

Product datasheet for **RG229261**

Estrogen Related Receptor beta (ESRRB) (NM_004452) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Estrogen Related Receptor beta (ESRRB) (NM_004452) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ESRRB
Synonyms:	DFNB35; ERR2; ERRb; ERR beta-2; ERRbeta2; ESRL2; NR3B2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG229261 representing NM_004452
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCCTCGGACGACAGGCACCTGGGCTCCAGCTGCGGCTCCTTCATCAAGACTGAGCCGTCAGCCCGT
 CCTCGGGCATCGATGCCCTCAGCCACCACAGCCCAAGTGGCTCGTCCGACGCCAGCGGGCGCTTTGGCCT
 GGCCCTGGGACCCACGCCAACGGTCTGACTCGCCACCCATGTTTGCAGGCGCCGGGCTGGGAGGCACC
 CCATGCCGAAGAGCTACGAGGACTGTGCCAGCGGCATCATGGAGGACTCGGCCATCAAGTGCAGTACA
 TGCTCAACGCCATCCCCAAGCGCTGTGCCTCGTGTGCGGGGACATTGCCTCTGGCTACCACTACGGCGT
 GGCCTCTGCGAGGCTTGAAGGCCTTCTCAAGAGGACTATCCAAGGGAACATTGAGTACAGCTGCCCCG
 GCCACCAACGAGTGCAGATCACCAACGGAGGCGCAAGTCTGCCAGGCTGCCGCTTCATGAAATGCC
 TCAAAGTGGGGATGCTGAAGGAAGGTGTGCGCCTTGATCGAGTGGTGGAGGCCGTGAGAAATACAAGCG
 ACGGCTGGACTCAGAGAGCAGCCATACCTGAGCTTACAATTTCTCCACCTGCTAAAAAGCCATTGACC
 AAGATTGTCTCATACCTACTGGTGGCTGAGCCGACAAGCTCTATGCCATGCCTCCCCCTGGTATGCCTG
 AGGGGGACATCAAGGCCCTGACCACTCTCTGTGACCTGGCAGACCAGAGCTTGTGGTATCATTGGCTG
 GGCCAAGCACATCCCAGGCTTCTCAAGCCTCTCCCTGGGGGACCAGATGAGCCTGCTGCAGAGTGCCTGG
 ATGAAATCCTCATCCTGGGCATCGTGTACCGCTCGTGCCTATGACGACAAGCTGGTGTACGCTGAGG
 ACTACATCATGGATGAGGAGCACTCCCGCTCGCGGGGCTGTGGAGCTTACCGGGCCATCCTGCAGCT
 GGTACGCAAGTACAAGAAGCTCAAGGTGGAGAAGGAGGAGTTTGTGACGCTCAAGGCCCTGGCCCTCGCC
 AACTCCGATTCCATGTACATCGAGGATCTAGAGGCTGTCCAGAAGCTGCAGGACCTGCTGCACGAGGCAC
 TGCAGGACTACGAGCTGAGCCAGCGCCATGAGGAGCCCTGGAGGACGGGCAAGCTGCTGCACACTGCC
 GCTGTGCGGCAGACGGCCGCAAGGCCGTGACGCACTTCTATAGCGTCAAAGTGCAGGGCAAAGTGCC
 ATGCACAACTCTTCTGGAGATGCTGGAGGCCAAGGTTGGCAAAGAGCAGCTTAGAGGATCTCCCAAGG
 ATGAAAGAATGTCAAGCCATGATGGAAAATGCCCTTCCAATCAGCTGCCTTACAAGCAGGGATCAGAG
 CAACTCCCGGGGATCCCAATCCACGCCCTTCTAGTCCAACCCCTCAATGAGAGAGGCAGGCAGATC
 TCACCCAGCACTAGGACACCAGGAGGCCAGGAAAGCATCTCTGGCTCACCATG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG229261 representing NM_004452
 Red=Cloning site Green=Tags(s)

MSSDDRHLGSSCGSFIKTEPSSPSSGIDALSHHSPSGSSDASGGFGLALGTHANGLDSPPMFAGAGLGGT
 PCRKSYEDCASGIMEDSAIKCEYMLNAIPKRLCLVCGDIASGYHYGVASCEACKAFFKRTIQGNIEYSCP
 ATNECEITKRRRKSCQACRFMKCLKVGMKEGVRLDRVRGGRQYKRRLDSESSPYLSLQISPPAKKPLT
 KIVSYLLVAEPDKLYAMPPPGMPEGDIKALTTLCDLADRELVVIGWAKHIPGFSSLSLGDQMSLLQSAW
 MEILILGIVYRSLPYDDKLVYAEDYIMDEEHSRLAGLLELYRAILQLVRRYKCLKVEKEEFVTLKALALA
 NSDSMYIEDLEAVQKLQDLLHEALQDYELQSRHEEPWRTGKLLLTLPLLRQTAAKAVQHFYSVKLQKVP
 MHKLFLEMLEAKVQEQLRGSPKDERMSSHDGKCPFQSAAFTRDQSNSPGIPNPRPSSPTPLNERGRQI
 SPSTRTPGGQKHLWLT

TRTRPLE – GFP Tag – V

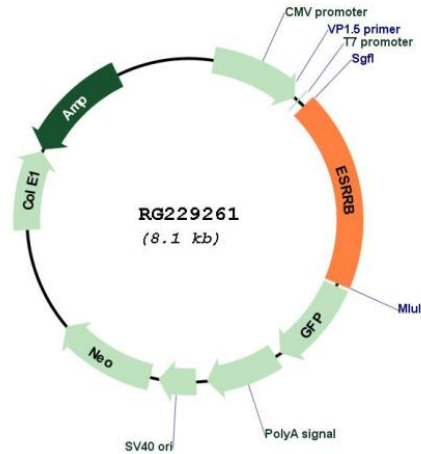
Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_004452

ORF Size: 1524 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_004452.4
RefSeq Size:	3029 bp
RefSeq ORF:	1527 bp
Locus ID:	2103
UniProt ID:	O95718
Cytogenetics:	14q24.3
Protein Families:	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
Gene Summary:	This gene encodes a protein with similarity to the estrogen receptor. Its function is unknown; however, a similar protein in mouse plays an essential role in placental development. [provided by RefSeq, Jul 2008]