

Product datasheet for **RG238138**

Estrogen Related Receptor alpha (ESRRA) (NM_001282450) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Estrogen Related Receptor alpha (ESRRA) (NM_001282450) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ESRRA
Synonyms:	ERR1; ERRa; ERRalpha; ESRL1; NR3B1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG238138 representing NM_001282450. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCCGCCGGGAATTCGTCGACTG
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GCGGGCAAAGTGTGGCCATTTCTATGGGGTGAAGCTGGAGGGCAAGGTGCCATGCACAAGCTGTTT
TTGGAGATGCTCGAGGCCATGATGGAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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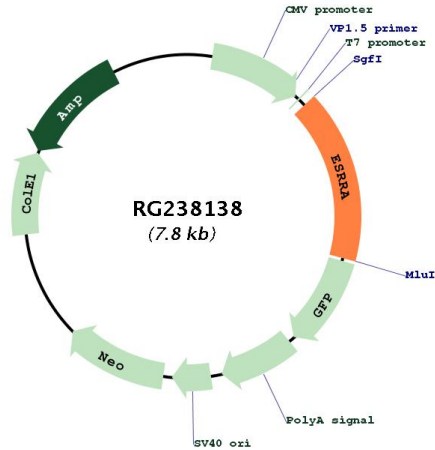
Protein Sequence: >Peptide sequence encoded by RG238138
 Blue=ORF Red=Cloning site Green=Tag(s)

MSSQVVGIEPLYIKAEPASPDSPKGSSETETEPVALAPGPAPTRCLPGHKEEEDGEGAGPGEQGGGKL
 VLSSLPKRLCLVCGDVASGYHYGVASCEACKAFKRTIQGSI EYSCPASNECEITKRRRKACQACRFTK
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 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001282450

ORF Size: 1269 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).

RefSeq: [NM_001282450.1](#), [NP_001269379.1](#)

RefSeq Size: 2293 bp

RefSeq ORF: 1272 bp

Locus ID: 2101

UniProt ID: [P11474](#)

Cytogenetics: 11q13.1

Protein Families: Druggable Genome, Nuclear Hormone Receptor, Transcription Factors

MW: 46 kDa

Gene Summary:

The protein encoded by this gene is a nuclear receptor that is most closely related to the estrogen receptor. This protein acts as a site-specific transcription factor and interacts with members of the PGC-1 family of transcription cofactors to regulate the expression of most genes involved in cellular energy production as well as in the process of mitochondrial biogenesis. A processed pseudogene of ESRRA is located on chromosome 13q12.1. [provided by RefSeq, Jun 2019]