

Product datasheet for **RC201803**

PGP9.5 (UCHL1) (NM_004181) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PGP9.5 (UCHL1) (NM_004181) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	UCHL1
Synonyms:	HEL-117; HEL-S-53; NDGOA; PARK5; PGP 9.5; PGP9.5; PGP95; SPG79; Uch-L1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC201803 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGCTCAAGCCGATGGAGATCAACCCGAGATGCTGAACAAAGTGTGTCCCGGCTGGGGTTCGCCG
GCCAGTGGCGCTTCGTGGACGTGCTGGGCTGGAAGAGGAGTCTCTGGGCTCGGTGCCAGCGCCTGCCTG
CGCGCTGCTGCTGTTTCCCCTCACGGCCAGCATGAGAACTTCAGGAAAAAGCAGATTGAAGAGCTG
AAGGGACAAGAAGTTAGTCCTAAAGTGTACTTCATGAAGCAGACCATGGGAATTCCTGTGGCACAATCG
GACTTATTCACGCAGTGGCCAATAATCAAGACAACTGGGATTTGAGGATGGATCAGTTCTGAAACAGTT
TCTTTCTGAAACAGAGAAAATGTCCCCTGAAGACAGAGCAAAATGCTTTGAAAAGAAATGAGGCCATACAG
GCAGCCCATGATGCCGTGGCACAGGAAGGCCAATGTCCGGTAGATGACAAGGTGAATTTCCATTTTATTC
TGTTTAAACACGTGGATGGCCACCTCTATGAACTTGATGGACGAATGCCTTTCCGGTGAACCATGGCGC
CAGTTCAGAGGACACCCTGCTGAAGGACGCTGCCAAGTCTGCAGAGAATTCACCGAGCGTGAGCAAGGA
GAAGTCCGCTTCTGCCGTGGCTCTGCAAGGCAGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC201803 protein sequence
 Red=Cloning site Green=Tags(s)

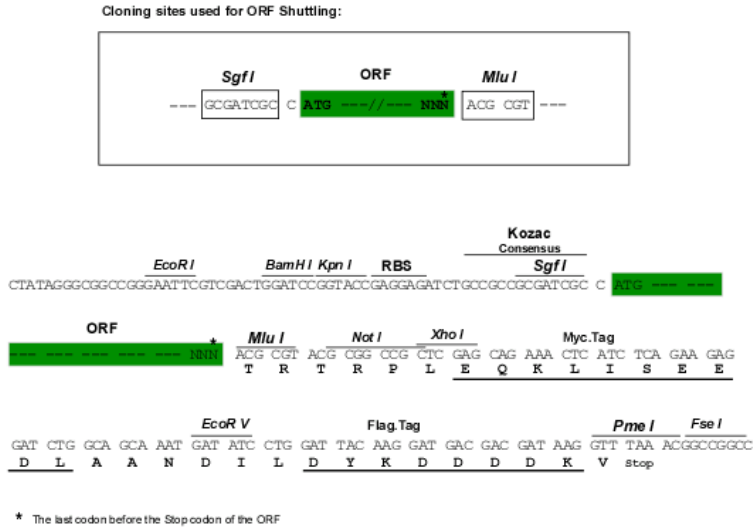
MQLKPMEINPEMLNKVLSRLGVAGQWRFVDVLGLEEESLGSVPAPACALLLFLPLTAQHENFRKKQIEEL
 KGQEVSPKVVYFMKQTIGNSCGTIGLIHAVANNQDKLGFEDGSVLKQFLSETEKMPEDRAKCFEKNEAIQ
 AAHDAVAQEGQCRVDDKVNHFHILFNNVDGHLYELDGRMPFPVNHGASSEDLLKDAAKVCREFTEREQG
 EVRFSVALCKAA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

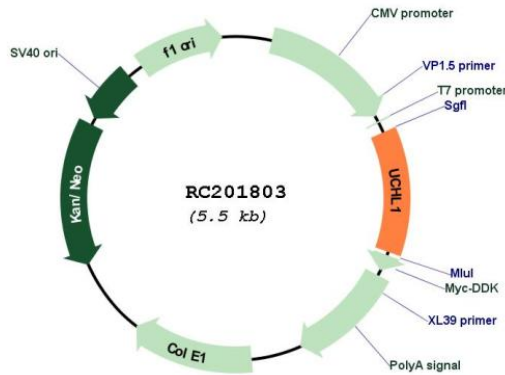
Chromatograms: https://cdn.origene.com/chromatograms/mk6084_a03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_004181

ORF Size: 669 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

RefSeq: [NM_004181.5](#)

RefSeq Size: 1141 bp

RefSeq ORF: 672 bp

Locus ID: 7345

Domains: Peptidase_C12

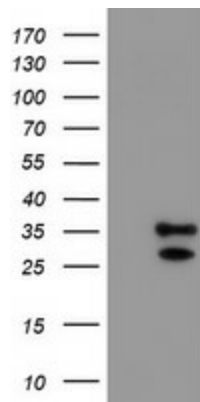
Protein Families: Druggable Genome, Protease

Protein Pathways: Parkinson's disease

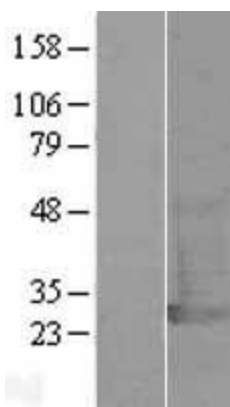
MW: 24.8 kDa

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]

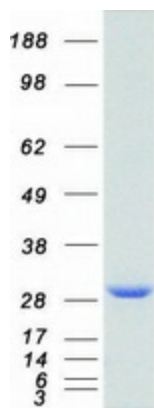
Product images:



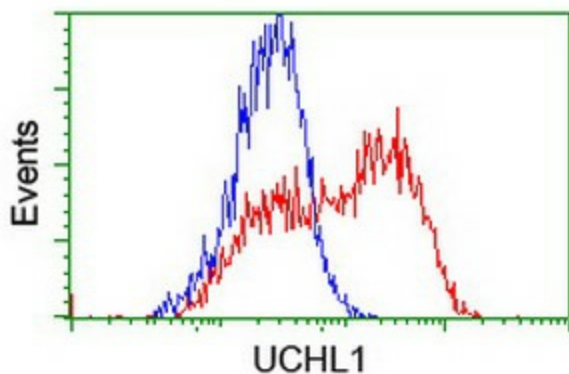
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY UCHL1 (RC201803, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-UCHL1 ([TA504289]). Positive lysates [LY401345] (100ug) and [LC401345] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY401345]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201803 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified UCHL1 protein (Cat# [TP301803]). The protein was produced from HEK293T cells transfected with UCHL1 cDNA clone (Cat# RC201803) using MegaTran 2.0 (Cat# [TT210002]).



HEK293T cells transfected with either RC201803 overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-UCHL1 antibody ([TA504289]), and then analyzed by flow cytometry.