

Product datasheet for **RG209002**

PATL1 (NM_152716) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PATL1 (NM_152716) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PATL1
Synonyms:	hPat1b; Pat1b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG209002 representing NM_152716
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCTACAGTGTCTGTATTAGAATATGCTTTGCCTCAGAGGCCCCCCCAGGGTCCAGAAGATGATCGGG
 ACCTTTCTGAACGAGCATTACCAAGGCGGTCAACTTCACCTATCATTGGCAGTCCTCCTGTTAGAGCTGT
 CCCCATAGGCACCCACCTAAACAGATGGCTGTACCCAGCTTCACCCAACAGATTCTGTGTCCGAAGCCT
 GTCATGTTCCGGCCCCAATGCCACCTCGTTATCCTGCTCCCTATGGTGAGAGGATGTCTCCAAACCAGC
 TCTGCAGTGTCCGAACCTTCCCTCCTGGGTACCCCTTTTCTCCTAGTGTTCCTGTTCTCAGCCC
 CCTCCAGAGAGCACAGCTTCTGGAGGAGCACAGCTACAGCCTGGACGGATGTCTCCAGCCAGTTTGA
 CGGGTCCCTGGATTTGTTGGTAGTCCACTTGTGCCATGAATCCCAAGTGTCTACAAGGGCGAGTTGGG
 AGATGCTTCCCCAGCACCAGGCTTCCGTGCCTTCTTTAGTGTCCACCCTCCGCTACACCACCTCCACA
 GCAGCACCTCCTGGCCCAGGACCCACCTGCAAAACCTAAGATCTCAGGCCCAATGTTTAGACCGGAC
 ACAACTCACCTCCATCCACAGCACCGTCGACTTTCATCAGAGACAGCAACAGAATAGAAGTCAGCATC
 GGAATCTCAATGGTGC GGAGATAGAGGAAGTCAACGGAGCAGTCATCAAGATCATCTCCGAAAGGATCC
 ATATGCCAATCTCATGTTGCAGCGGAAAAGGATTGGGTCTCTAAAATCCAGATGATGCAACTGCAAAGC
 ACTGATCCCTACCTGGATGATTTTTATTACCAGAATTACTTTGAAAACTGGAGAAAAGTGTGAGTGTCTG
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 CCATGCTTACTGAGTCCCTTCTCTCTCTCTCTATCATCTTCCATCAGTGAGTATCACCAGCCTTTTGC
 GACAGCTAATGAACCTACCTCAAAGTGCAGCTACACCAGCACTCTCAATCCTCACCTCACTGCTGTGCT
 CCAGAACAAGTTTGGCCTGTCACTGCTCCTCATCTCCTGAGCCGTGGTGAAGACCTACAGAGTTCAGAC
 CCTGCTACAGAATCAACACAAAATAATCAGTGGACGGAGGTGATGTTTCATGGCAACACGAGAAGTCTGC
 GGATCCCAAGCAGCCCTGGCCAAGCCAATCTCTATACCTACAAACCTAGTGTCCCTCTTTCTCGCTA
 TGTTGACCGGCAGAAAAGTGAAGTGTGGAGACAAAAGTGCAGCTAGTTCAGGGGATACGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG209002 representing NM_152716
 Red=Cloning site Green=Tags(s)

MPTVSVLEYALPQRPPQGPEDDRDLSERALPRRSTSPIIGSPPVRAVPIGTTPPKQMAVPSFTQQILCPKP
 VHVRPPMPPRYPAPYGERMSPNQLCSVPNSSLLGHPFPPSVPPVLSPLQRAQLLGGALQPGRMSPSQFA
 RVPGFVGSPLAAMNPKLLQGRVQMLPPAPGFRAFFSAPPSATPPPQHPGPHLQNLRSQAPMFRPD
 TTHLHPQHRLLHQRRQQNRSQHRNLNGAGDRGSHRSSHQDHLRKDPYANLMLQREKDWVSKIQMMQLQS
 TDPYLDFFYYQNYFEKLEKLSAAEEIQGDGPKKERTKLIPTQVAKLEHAYKPVQFEGLKLTVSSVNNP
 RKMIDAVVTSRSEDETKEKQVRDKRRKTLVIEKTYSLLLDVEDYERRYLLSLEEERPALMDDRKHKIC
 SMYDNLRGKLPQERPSDDHFVQIMCIRKGRMVARILPFLSTEQAADILMTTARNLPFLIKKDAQDEVL
 PCLLSPFSLLLYHLPSVITSLLRQLMNL PQSAATPALSNPHLTAVLQNKFGLSLLLILLSRGEDLQSSD
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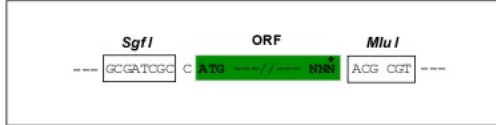
TRTRPLE - GFP Tag - V

Restriction Sites:

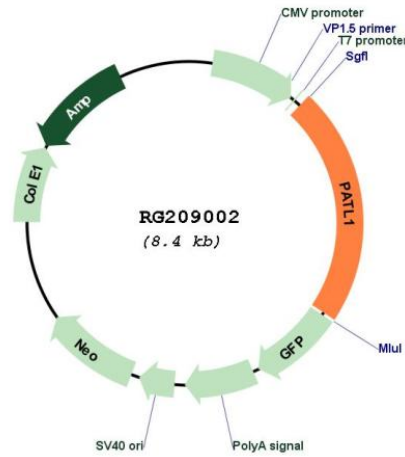
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_152716
 ORF Size: 1881 bp

OTI Disclaimer:	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:	<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:	NM_152716.1 , NP_689929.1
RefSeq Size:	3636 bp
RefSeq ORF:	2313 bp
Locus ID:	219988
UniProt ID:	Q86TB9
Cytogenetics:	11q12.1
Protein Pathways:	RNA degradation
Gene Summary:	RNA-binding protein involved in deadenylation-dependent decapping of mRNAs, leading to the degradation of mRNAs. Acts as a scaffold protein that connects deadenylation and decapping machinery. Required for cytoplasmic mRNA processing body (P-body) assembly. In case of infection, required for translation and replication of hepatitis C virus (HCV). [UniProtKB/Swiss-Prot Function]