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Product datasheet for RC232802

Estrogen Related Receptor gamma (ESRRG) (NM_001243518) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Estrogen Related Receptor gamma (ESRRG) (NM_001243518) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ESRRG
Synonyms:	ERR-gamma; ERR3; ERRg; ERRgamma; NR3B3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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ORF Nucleotide Sequence:

>RC232802 representing NM_001243518
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGGCGAGAATGTGATTGGGGTCTTGGAGCAGTCAAGTCTGATCTGGCCTGTGTTCCTTCAGCTAAAA
GGCTTCTCTGCAGAATGTCAAACAAAGATCGACACATTGATTCCAGCTGTTCGTCCTTCATCAAGACGGA
ACCTTCCAGCCCAGCCTCCCTGACGGACAGCGTCAACCACCACAGCCCTGGTGGCTCTTCAGACGCCAGT
GGGAGCTACAGTTCAACCATGAATGGCCATCAGAACGGACTTGACTCGCCACCTCTCTACCCTTCTGCTC
CTATCCTGGGAGGTAGTGGGCCTGTCAGGAAACTGTATGATGACTGCTCCAGCACCATTGTTGAAGATCC
CCAGACCAAGTGTGAATACATGCTCAACTCGATGCCCAAGAGACTGTGTTTAGTGTGTGGTGACATCGCT
TCTGGGTACCACTATGGGGTAGCATCATGTGAAGCCTGCAAGGCATTCTTCAAGAGGACAATTCAAGGCA
ATATAGAATACAGCTGCCCTGCCACGAATGAATGTGAAATCACAAAGCGCAGACGTAAATCCTGCCAGGC
TTGCCGCTTCATGAAGTGTTTAAAAGTGGGCATGCTGAAAGAAGGGGTGCGTCTTGACAGAGTACGTGGA
GGTCGGCAGAAGTACAAGCGCAGGATAGATGCGGAGAACAGCCCATACCTGAACCCTCAGCTGGTTCAGC
CAGCCAAAAAGCCATTGCTCTGGTCTGATCCTGCAGATAACAAGATTGTCTCACATTTGTTGGTGGCTGA
ACCGGAGAAGATCTATGCCATGCCTGACCCTACTGTCCCCGACAGTGACATCAAAGCCCTCACTACACTG
TGTGACTTGGCCGACCGAGAGTTGGTGGTTATCATTGGATGGGCGAAGCATATTCCAGGCTTCTCCACGC
TGTCCCTGGCGGACCAGATGAGCCTTCTGCAGAGTGCTTGGATGGAAATTTTGATCCTTGGTGTCGTATA
CCGGTCTCTTTCGTTTGAGGATGAACTTGTCTATGCAGACGATTATATAATGGACGAAGACCAGTCCAAA
TTAGCAGGCCTTCTTGATCTAAATAATGCTATCCTGCAGCTGGTAAAGAAATACAAGAGCATGAAGCTGG
AAAAAGAAGAATTTGTCACCCTCAAAGCTATAGCTCTTGCTAATTCAGACTCCATGCACATAGAAGATGT
TGAAGCCGTTCAGAAGCTTCAGGATGTCTTACATGAAGCGCTGCAGGATTATGAAGCTGGCCAGCACATG
GAAGACCCTCGTCGAGCTGGCAAGATGCTGATGACACTGCCACTCCTGAGGCAGACCTCTACCAAGGCCG
TGCAGCATTTCTACAACATCAAACTAGAAGGCAAAGTCCCAATGCACAAACTTTTTTTGGAAATGTTGGA
GGCCAAGGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC232802 representing NM_001243518
Red=Cloning site Green=Tags(s)

MWRECDWGLGAVKSDLACVPSAKRLLCRMSNKDRHIDSSCSSFIKTEPSSPASLTDSVNHHSPGGSSDAS
GSYSSTMNGHQNGLDSPPLYPSAPILGGSGPVRKLYDDCSSTIVEDPQTKCEYMLNSMPKRLCLVCGDIA
SGYHYGVASCEACKAFFKRTIQGNIEYSCPATNECEITKRRRKSCQACRFMKCLKVGMLKEGVRLDRVRG
GRQKYKRRIDAENSPYLNPQLVQPAKKPLLWSDPADNKIVSHLLVAEPEKIYAMPDPTVPDSDIKALTTL
CDLADRELVVIIGWAKHIPGFSTLSLADQMSLLQSAWMEILILGVVYRSLSFEDELVYADDYIMDEDQSK
LAGLLDLNNAILQLVKKYKSMKLEKEEFVTLKAIALANSDSMHIEDVEAVQKLQDVLHEALQDYEAGQHM
EDPRRAGKMLMTLPLLRQTSTKAVQHFYNIKLEGKVPMHKLFLEMLEAKV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

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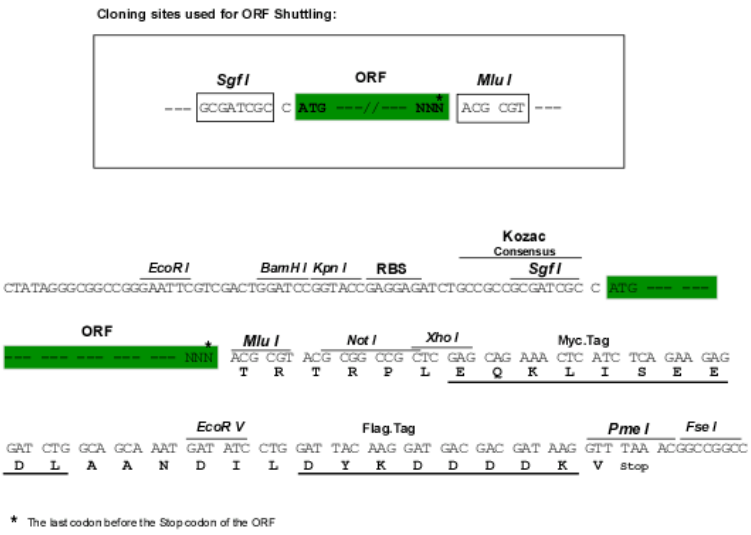
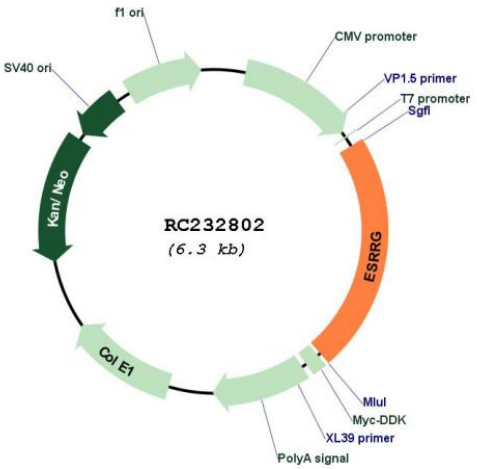
Cloning Scheme:



Plasmid Map:



ACCN: NM_001243518

ORF Size: 1410 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).

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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_001243518.2
RefSeq Size:	5409 bp
RefSeq ORF:	1413 bp
Locus ID:	2104
UniProt ID:	P62508
Cytogenetics:	1q41
Protein Families:	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
MW:	52.9 kDa
Gene Summary:	This gene encodes a member of the estrogen receptor-related receptor (ESRR) family, which belongs to the nuclear hormone receptor superfamily. All members of the ESRR family share an almost identical DNA binding domain, which is composed of two C4-type zinc finger motifs. The ESRR members are orphan nuclear receptors; they bind to the estrogen response element and steroidogenic factor 1 response element, and activate genes controlled by both response elements in the absence of any ligands. The ESRR family is closely related to the estrogen receptor (ER) family. They share target genes, co-regulators and promoters, and by targeting the same set of genes, the ESRRs seem to interfere with the ER-mediated estrogen response in various ways. It has been reported that the family member encoded by this gene functions as a transcriptional activator of DNA cytosine-5-methyltransferases 1 (Dnmt1) expression by direct binding to its response elements in the DNMT1 promoters, modulates cell proliferation and estrogen signaling in breast cancer, and negatively regulates bone morphogenetic protein 2-induced osteoblast differentiation and bone formation. Multiple alternatively spliced transcript variants have been identified, which mainly differ at the 5' end and some of which encode protein isoforms differing in the N-terminal region. [provided by RefSeq, Aug 2011]

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