

## Product datasheet for **TP325714M**

### Estrogen Related Receptor gamma (ESRRG) (NM\_001134285) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Purified recombinant protein of Homo sapiens estrogen-related receptor gamma (ESRRG), transcript variant 4, 100 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC225714 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MSNKDRHIDSSCSSFIKTEPSSPASLTDSVNHHSPPGGSSDASGSYSSTMNGHQGLDSPPLYPSAPILGG  
SGPVRKLYDDCSSTIVEDPQTKCEYMLNSMPKRLCLVCGDIASGYHYGVASCEACKAFFKRTIQGNIEYS  
CPATNECEITKRRRKSCQACRFMKCLKVGMLEKEGVRLDRVRGGRQKYKRRIDAENSPYLNPLVQPAKKP  
YNKIVSHLLVAEPEKIYAMPDPTVPDSDIKALTTLCDLADRELVIIGWAKHIPGFSTLSLADQMSSLQS  
AWMEILILGWYRSLSFEDLVYADDYIMDEDQSKLAGLLDLNNAIQLVKKYKSMKLEKEEFVTLKAIA  
LANSDSMHIEDVEAVQKLQDVLHEALQDYEAGQHMEDPRRAGKMLMTPLLRQTSTKAVQHFYNIKLEGK  
VPMHKLFLMLEAKV

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK

**Predicted MW:** 48.4 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



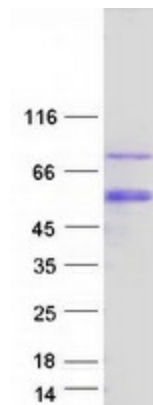
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RefSeq:	<a href="#">NP_001127757</a>
Locus ID:	2104
UniProt ID:	<a href="#">P62508</a> , <a href="#">F1D8R6</a>
RefSeq Size:	5336
Cytogenetics:	1q41
RefSeq ORF:	1305
Synonyms:	ERR-gamma; ERR3; ERRg; ERRgamma; NR3B3

**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]

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

### Product images:



Coomassie blue staining of purified ESRRG protein (Cat# [TP325714]). The protein was produced from HEK293T cells transfected with ESRRG cDNA clone (Cat# [RC225714]) using MegaTran 2.0 (Cat# [TT210002]).