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Product datasheet for RG201803

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:	TurboGFP
Symbol:	PGP9.5
Synonyms:	HEL-117; HEL-S-53; NDGOA; PARK5; PGP 9.5; PGP9.5; PGP95; SPG79; Uch-L1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG201803 representing NM_004181
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGCTCAAGCCGATGGAGATCAACCCCGAGATGCTGAACAAAGTGCTGTCCCGGCTGGGGGTCGCCG
GCCAGTGGCGCTTCGTGGACGTGCTGGGGCTGGAAGAGGAGTCTCTGGGCTCGGTGCCAGCGCCTGCCTG
CGCGCTGCTGCTGCTGTTTCCCCTCACGGCCCAGCATGAGAACTTCAGGAAAAAGCAGATTGAAGAGCTG
AAGGGACAAGAAGTTAGTCCTAAAGTGTACTTCATGAAGCAGACCATTGGGAATTCCTGTGGCACAATCG
GACTTATTCACGCAGTGGCCAATAATCAAGACAAACTGGGATTTGAGGATGGATCAGTTCTGAAACAGTT
TCTTTCTGAAACAGAGAAAATGTCCCCTGAAGACAGAGCAAAATGCTTTGAAAAGAATGAGGCCATACAG
GCAGCCCATGATGCCGTGGCACAGGAAGGCCAATGTCGGGTAGATGACAAGGTGAATTTCCATTTTATTC
TGTTTAACAACGTGGATGGCCACCTCTATGAACTTGATGGACGAATGCCTTTTCCGGTGAACCATGGCGC
CAGTTCAGAGGACACCCTGCTGAAGGACGCTGCCAAGGTCTGCAGAGAATTCACCGAGCGTGAGCAAGGA
GAAGTCCGCTTCTCTGCCGTGGCTCTCTGCAAGGCAGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

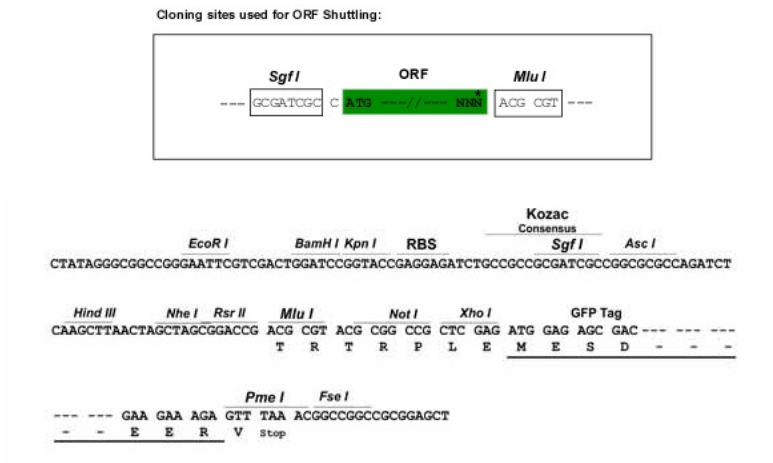
>RG201803 representing NM_004181
Red=Cloning site Green=Tags(s)

MQLKPMEINPEMLNKVLSRLGVAGQWRFVDVLGLEEESLGSVPAPACALLLLFPLTAQHENFRKKQIEEL
KGQEVSPKVYFMKQTIGNSCGTIGLIHAVANNQDKLGFEDGSVLKQFLSETEKMSPEDRAKCFEKNEAIQ
AAHDAVAQEGQCRVDDKVNFHFILFNNVDGHLYELDGRMPFPVNHGASSEDTLLKDAAKVCREFTEREQG
EVRFSAVALCKAA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004181

ORF Size: 669 bp

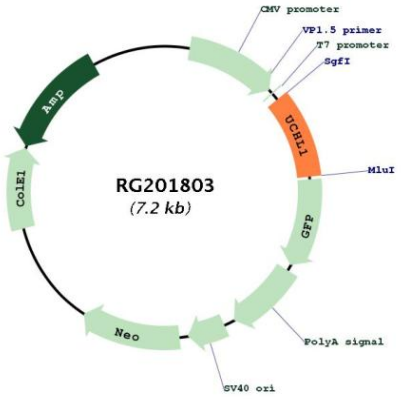
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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.

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_004181.5
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]

Product images:



Circular map for RG201803