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Product datasheet for RG234190

ATRNL1 (NM_001276282) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATRNL1 (NM_001276282) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ATRNL1
Synonyms:	ALP; bA338L11.1; bA454H24.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>RG234190 representing NM_001276282
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGACTGGGGGCCGGGCCCGCACTGGTACCCCGCAGCCAGCGGCCCCGGGGGTGTGGAGGGCTCGGC
CGGCGGGCGGCGGCGGCGGGGGCGCCTCCTCCTGGCTGCTGGACGGGAACAGCTGGCTGCTGTGCTATGG
CTTCCTCTACCTGGCGCTCTACGCGCAGGTGTCCCAGTCCAAGCCGTGCGAGAGGACCGGCTCCTGCTTC
TCGGGCCGCTGTGTCAACTCCACCTGCCTCTGCGACCCGGGCTGGGTGGGGGACCAGTGCCAGCACTGCC
AGGGCAGGTTCAAGTTAACAGAACCTTCTGGATATTTAACAGATGGCCCAATTAACTATAAATATAAAAC
TAAATGTACTTGGCTCATTGAAGGCTATCCAAATGCAGTGTTAAGATTAAGATTCAATCATTTTGCTACA
GAATGTAGCTGGGATCATATGTATGTTTATGATGGAGATTCAATATATGCACCTTTAATAGCTGTACTTA
GTGGTTTGATAGTCCCTGAAATAAGGGGCAATGAAACTGTGCCTGAAGTTGTTACTACATCTGGCTATGC
ACTGTTACATTTTTTTAGTGATGCTGCGTATAATCTAACTGGTTTCAACATTTTCTATTCAATCAATTCT
TGTCCTAACAATTGCTCTGGTCATGGGAAGTGTACAACTAGTGTCTCTGTTCCAAGTCAAGTATATTGTG
AATGTGATAAATACTGGAAGGGTGAAGCTTGTGATATTCCTTACTGTAAAGCCAATTGCGGCAGTCCAGA
TCACGGTTACTGTGACCTGACTGGAGAAAAATTATGTGTCTGCAATGATAGTTGGCAAGGTCCTGATTGT
TCTTTGAATGTTCCCTCTACTGAGTCTTACTGGATTCTGCCAAACGTTAAACCCTTCAGTCCTTCTGTAG
GTCGGGCTTCACATAAAGCAGTTTTACACGGGAAATTTATGTGGGTGATTGGTGGATATACTTTTAACTA
CAGTTCTTTTCAAATGGTCCTAAATTACAATTTAGAAAGCAGTATATGGAATGTAGGAACTCCATCAAGG
GGACCTCTCCAGAGATATGGACACTCTCTTGCTTTATATCAGGAAAACATCTTTATGTATGGAGGCAGAA
TTGAAACAAATGATGGCAATGTCACAGATGAATTATGGGTTTTTAACATACATAGTCAGTCATGGAGTAC
AAAAACTCCTACTGTTCTTGGACATGGTCAGCAGTATGCTGTGGAGGGACATTCAGCACATATTATGGAG
TTGGATAGTAGAGATGTTGTCATGATCATAATATTTGGATATTCTGCAATATATGGTTATACAAGCAGCA
TACAGGAATACCATATCTGTGAGTTACTTAAAAATTGTAATTTCTTTATTGATTGGGAATGTTTTTCTCT
T

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

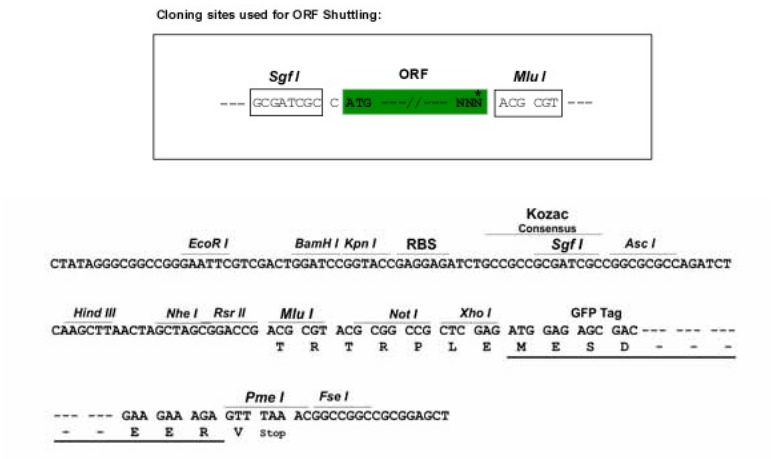
>RG234190 representing NM_001276282
Red=Cloning site Green=Tags(s)

METGGRARTGTPQPAAPGVWRARPAGGGGGGASSWLLDGNSWLLCYGFLYLALYAQVSQSKPCERTGSCF
SGRCVNSTCLCDPGWVGDQCQHCQGRFKLTEPSGYLTDGPINYKYKTKCTWLIEGYPNAVLRLRFNHFAT
ECSWDHMYVYDGDSIYAPLIAVLSGLIVPEIRGNETVPEVVTTSGYALLHFFSDAAYNLTGFNIFYSINS
CPNNCSGHGKCTTSVSVPSQVYCECDKYWKGEACDIPYCKANCGSPDHGYCDLTGEKLCVCNDSWQGPDC
SLNVPSTESYWILPNVKPFSPSVGRASHKAVLHGKFMWVIGGYTFNYSSFQMVLNYNLESSIWNVGTPSR
GPLQRYGHSLALYQENIFMYGGRIETNDGNVTDELWVFNIHSQSWSTKTPTVLGHGQQYAVEGHSAHIME
LDSRDVVMIIIFGYSAIYGYTSSIQEYHICELLKNCNFFIDWECFSL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



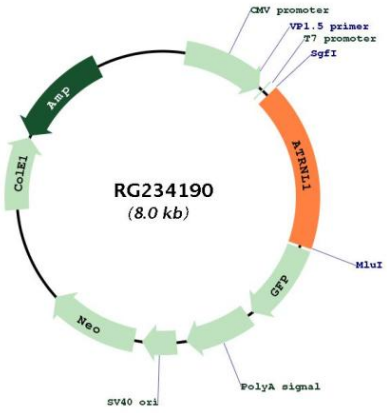
ACCN:	NM_001276282
ORF Size:	1401 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its 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:	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_001276282.4
RefSeq Size:	1836 bp
RefSeq ORF:	1404 bp
Locus ID:	26033
UniProt ID:	Q5VV63

Cytogenetics: 10q25.3

Protein Families: Druggable Genome, Transmembrane

Gene Summary: May play a role in melanocortin signaling pathways that regulate energy homeostasis. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG234190