

Product datasheet for RC232727

Estrogen Receptor beta (ESR2) (NM_001271877) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Estrogen Receptor beta (ESR2) (NM_001271877) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ESR2
Synonyms:	ER-BETA; Erb; ESR-BETA; ESRB; ESTRB; NR3A2; ODG8
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC232727 representing NM_001271877 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATATAAAAACTCACCATCTAGCCTTAATTCCTCCTCCTACAACCTGCAGTCAATCCATCTTAC
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CGGCAGACCACAAGCCAAATGTGTTGTGGCCAACACCTGGGCACCTTTCTCCTTATAGTGTCCATCGCC
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ACCTGTAAACAGAGAGACTGAAAAGGAAGGTTAGTGGGAACCGTTGCGCCAGCCCTGTTACTGGTCCA
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GTGCCGACGAGCAGCTGCCTGTGCCGCAAGGCCAAGAGAAGTGGCGGCCACGCGCCCGAGTCCGGGA
GCTGTGCTGGACGCCCTGAGCCCCGAGCAGTGTGCTCACCCTCTGGAGGCTGAGCCGCCCATGTG
CTGATCAGCCGCCCCAGTGCGCCCTTACCAGGCTCCATGATGATGTCCCTGACCAAGTTGGCCGACA
AGGAGTTGGTACACATGATCAGCTGGGCCAAGAAGATTCCCGGTATGTACCCTCTGGTACAGCGACCCA
GGATGCTGACAGCAGCCGAAGCTGGCTCACTTGTGAACGCCGTGACCGATGCTTTGGTTGGGTGATT
GCCAAGAGCGGCATCTCCTCCCAGCAGCAATCCATGCGCCTGGTAACTCCTGATGCTCCTGTCCCACG
TCAGGCATGCGAGTAACAAGGCATGGAACATCTGCTCAACATGAAGTCAAAAAATGTGGTCCCAGTGA
TGACCTGCTGCTGGAGATGCTGAATGCCACGTGCTTCGCGGGTCAAGTCTCCATCACGGGTCCGAG
TGCAGCCCGCAGAGGACAGTAAAAGCAAAGAGGGCTCCAGAACCCACAGTCTCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RC232727 representing NM_001271877
Red=Cloning site Green=Tags(s)

MDIKNSPSSLNSPSSYNCSQSILPLEHGSYIPSSYVDSHHEYAMTFYSPAVMNYIIPSNVTNLEGGPG
 RQTTSPNVLWPTPGHLSPLVVHRQLSHLYAEPQKSPWCEARSLEHTLPVNRETLKRKVSIGNRASPVTGP
 GSKRDAHFCAVCSDYASGYHYGVWSCEGCKAFFKRSIQGHNDYICPATNQCTIDKNRRKSCQACRLKCY
 EVGMVKCGSRRERCYRLVRRQRSADQLHCAGKAKRSGGHAPRVRELLLDALSPEQLVLTLLAEPPHV
 LISRPSAPFTEASMMMSLTKLADKELVHMI SWAKKIPGMYPLVTATQDADSSRKL AHLLNAVTDALVWVI
 AKSGISSQQQSMRLANLLMLLSHVRHASNKGMEHLLNMKCKNVVPYDLLLLLEMLNAHVLRGCKSSITGSE
 CSPAESKSKESQNPQSQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

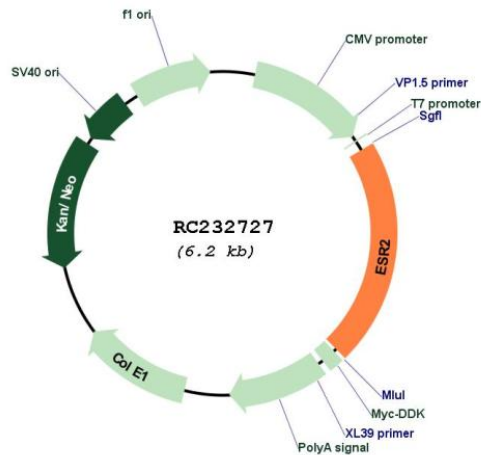
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001271877

ORF Size:	1317 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_001271877.1 , NP_001258806.1
RefSeq Size:	1518 bp
RefSeq ORF:	1320 bp
Locus ID:	2100
UniProt ID:	Q92731
Cytogenetics:	14q23.2-q23.3
Protein Families:	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
MW:	49.1 kDa
Gene Summary:	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]