

Product datasheet for **SC116868**

EWSR1 (NM_005243) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EWSR1 (NM_005243) Human Untagged Clone
Tag:	Tag Free
Symbol:	EWSR1
Synonyms:	bK984G1.4; EWS; EWS-FLI1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_005243, the custom clone sequence may differ by one or more nucleotides

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ATGGCGTCCACGGATTACAGTACCTATAGCCAAGCTGCAGCGCAGCAGGGCTACAGTGCTTACACCGCCC
AGCCCACTCAAGGATATGCACAGACCACCCAGGCATATGGCAACAAAGCTATGGAACCTATGGACAGCC
CACTGATGCAGCTATACCCAGGCTCAGACCCTGCAACCTATGGGCAGACCCGCTATGCAACTTCTTAT
GGACAGCCTCCCCTGGTTATACTACTCCAAGTGCACCCAGGCATACAGCCAGCCTGTCCAGGGTATG
GCACTGGTGCTTATGATACCACCACTGCTACAGTACCACCACCCAGGCCTCCTATGCAGCTCAGTCTGC
ATATGGCACTCAGCCTGCTTATCCAGCCTATGGGCAGCAGCCAGCAGCCACTGCACCTACAAGACCGCAG
GATGGAACAAGCCCACTGAGACTAGTCAACCTCAATCTAGCACAGGGGGTTACAACCAGCCAGCCTAG
GATATGGACAGAGTAACTACAGTATCCCAGGTACCTGGGAGCTACCCCATGCAGCCAGTCACTGCACC
TCCATCCTACCCTCCTACCAGCTATTCTCTACACAGCCGACTAGTTATGATCAGAGCAGTTACTCTCAG
CAGAACACCTATGGGCAACCGAGCAGCTATGGACAGCAGAGTAGTATGGTCAACAAAGCAGCTATGGGC
AGCAGCCTCCCCTAGTTACCCACCCAACTGGATCCTACAGCCAAGCTCCAAGTCAATATAGCCAACA
GAGCAGCAGCTACGGGCAGCAGAGTTCAATCCGACAGGACCACCCAGTAGCATGGGTGTTTATGGGCAG
GAGTCTGGAGGATTTTCCGGACCAGGAGAGAACCAGGAGCATGAGTGGCCCTGATAACCCGGGCAGGGGAA
GAGGGGGATTTGATCGTGGAGGCATGAGCAGAGGTGGGCGGGGAGGAGGACGCGGTGGAATGGGCAGCGC
TGGAGAGCGAGGTGGCTCAATAAGCCTGGTGGACCCATGGATGAAGGACCAGATCTTGATCTAGGCCCA
CCTGTAGATCCAGATGAAGACTCTGACAACAGTCAATTTATGTACAAGGATTAATGACAGTGTGACTC
TAGATGATCTGGCAGACTTCTTTAAGCAGTGTGGGGTTGTTAAGATGAACAAGAGAACTGGGCAACCCAT
GATCCACATCTACCTGGACAAGGAAACAGGAAAGCCAAAGGCGATGCCACAGTGTCTATGAAGACCCA
CCCCTGCCAAGGCTGCCGTGGAATGGTTGATGGGAAAGATTTTCAAGGGAGCAAACTAAAGTCTCCC
TTGCTCGGAAGAAGCCTCCAATGAACAGTATGCGGGGTGGTCTGCCACCCGTGAGGGCAGAGGCATGCC
ACCACCACTCCGTGGAGGTCCAGGAGGCCAGGAGGTCTGGGGACCCATGGGTGCGATGGGAGGCCGT
GGAGGAGATAGAGGAGGCTTCCCTCCAAGAGGACCCCGGGGTCCCGAGGGAACCCCTCTGGAGGAGGAA
ACGTCCAGCACCAGCTGGAGACTGGCAGTGTCCAATCCGGGTGTGGAACCAGAACTTCGCCTGGAG
AACAGAGTGAACCAGTGAAGGCCCAAGCCTGAAGGCTTCTCCCGCACCCCTTCCGCCCCGGGT
GGTGATCGTGGCAGAGGTGGCCCTGGTGGCATGCGGGGAGGAAGAGGTGGCTCATGGATCGTGGTGGTC
CCGGTGGATGTTAGAGGTGGCCGTGGTGGAGACAGAGGTGGCTCCGTGGTGGCCGGGCATGGACCG
AGGTGGCTTTGGTGGAGGAAGACAGAGTGGCCCTGGGGGGCCCTGGACCTTTGATGGAACAGATGGGA
GGAAGAAGAGGAGGACGTGGAGGACCTGAAAAATGGATAAAGGCGAGCACCGTCAAGGAGCGCAGAGATC
GGCCCTACTAG
    
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_005243 unedited
AGTCAGCATTTGTATACGACTCACTATAGGGCGGCCGGAATTCGCACGAGGGAAGGAGA
GAAAAATGGCGTCCACGGATTACAGTACCTATAGCCAAGCTGCAGCGCAGCAGGGCTACAG
TGCTTACACCGCCAGCCCACTCAAGGATATGCACAGACCACCCAGGCATATGGGCAACA
AAGCTATGGAACCTATGGACAGCCCACTGATGTCAGCTATACCCAGGCTCAGACCACTGC
AACCTATGGGCAGACCGCTATGCAACTTCTTATGGACAGCCTCCCCTGGTTATACTAC
TCCAAGTGCACCCAGGCATACAGCCAGCCTGTCCAGGGGTATGGCACTGGTGCTTATGA
TACCACCACTGCTACAGTACCACCACCCAGGCCTCCTATGCAGCTCAGTCTGCATATGG
CACTCAGCCTGCTTATCCAGCCTATGGGCAGCAGCCAGCAGCCACTGCACCTACAAGACC
GCAGGATGGAACAAGCCCACTGAGACTAGTCAACCTCAATCTAGCACAGGGGGTTACAA
CCAGCCCAGCCTAGGATATGGACAGAGTAACTACAGTTATCCCCAGGTACCTGGGAGCTA
CCCCATGCAGCCAGTCACTGCACCTCCATCCTACCCTCCTACCAGCTATTCTCTACACA
GCCGACTAGTTATGATCAGAGCAGTTACTCTCAGCAGAACACCTATGGGCAACCGAGCAG
CTATGGACAGCAGAGTAGCTATGGTCAACAAAGCAGCTATGGGCAGCAGCCTTCCACTAG
NTACCCACCCCANACTGGATCCTACAGCCAAGCTNCAAGTCAATATAGCCCACAGAGCA
GCAGCTACGGGCAGCAGAAGTCAATCCGACAGGACCACCCCATAGCATGGGTGTTTATGG
GCAGGC
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_005243 unedited CGGCACGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTAAACATTTGGAATTT TATTTAAAAAACAACATCACAACCATGGAACATTGTTACAGTTAAGAAGGCC TCTTGGGTTCTCCACAATGATACTGGAGCATGCTCACAAGGGCTTCCCATTGTTAAAGT CTTAAACAACCATTTTTAAAAGAAGGAAGAAAAAACTCCGCACACTACCATTTAACT TGTTTTAATGTTCTTCCAAAATGGTGAAAAATACTAAAGTACAGACAAGGAATAATCAT AATGTTGGGGCCAACATTATAAATATGGAATTATAAATTTAAAACATTTTCTGGTTTAAA AAATAAATCTGGTAGTCAATGCAGCTCTGCGGGTCTCTGCATCTAGTAGGGCCGATCTC TGCCTCTGACGGTGCTCGCCTTTATCCATTTTCCAGGTCCTCCACGTCCTCCTCTTC TTCCTCCCATCTGTTCCATCAAAGGTCCAGGGGGCCCCCAGGGCCACCTCGTCTCCTC CACCAAAGCCACCTCGGTCCATGCCCGGCCACCACGGAAGCCACCTCTGTCTCCACCAC GGCCACCTCTGAACATTCCACGGGACCACCACGATCCATGAGGCCACCTTCTCCTCCC GCATGCCACCAAGGCCACCTCTGCCACGATCACCACCGGGGGCGAAAGGTTGGCCGAA AGAAACCTTCAGCCTTTGGGGCCTTACTGTTGCACCTGTTCTCCAGCGAAGTTTT GGTTTCCACCCCGTATTGGGACACTGCAGTCTCCAACCTCGGGTGGACGTTTCTCCC AAAGGGTTCCTCGGAACCCGGGTCTTTGAAGGGAACCTCCTATTCTTCAGCCTTC TTGCACCAGGTTCCCAAGACTCCGGGCTCTGACTCCCGAAGGGTGGGCTGCCCTGCCTA CGGGGGCAAACCCCT
Restriction Sites:	NotI-NotI
ACCN:	NM_005243
Insert Size:	2330 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_005243.1</u> , <u>NP_005234.1</u>
RefSeq Size:	2679 bp
RefSeq ORF:	2679 bp
Locus ID:	2130
UniProt ID:	<u>Q01844</u>
Cytogenetics:	22q12.2
Domains:	RRM, zf-RanBP

Protein Families: Druggable Genome, Stem cell - Pluripotency, Transcription Factors

Gene Summary: 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]
Transcript Variant: This variant (2) lacks an alternate in-frame exon and uses an alternate in-frame splice site in the coding region, compared to variant 1. The resulting isoform (2) is shorter than isoform 1.