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Product datasheet for RG220963

ApoER2 (LRP8) (NM_004631) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ApoER2 (LRP8) (NM_004631) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ApoER2
Synonyms:	APOER2; HSZ75190; LRP-8; MCI1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>RG220963 representing NM_004631
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCCTCCCCGAGCCGGGCCCTCTCCGGCTTCTGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGC
TGCAGCTCCAGCATCTTGCGGCGGCAGCGGCTGATCCGCTGCTCGGCGGCCAAGGGCCGGCCAAGGATTG
CGAAAAGGACCAATTCCAGTGCCGGAACGAGCGCTGCATCCCCTCTGTGTGGAGATGCGACGAGGACGAT
GACTGCTTAGACCACAGCGACGAGGACGACTGCCCCAAGAAGACCTGTGCAGACAGTGACTTCACCTGTG
ACAACGGCCACTGCATCCACGAACGGTGGAAGTGTGACGGCGAGGAGGAGTGTCCTGATGGCTCCGATGA
GTCCGAGGCCACTTGCACCAAGCAGGTGTGTCCTGCAGAGAAGCTGAGCTGTGGACCCACCAGCCACAAG
TGTGTACCTGCCTCGTGGCGCTGCGACGGGGAGAAGGACTGCGAGGGTGGAGCGGATGAGGCCGGCTGTG
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CGCCTGCGCCACCGCCTCCCAGTTCGCCTGCCGCAGCGGCGAGTGCGTGCACCTGGGCTGGCGCTGCGAC
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CCTTTTGGGATAGCTGTGTTTGAGGACAAGGTGTTCTGGACAGACCTGGAGAACGAGGCCATTTTCAGTG
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TAAGATGGGCTCAACAGTCACTGCCGCTGTTATCGGGATCATCGTGCCCATAGTGGTGATAGCCCTCCTG
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AGAGAACCGGAAGACCCAGCCCCTGCCCTCAAGGAGCTTTTTGTCTTGCCGGGGGAACCAAGGTCACAGC
TGCACCAACTCCCGAAGAACCCTCTTTCCGAGCTGCCTGTCGTCAAATCCAAGCGAGTGGCATTAAGCCT
TGAAGATGATGGACTACCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG220963 representing NM_004631
Red=Cloning site Green=Tags(s)

MGLPEPGPLRLLALLLLLLLLLLLQLQHLAAAAADPLLGGQGPAKDCEKDQFQCRNERCIPSVWRCDEDD
DCLDHSDEDDCPKKTCADSDFTCDNGHCIHERWKCDGEEECPDGSDESEATCTKQVCPAEKLSCGPTSHK
CVPASWRCDGEKDCEGGADEAGCATLCAPHEFQCGNRSCLAAVFVCDGDDDCGDGSDERGCADPACGPRE
FRCGGDGGGACIPERWVCDRQFDCEDRSDEAAELCGRPGPGATSAPAACATASQFACRSGECVHLGWRCD
GDRDCKDKSDEADCPLGTCRGDEFQCGDGTCVLAIKHCNQEQDCPDGSDEAGCLQGLNECLHNNGGCSHI
CTDLKIGFECTCPAGFQLLDQKTCGDIDECKDPDACSQICVNYKGYFKCECYPGYEMDLLTKNCKAAAGK
SPSLIFTNRHEVRRIDLVKRNYSRLIPMLKNVVALDVEVATNRIYWCDLSYRKIYSAYMDKASDPKEQEV
LIDEQLHSPEGLAVDWVHKHIYWTDSGNKTISVATVDGGRRRTLFSRNLSEPRAIAVDPLRGFMYWSDWG
DQAKIEKSGLNGVDRQTLVSDNIEWPNGITLDLLSQRLYWVDSKLHQLSSIDFSGGNRKTLISSTDFLSH
PFGIAVFEDKVFWTDLENEAIFSANRLNGLEISILAENLNNPHDIVIFHELKQPRAPDACELSVQPNGGC
EYLCLPAPQISSHSPKYTCACPDTMWLGPDMKRCYRAPQSTSTTTLASTMTRTVPATTRAPGTTVHRSTY
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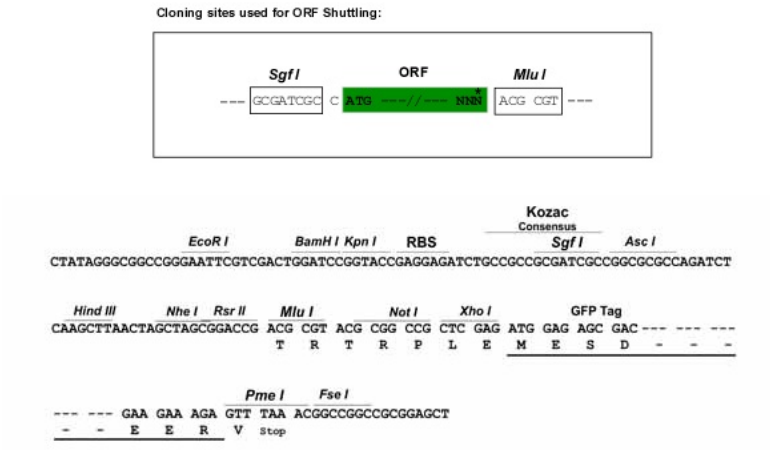
CMSGYLIWRNWKRKNTKSMNFDNPVYRKTTEEEDEDELHIGRTAQIGHVYPAAISSFDRPLWAEPCLGET
REPEDPAPALKELFVLPGEPRSQLHQLPKNPLSELPVVKSKRVALSLEDDGLP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

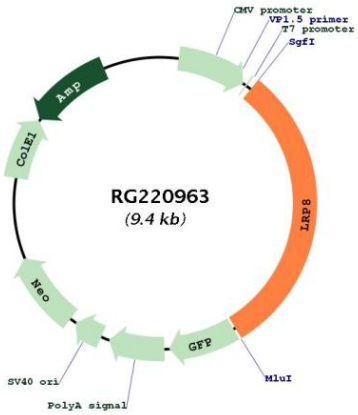


ACCN: NM_004631

ORF Size: 2889 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_004631.5
RefSeq Size:	4528 bp
RefSeq ORF:	2892 bp
Locus ID:	7804
UniProt ID:	Q14114
Cytogenetics:	1p32.3
Domains:	ldl_recept_b, EGF_CA, ldl_recept_a, EGF
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
Gene Summary:	This gene encodes a member of the low density lipoprotein receptor (LDLR) family. Low density lipoprotein receptors are cell surface proteins that play roles in both signal transduction and receptor-mediated endocytosis of specific ligands for lysosomal degradation. The encoded protein plays a critical role in the migration of neurons during development by mediating Reelin signaling, and also functions as a receptor for the cholesterol transport protein apolipoprotein E. Expression of this gene may be a marker for major depressive disorder. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jun 2011]

Product images:



Circular map for RG220963