

OriGene Technologies, Inc.

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Product datasheet for PH326004

Estrogen Receptor 1 (ESR1) (NM_001122741) Human Mass Spec Standard

Product data:

Product Type: Ma:	ass Spec Standards
Description: ESR	R1 MS Standard C13 and N15-labeled recombinant protein (NP_001116213)
Species: Hui	man
Expression Host: HE	K293
Expression cDNA Clone RC2 or AA Sequence:	226004
Predicted MW: 66	kDa
	C226004 representing NM_001122741 d=Cloning site Green=Tags(s)
QVY VRE RSI GSA DRE MVE AKA	ITLHTKASGMALLHQIQGNELEPLNRPQLKIPLERPLGEVYLDSSKPAVYNYPEGAAYEFNAAAAANA /GQTGLPYGPGSEAAAFGSNGLGGFPPLNSVSPSPLMLLHPPPQLSPFLQPHGQQVPYYLENEPSGYT EAGPPAFYRPNSDNRRQGGRERLASTNDKGSMAMESAKETRYCAVCNDYASGYHYGVWSCEGCKAFFK IQGHNDYMCPATNQCTIDKNRRKSCQACRLRKCYEVGMMKGGIRKDRRGGRMLKHKRQRDDGEGRGEV AGDMRAANLWPSPLMIKRSKKNSLALSLTADQMVSALLDAEPPILYSEYDPTRPFSEASMMGLLTNLA ELVHMINWAKRVPGFVDLTLHDQVHLLECAWLEILMIGLVWRSMEHPGKLLFAPNLLLDRNQGKCVEG EIFDMLLATSSRFRMMNLQGEEFVCLKSIILLNSGVYTFLSSTLKSLEEKDHIHRVLDKITDTLIHLM AGLTLQQQHQRLAQLLLILSHIRHMSNKGMEHLYSMKCKNVVPLYDLLLEMLDAHRLHAPTSRGGASV IDQSHLATAGSTSSHSLQKYYITGEAEGFPATV
TRT	RPL EQKLISEEDLAANDILDYKDDDDK V
Tag: C-N	Myc/DDK
Purity: > 80	30% as determined by SDS-PAGE and Coomassie blue staining
Concentration: >0.0	.05 μg/μL as determined by microplate BCA method
Labeling Method: Lab	peled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer: 25	mM Tris-HCl, 100 mM glycine, pH 7.3
Storage: Sto	pre at -80°C. Avoid repeated freeze-thaw cycles.
Stability: Sta	able for 3 months from receipt of products under proper storage and handling conditions.
	001116213



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	E Estrogen Receptor 1 (ESR1) (NM_001122741) Human Mass Spec Standard – PH326004	
Locus ID:	2099	
UniProt ID:	P03372, G4XH65	
Cytogenetics:	6q25.1-q25.2	
Summary:	This gene encodes an estrogen receptor and ligand-activated transcription factor. The canonical protein contains an N-terminal ligand-independent transactivation domain, a central DNA binding domain, a hinge domain, and a C-terminal ligand-dependent transactivation domain. The protein localizes to the nucleus where it may form either a homodimer or a heterodimer with estrogen receptor 2. The protein encoded by this gene regulates the transcription of many estrogen-inducible genes that play a role in growth, metabolism, sexual development, gestation, and other reproductive functions and is expressed in many non-reproductive tissues. The receptor encoded by this gene plays a key role in breast cancer, endometrial cancer, and osteoporosis. This gene is reported to have dozens of transcript variants due to the use of alternate promoters and alternative splicing, however, the full-length nature of many of these variants remain uncertain. [provided by RefSeq, Jul 2020]	
Protein Families	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors	

Product images:

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66	_	=
45	_	
35	_	
25	-	
18	_	
14	_	

Coomassie blue staining of purified ESR1 protein (Cat# [TP326004]). The protein was produced from HEK293T cells transfected with ESR1 cDNA clone (Cat# [RC226004]) using MegaTran 2.0 (Cat# [TT210002]).

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