

Product datasheet for **RG226641**

PATL2 (NM_001145112) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PATL2 (NM_001145112) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PATL2
Synonyms:	hPat1a; OOMD4; Pat1a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG226641 representing NM_001145112
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAATTGCCTTGAAGGGCCAGGTAAGACCTGTGGCCCTTGGCTTCTGAGGAGGAGCTGGTGTCTGCCT
 GCCAGTTGAAAAAGAAGAGAATGAAGGGGAGGAGGAAGAGGAGGAGGACGAGGAGGATCTGGA
 CCCAGATCTGGACCCAGACCTAGAGGAGGAAGAGAATGATCTTGGGGATCCAGCTGTACTTGGTGTCTGTC
 CACAACACCCAGAGAGCTCTGCTTAGCTCCCCTGGAGTCAAGGCCCTGGTATGCTGGGAATGCTACTTGT
 CCTCCTTGCATTTTCTGTGGCAGACCTTGGACTACCTGTCGCCCATCCCTTTCTGGCCTACATTTCCAG
 CACCAGCTCTCCAGCACAGCACTTTGGACCTCGGCTGCCCTCACCAGACCAACTCTCTTCTGCAGCCTG
 CTGACCTCGTGGCCCCCTAGGTTCACTCATCTGACCCAGCTCCACCCTCGGCACCAACGAATCTTGCAGC
 AGCAGCAGCATAGTCAAACACCAAGTCCCCAGCCAAGAAGCCTTGGTCTCAGCAGCCAGACCCCTATGC
 TAACCTCATGACCAGAAAAGAGAAGGACTGGGTGATAAAAGTGCAGATGGTGCAGCTGCAGAGTCAAAA
 CCCCGCCTGGATGACTACTATTACCAGGAATATTACCAGAAGCTAGAGAAGAAGCAGGCAGACGAAGAGC
 TACTTGGACGAAGAAACCGGGTTGAGTCCCTCAAGCTGGTAACGCCTTACATTCGGAAGGCAGAGGCTTA
 TGAGTCCGTGGTCCGAATCGAGGGTTCCCTGGGCCAGGTAGCTGTGTCGACATGCTTCAGCCCTCGCCGA
 GCTATTGATGCGGTACCCCATGGAACCTCAAGAGCAGGATATAGAAGTGCAGCAGTCAAGGCTTCGGG
 TATTATACCGGATTGAGAAGATGTTCTTCACTTACTAGAAAAGAGGAAAGGCTGGAAGTATAGGCCTCC
 ACCGCCCTGCTTTTCTGAGCAGCAAAGCAACAGGTTGAGAAGCTTCCAGACCTTAAAGACCCAGGAG
 CAGAACAACCTGGAAGAGGCAGCAGATGGCTTCTGCAGGTGCTCTCTGTGAGGAAGGGGAAGCCCTGG
 TGGCCCGGCTGCTCCCTTCTGCCAGGATCAGGCTGTACCATTCTTTGGCTATCACCACCATCT
 GCCCTCCTGGTCCGGAGGGATGTGGCTGATCAGGCCCTACAAATGTTATTCAAACCTCTGGGCAATGT
 ATTAGTCACTTGACCCTCCACGAACCTCCAAGGACTTCAGGGATTAACGCTGTTGCCACCTGGCTCCT
 CAGAGCGGCCAGTACCCTGGTCTCAGAATCAGTTTGGAAATATCTTTGCTCTATGCCCTGCTGAGCCA
 TGGGGAGCAACTGGTATCGCTGCATTCTCCCTAGAGGAACCAACAGTGACCATACAGCTTGGACAGAC
 ATGGTGGTTCTGATTGCCTGGGAGATAGCCAAATGCCTACAGCCTCTCTGGCAGAACCCTAGCTTTCC
 CCAGCAACCTACTTCCCCTGTTCTGTACCACGTGGACAACAATTGGTTCAGCAGCTGGAGGCCAGGAT
 GGAGTTTGCCTGGATTAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG226641 representing NM_001145112
 Red=Cloning site Green=Tags(s)

MNCLGPGKTCGPLASEEELVSACQLEKEEENEHEEEEEDEEDLDPDLDPDLEEEENDLGDPAVLGAV
 HNTQRALLSSPGVKAPGMLGMSLASHFLWQTLDYLSPIPFWPTFPSTSSPAQHFGRPLPSPDPTLFCSL
 LTSWPPRFSHLTQLHPRHQRILQQQHSQTPSPPAKKPWSQQPDPYANLMTRKEKDWIKVQMVQLQSAK
 PRLDDYQQEYQKLEKKQADEELLGRRNRVESLKLVTPIPKAEAYESVVRIEGSLGQVAVSTCFSPRR
 AIDAVPHGTQEIQDIEAASSQRLRVLRYRIEKMFLQLEIEEGWKYRPPPPCFSEQQSNQVEKLFQTLKTQE
 QNNLEEAADGFLQVLSVRK GKALVARLLPFLPQDQAVTILLAITHHLPLLVRDQALQMLFKPLGKC
 ISHLTLHELLQGLQGLTLLPPGSSERPVTVVLQNFQGISLLYALLSHGEQLVSLHSSLEEPSNDHTAWTD
 MVVLIaweIAQMPTASLAELAFPSNLLPLFCHHVdKQLVQQLearMEFAWIY

TRTRPLE – GFP Tag – V

Restriction Sites:

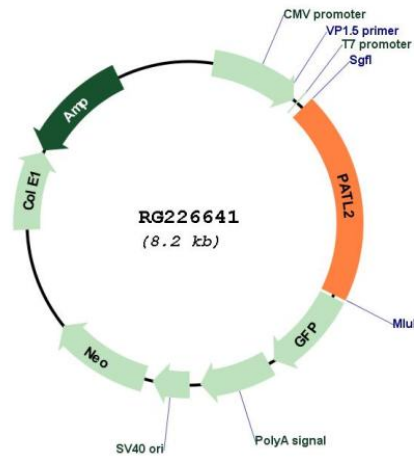
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_001145112
ORF Size:	1629 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_001145112.1 , NP_001138584.1
RefSeq Size:	1967 bp
RefSeq ORF:	1632 bp
Locus ID:	197135
UniProt ID:	C9JE40
Cytogenetics:	15q21.1
Gene Summary:	RNA-binding protein that acts as a translational repressor.[UniProtKB/Swiss-Prot Function]