

Product datasheet for **SC125852**

PGPEP1 (BC042138) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PGPEP1 (BC042138) Human Untagged Clone
Tag:	Tag Free
Symbol:	PGPEP1
Synonyms:	5-oxoprolyl-peptidase; FLJ20208; MGC10812; Pcp; PGP; PGP-I; PGPI; pyroglutamyl-peptidase I; pyrrolidone-carboxylate peptidase
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for BC042138 edited

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GAGGCTGCAGCGGCAGCAGCTGTGCGCCAGTCGCAACAGAAGCAGGTCCGAGGCACAGC
CCGATCCCGCCATGGAGCAGCCGAGGAAGGCGGTGGTAGTGACGGGATTTGGCCCTTTTG
GGGAACACACCCGTGAACGCCAGTTGGATTGCAGTTCAGAGATGGGATCTCACTATATTGC
CTGGCTGGTCTTGAACCTCCGGGCTCAAATGATCCTTCCACCTCGGCCTCCCAAAGAAG
CTGGGATTATAGGTGTGAGCCACCGAGCCCTGCCATCAGGAGCTAGAAAAGCTAGGCCTT
GGCGACAGCGTGGACCTGCATGTGTACGAGATTCCGGTTGAGTACCAAACAGTCCAGAGA
CTCATCCCCGCCCTGTGGGAGAAGCACAGTCCACAGCTGGTGGTGCATGTGGGGGTGTCA
GGCATGGCGACCACAGTCACTGGAGAAATGTGGACACAACAAGGGCTACAAGGGGCTG
GACAACTGCCGCTTTTGGCCCGGCTCCCAGTGTGCGTGGAGGACGGGCCTGAAAGCATT
GACTCCATCATCGACATGGATGCTGTGCAAGCGAGTCACCACGTTGGGCCTGGATGTG
TCGGTGACCATCTCGCAGGATGCCGGCAGATATCTCTGCGACTTTACCTACTACACCTCT
TTGTACCAGAGTCACGGTCGATCAGCCTTCGTCCACGTGCCCCACTGGGGAAGCCGTAC
AACCGCGACCAGCTGGGCAGGGCACTGAGAGCCATCATTGAGGAGATGTTGGACCTCCTG
GAGCAGTCAGAGGGCAAAATCAACTATTGCCACAACACTGAGGGACGCTCAGGTCTCCT
AAGACCTCATCCTGCTGGGGACCCACGAGGGGACATCCACCCTCTGGGGTGTGGCCAGG
AAAAGACAAGCTTTCAGCTTGGGGATCCGATCTGGAAGAGAGATTCTGATCTGCCACC
TCCTCTTCTCCTTCTCTACAAAAGCTCCGTTGATTGAGGGAAAGTGGTAAAAATTTT
TTTTCTCCATTTTCTCCTGCATCTGGGGACACAGTCCCGTGACCAGGGAGGCCAGC
CTGGGAGGTCCAGATGCCAGGGAGAATCTTGGTCTGGTGAATCCATGAGCTGCGATACC
ACGGCTGGGGCCATATGTTACCTGCTTTCCTGTCCGTTGGTGAAGGAATTTAGAAATTC
ATTTTATATCCAAGACTGGCTTTTACCAAATTTAAAAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for BC042138 unedited CCCCAGTCAGGATTTGTATACGACTTATATAGGGCGGCCGGAATTCGCACGAGGGAG GCTGCAGCGGCAGCAGCTGTCGCGCCAGTCGCAACAGAAGCAGGTCCGAGGCACAGCCCG ATCCCGCCATGGAGCAGCCGAGGAAGGCGGTGGTAGTGACGGGATTTGGCCCTTTGGGG AACACACCGTGAACGCCAGTTGGATTGCAGTTCAGAGATGGGATCTCACTATATTGCCCT GGCTGGTCTTGAACCTCCGGGCTCAAATGATCCTTCCACCTCGGCCTCCCAAAGAAGCTG GGATTATAGGTGTGAGCCACCGAGCCCTGCCATCAGGAGCTAGAAAAGCTAGGCCTTGGC GACAGCGTGGACCTGCATGTGTACGAGATTCCGGTTGAGTACCAAACAGTCCAGAGACTC ATCCCGCCCTGTGGGAGAAGCACAGTCCACAGCTGGTGGTGCATGTGGGGGTGTCAGGC ATGGCGACCACAGTCACACTGGAGAAATGTGGACACAACAAGGGCTACAAGGGGTGGAC AACTGCCCTTTTCCCCGGCTCCAGTCTGCGTGGAGGACGGGCCTGAAAGCATTGAC TCCATCATCGACATGGATGCTGTGTGCAAGCGAGTCACCACGTTGGCCTGGATGTGTCG GTGACCATCTCGCAGGATGCCGGCAGATATCTCTGCGACTTTACCTACTACACCTCTTTG TACCAGAGTCACGGTCGATCAGCCTTCGTCCACGTGCCCCACTGGGAAGCCGTACAAC GCGGACCAGCTGGCAGGGCACTGAGAGCCATCATTGAGGAGATGTTGGACTCCTGGAGC AGTCAGAGGGCAAATCACTATTGCCACAAAAGTGGGGAC
Restriction Sites:	Please inquire
ACCN:	BC042138
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:	BC042138.1 , AAH42138.1
RefSeq Size:	1251 bp
Locus ID:	54858
Cytogenetics:	19p13.11
Protein Families:	Druggable Genome, Protease

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]