

Product datasheet for **RG232823**

Estrogen Receptor beta (ESR2) (NM_001214902) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Estrogen Receptor beta (ESR2) (NM_001214902) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ESR2
Synonyms:	ER-BETA; Erb; ESR-BETA; ESRB; ESTRB; NR3A2; ODG8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG232823 representing NM_001214902
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATATAAAAACTCACCATCTAGCCTTAATTCCTCCTCCTACAACCTGCAGTCAATCCATCTTAC
 CCCTGGAGCACGGCTCCATATACATACCTCCTCTATGTAGACAGCCACCATGAATATCCAGCCATGAC
 ATTCTATAGCCCTGCTGTGATGAATTACAGCATTCCCAGCAATGCACTAACTTGGAAAGGTGGGCCTGGT
 CGGCAGACCACAAGCCAAATGTGTTGTGGCCAACACCTGGGCACCTTTCTCCTTTAGTGGTCCATCGCC
 AGTTATCACATCTGTATGCGGAACCTCAAAGAGTCCCTGGTGTGAAGCAAGATCGCTAGAACACACCTT
 ACCTGTAAACAGAGAGACTGAAAAGGAAGGTTAGTGGGAACCGTTGCGCCAGCCCTGTTACTGGTCCA
 GGTTCAAAGAGGGATGCTCACTTCTGCGCTGTCTGCAGCATTACGCATCGGGATATCACTATGGAGTCT
 GGTCTGTGAAGGATGTAAGGCCTTTTTAAAAGAAGCATTCAAGGACATAATGATTATATTTGTCAGC
 TACAAATCAGTGTACAATCGATAAAAACCGGCGCAAGAGCTGCCAGGCCCTGCCACTTCGGAAGTGTAC
 GAAGTGGGAATGGTGAAGTGTGGCTCCCGGAGAGAGAGATGTGGTACCGCCTTGTGCGGAGACAGAGAA
 GTGCCGACGAGCAGCTGCACTGTGCCGGCAAGGCCAAGAGAAGTGGCGGCCACGCGCCCCGAGTGGGGGA
 GCTGCTGCTGGACGCCCTGAGCCCCGAGCAGCTAGTGCTCACCCCTCCTGGAGGCTGAGCCGCCCATGTG
 CTGATCAGCCGCCCAGTGCGCCCTCACCGAGGCCTCCATGATGATGTCCTGACCAAGTTGGCCGACA
 AGGAGTTGGTACACATGATCAGCTGGGCCAAGAAGATCCCGGCTTTGTGGAGCTCAGCCTGTTGACCA
 AGTGGCGCTCTTGAGAGCTGTTGGATGGAGGTGTTAATGATGGGGCTGATGTGGCGTCAATTGACCAC
 CCCGGCAAGCTCATCTTTGCTCCAGATCTGTTCTGGACAGGGATGAGGGGAAATGCGTAGAAGGAATTC
 TGGAAATCTTTGACATGCTCCTGCAACTACTTCAAGTTTCGAGAGTTAAAACCAACACAAAGAATA
 TCTCTGTGTCAAGGCCATGATCCTGCTCAATTCCAGTATGTACCCTCTGGTCACAGCGACCCAGGATGCT
 GACAGCAGCCGGAAGCTGGCTCACTTGCTGAACGCCGTGACCGATGCTTTGGTTTGGGTGATTGCCAAGA
 GCGGCATCTCTCCAGCAGCAATCCATGCGCCTGGTAACTCCTGATGCTCCTGTCCACGTCAGGCA
 TCGGAGATGGGGAGAAAAGCAATTCATTCATTTGAAGTTATCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG232823 representing NM_001214902
 Red=Cloning site Green=Tags(s)

MDIKNSPSSLNSPSSYNCSQSILPLEHGSYIYIPSSYVDSHHEYPAMTFYSPAVMNYIIPSNVTNLEGGPG
 RQTTSPNVLWPTPGHLSPLVVHRQLSHLYAEPQKSPWCEARSLEHTLPVNRETLKRKVSIGNRCASPVTPG
 GSKRDAHFCAVCSYASGYHYGVWSECGCKAFFKRISIQGHNDYICPATNQCTIDKNRRKSCQACRLRKCY
 EVGMVKCGSRRERCYRLVRRQRSADQLHCAGKAKRSGGHAPRVRELLLDALSPEQLVLTLLAEPPHV
 LISRPSAPFTEASMMMSLTKLADKELVHMISWAKKIPGFVELSLFDQVRLLESCWMEVLMGLMWRSIDH
 PGKLIFAPDLVLDREDEKCEVILEIFDMLLATTSRFRELKQLHKEYLCKVAMILLNSSMYPLVTATQDA
 DSSRKLALLNAVTDALVWVIAKSGISSQQSMRLANLLMLLSHVRHARWGEKQFIHLKLS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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_001214902.1 , NP_001201831.1
RefSeq Size:	2407 bp
RefSeq ORF:	1446 bp
Locus ID:	2100
UniProt ID:	Q92731
Cytogenetics:	14q23.2-q23.3
Protein Families:	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
Gene Summary:	<p>This gene encodes a member of the family of estrogen receptors and superfamily of nuclear receptor transcription factors. The gene product contains an N-terminal DNA binding domain and C-terminal ligand binding domain and is localized to the nucleus, cytoplasm, and mitochondria. Upon binding to 17beta-estradiol or related ligands, the encoded protein forms homo- or hetero-dimers that interact with specific DNA sequences to activate transcription. Some isoforms dominantly inhibit the activity of other estrogen receptor family members. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been fully characterized. [provided by RefSeq, Jul 2008]</p>