

Product datasheet for **SC117505**

PGP9.5 (UCHL1) (NM_004181) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PGP9.5 (UCHL1) (NM_004181) Human Untagged Clone
Tag:	Tag Free
Symbol:	PGP9.5
Synonyms:	HEL-117; HEL-S-53; NDGOA; PARK5; PGP 9.5; PGP9.5; PGP95; SPG79; Uch-L1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117505 sequence for NM_004181 edited (data generated by NextGen Sequencing) ATGCAGCTCAAGCCGATGGAGATCAACCCCGAGATGCTGAACAAAGTGTCTCCCGGCTG GGGGTCGCCGCCAGTGGCGCTTCGTGGACGTGCTGGGGCTGGAAGAGGAGTCTCTGGGC TCGGTGCCAGCGCCTGCCTGCGCGCTGCTGCTGCTGTTTCCCCTCACGGCCCAGCATGAG AACTTCAGGAAAAAGCAGATTGAAGAGCTGAAGGGACAAGAAGTTAGTCTAAAGTGATC TTCATGAAGCAGACCATTGGGAATTCCTGTGGCACAATCGGACTTATTCACGCAGTGGCC AATAATCAAGACAACTGGGATTTGAGGATGGATCAGTTCTGAAACAGTTTCTTTCTGAA ACAGAGAAAATGTCCCCTGAAGACAGAGCAAAATGCTTTGAAAAGAATGAGGCCATACAG GCAGCCCATGATGCCGTGGCACAGGAAGCCAATGTCGGGTAGATGACAAGGTGAATTTTC CATTTTATTCTGTTTAAACAGTGGATGGCCACCTCTATGAACTTGATGGACGAATGCCT TTTCCGGTGAACCATGGCGCCAGTTCAGAGGACACCCTGCTGAAGGACGCTGCCAAGGTC TGCAGAGAATTCACCGAGCGTGAGCAAGGAGAAGTCCGCTTCTCTGCCGTGGCTCTCTGC AAGGCAGCCTAA Clone variation with respect to NM_004181.4



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004181 unedited
 ACAGTCAGATGTGTATCCGACTCATATGGGCGGCCGCGCAATCGGCACGAGGCCTCGTG
 CGAATTCGGCAGCAGAGGCTTCCCTAGGCTATTTCTGCCGGGCGCTCCGCGAAGATGCAGCT
 CAAGCCGATGGAGATCAACCCCGAGATGCTGAACAAAGTGTGTCCCGGCTGGGGTTCG
 CGGCCAGTGGCGCTTCGTGGACGTGCTGGGGCTGGAAGAGGAGTCTCTGGGCTCGTGCC
 AGCGCTGCCTGCGCGCTGCTGCTGCTGTTTCCCCTCACGGCCAGCATGAGAATTCAG
 GAAAAAGCAGATTGAAGAGCTGAAGGGACAAGAAGTTAGTCTAAAGTGTACTTTCATGAA
 GCAGACCATGGGAATTCCTGTGGCACAATCGGACTTATTCACGCAAGTGGCCAATAATCA
 AGACAAACTGGGATTTGAGGATGGATCAGTTCTGAAACAGTTTCTTTCTGAAACAGAGAA
 AATGTCCCTGAAGACAGAGCAAATGCTTTGAAAAGAATGAGGCCATACAGGCAGCCCA
 TGATGCCGTGGCACAGGAAGGCCAATGTCGGGTAGATGACAAGGTGAATTTCCATTTTAT
 TCTGTTTAAACAGTGGATGGCCACCTCTATGAACTTGTGACGAATGCCTTTTCCGGT
 GAACCATGGCGCCAGTTCAGAGGACACCCTGCTGCAGGACGCTGCCAAGGTCTGCAGAGA
 ATTCACCGAGCGTGAGCAAGGAGACAGTCGCTTCTGCCGTGGCTCTCTGCAGGCAGCC
 TAATGCTCTGTGGGAGGGACTTTGCTGAGTTCCCCTCTTCCATTACATGAAAATATATA
 CCCCCCATGCAGTCTAGAATGCTTCAGTACTTGTGAAACACAGCTGATCTTCTGATCTG
 CAGACACGCATTCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004181 unedited
 AGGAGAGGCACTGGGAGGGGTACAGGGATGCCACCCGGGATCTGTTTCAGGAAACAGCTA
 TGACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAACCAAACAACAAAAAGTTTTTTCCTTTT
 GAGGACAAACAATTAACCCCTCCAAGTTTTAACTTACAACAAAAACCAAAGTTCC
 CTTTAAAGCGTTAAATATCGGATACAAAACATACCTGGGAAAAATGCTTACCATTGGA
 AGCTCACACCACAATGGCCAGGGGACAACCTGGGCCCTCTGCTTGGGCTTAAATGCCTGG
 GTGGGGCTAAGGGGAAAGCCTTTCTACAAAACAAAAACAGCTGGGTTTCAAGTACT
 GAAGCATTTTAACTGGATGGGGGGTATATATTTTCATGTTGAAGGGAAGAGGGGAAAT
 CACCAAAGTCCCTCCACAGAGCATTAGGCTGCCTTGCAAAGAGCCACGGNAAAGAAGCG
 GACTTCTCCTTGCTCACGCTCGGGGAATCTCTGAAAACCTGGNAGGTTCTTAAACAGG
 TGTCTCTGACTGGCCATGGTTTACCGGAAAAGCATTGCCCCATCAGTTCATAAAGGGG
 CCATCCCGTTGTTACAAATAAAATGAAATCCCCTGTTTTTACCAAATTGCCTTCTGT
 GCCACGGATATGGGCTGCTGATGCCTATTCTTTAAAACATTTGCTTGGCTCAGGGATTT
 TCTTTGTTAAAAAACTGTTAAAACGACCTCTAAACCAATTTGTTTGATTGGCCACGGG
 AAAAACCATGGCCAGATTCCAAGGGCGCTTAAGAAACCTAAGACAACCTTTGCCCTACT
 TTATTGCTTTCGAACCCAGCGCCGAGGAAAAAAAAGGCAGGGGTTGGCAACCAA
 TTTTACCCAATTCAAGCCTGGCGACCACGAAATTTTT

Restriction Sites:

NotI-NotI

ACCN:

NM_004181

Insert Size:

1180 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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:

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_004181.3](#), [NP_004172.2](#)

RefSeq Size: 1110 bp

RefSeq ORF: 672 bp

Locus ID: 7345

UniProt ID: [P09936](#)

Cytogenetics: 4p13

Domains: Peptidase_C12

Protein Families: Druggable Genome, Protease

Protein Pathways: Parkinson's disease

Gene Summary: The protein encoded by this gene belongs to the peptidase C12 family. This enzyme is a thiol protease that hydrolyzes a peptide bond at the C-terminal glycine of ubiquitin. This gene is specifically expressed in the neurons and in cells of the diffuse neuroendocrine system. Mutations in this gene may be associated with Parkinson disease.[provided by RefSeq, Sep 2009]