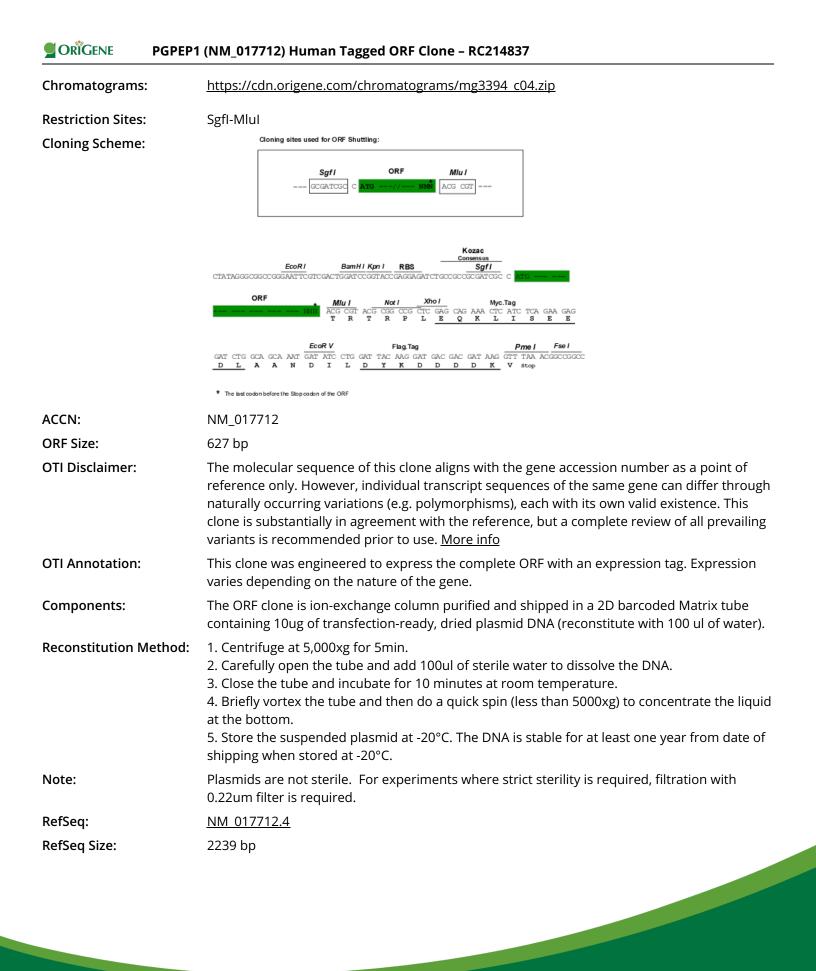
OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	PGPEP1 (NM_017712) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PGPEP1
Synonyms:	PAP-I; Pcp; PGI; PGP; PGP-I; PGPI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC214837 representing NM_017712 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGAGCAGCCGAGGAAGGCGGTGGTAGTGACGGGATTTGGCCCTTTTGGGGAACACACCCGTGAACGCCA GTTGGATTGCAGTTCAGGAGCTAGAAAAGCTAGGCCTTGGCGACAGCGTGGACCTGCATGTGTACGAGAT TCCGGTTGAGTACCAAACAGTCCAGAGACTCATCCCCGCCCTGTGGGAGAAAGCACAGTCCACAGCTGGTG GTGCATGTGGGGGTGTCAGGCATGGCGACCACAGTCACACTGGAGAAATGTGGACACAACAAGGGCTACA AGGGGCTGGACAACTGCCGCTTTTGCCCCGGCTCCCAGTGCTGCGTGGAGGACGGGCCTGAAAGCATTGA CTCCATCATCGACATGGATGCTGTGTGCAAGCGAGTCACCACGTTGGGCCTGGATGTGTCGGTGACCATC TCGCAGGATGCCGGCAGATATCTCTGCGACCATTTACCTACACCTCTTTGTACCAGAGTCACGGTCGAT CAGCCTTCGTCCACGTGCCCCCCACTGGGGAAGCCGTACAACGAGGCCAGCGGCCTGAAAGCATGC GTCCATCATTGAGAAGTGCCCCCCCCCACTGGGCACGCCGGACCAGCTGGGCAGGGCCCGAT CAGCCTTCGTCCACGTGCCCCCCCCCC
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG GTTTAA
Protein Sequence:	<pre>>RC214837 representing NM_017712 Red=Cloning site Green=Tags(s)</pre>
	MEQPRKAVVVTGFGPFGEHTVNASWIAVQELEKLGLGDSVDLHVYEIPVEYQTVQRLIPALWEKHSPQLV VHVGVSGMATTVTLEKCGHNKGYKGLDNCRFCPGSQCCVEDGPESIDSIIDMDAVCKRVTTLGLDVSVTI SQDAGRYLCDFTYYTSLYQSHGRSAFVHVPPLGKPYNADQLGRALRAIIEEMLDLLEQSEGKINYCHKH
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV



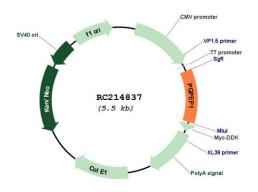
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	PGPEP1 (NM_017712) Human Tagged ORF Clone – RC214837
RefSeq ORF:	630 bp
Locus ID:	54858
UniProt ID:	<u>Q9NXJ5</u>
Cytogenetics:	19p13.11
Protein Families:	Druggable Genome, Protease
MW:	23 kDa
Gene Summary:	The gene encodes a cysteine protease and member of the peptidase C15 family of proteins. The encoded protein cleaves amino terminal pyroglutamate residues from protein substrates including thyrotropin-releasing hormone and other neuropeptides. Expression of this gene may be downregulated in colorectal cancer, while activity of the encoded protein may be negatively correlated with cancer progression in colorectal cancer patients. Activity of the encoded protease may also be altered in other disease states including in liver cirrhosis, which is associated with reduced protease activity, and in necrozoospermia, which is associated with elevated protease activity. [provided by RefSeq, Jul 2016]
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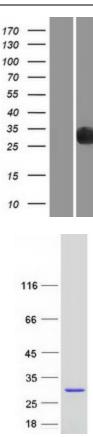
Product images:



Circular map for RC214837

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Western blot validation of overexpression lysate (Cat# [LY413619]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214837 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified PGPEP1 protein (Cat# [TP314837]). The protein was produced from HEK293T cells transfected with PGPEP1 cDNA clone (Cat# RC214837) using MegaTran 2.0 (Cat# [TT210002]).

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