

## Product datasheet for TP303709

### EWSR1 (NM\_005243) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human Ewing sarcoma breakpoint region 1 (EWSR1), transcript variant EWS, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC203709 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MASTDYSTYSQAAAQQGYSAYTAQPTQGYAQTQAYGQQSYGTYGQPTDVSYTQAQTTATYGGQTAYATSY  
GQPPTGYTTPTAPQAYSQPVQGYGTGAYDTTATVTTTQASYAAQSAYGTQPAYPAYGQQPAATAPTRPQ  
DGNKPTETSQPQSSTGGYNQPSLGYGQSNYSYPQVPGSYPMQPVTAPPSYPPTSYSSTQPTSQDSSYSQ  
QNTYGGPSSYGQQSSYGQQSSYGQQPPTSYPPTGYSYQAPSQYSQQSSSYGQQSSFRQDHPSSMGVY  
GQ  
ESGGFSGPGENRSMSPDNRGRGRGGFDRGGMSRGGRRGGRRGGMGAGERGGFNKPGGPMDEGPDL  
DLGPP  
VDPDESDNSAIYVQGLNDSVTLDDLADFFKQCQGVKMNKRTGQPMIHIYLDKETGKPKGDATVSYEDPP  
TAKAAVEWFDGKDFQGSKLVSLARKKPPMNSMRGGLPPREGRGMPPPLRGGPGGGPGGPGMGRM  
GGRG  
GDRGGFPPRGRGSRGNPSGGNVQHRAGDWQCPNPGCGNQNFARTECNQCKAPKPEGFLPPFPF  
PPGG  
DRGRGGPGGMRRGGRGLMDRGGPGGMFRGGRRGGDRGGFRGGRRGMDRGGFGGRRGGPGGPPGPL  
MEQMGG  
RRGGRGGPGKMDKGEHRQERRDRPY

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

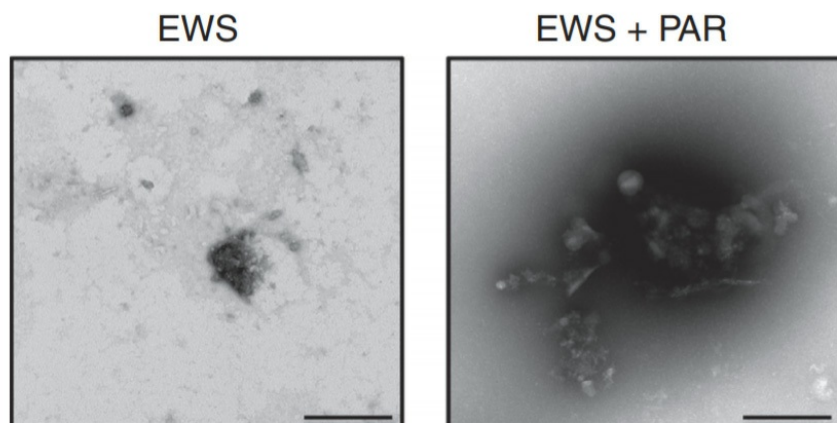
Tag:	C-Myc/DDK
Predicted MW:	68.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



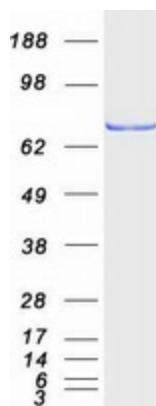
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<b>Bioactivity:</b>	Transmission electron microscopy (PMID: <a href="#">26286827</a> ) In vitro kinase assay inhibitor (PMID: <a href="#">29513652</a> )
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_005234</a>
<b>Locus ID:</b>	2130
<b>UniProt ID:</b>	<a href="#">Q01844</a>
<b>RefSeq Size:</b>	2679
<b>Cytogenetics:</b>	22q12.2
<b>RefSeq ORF:</b>	1965
<b>Synonyms:</b>	bK984G1.4; EWS; EWS-FLI1
<b>Summary:</b>	This gene encodes a multifunctional protein that is involved in various cellular processes, including gene expression, cell signaling, and RNA processing and transport. The protein includes an N-terminal transcriptional activation domain and a C-terminal RNA-binding domain. Chromosomal translocations between this gene and various genes encoding transcription factors result in the production of chimeric proteins that are involved in tumorigenesis. These chimeric proteins usually consist of the N-terminal transcriptional activation domain of this protein fused to the C-terminal DNA-binding domain of the transcription factor protein. Mutations in this gene, specifically a t(11;22)(q24;q12) translocation, are known to cause Ewing sarcoma as well as neuroectodermal and various other tumors. Alternative splicing of this gene results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 1 and 14. [provided by RefSeq, Jul 2009]
<b>Protein Families:</b>	Druggable Genome, Stem cell - Pluripotency, Transcription Factors

## Product images:



Full-length recombinant EWS (OriGene TP303709) was incubated at 37 C for 24 hours with or without sub-stoichiometric amounts of purified PAR. Protein aggregates were analyzed by transmission electron microscopy. Figure cited from Nat Commun, PMID: 26286827



Coomassie blue staining of purified EWSR1 protein (Cat# TP303709). The protein was produced from HEK293T cells transfected with EWSR1 cDNA clone (Cat# [RC203709]) using MegaTran 2.0 (Cat# [TT210002]).