

## Product datasheet for **SC110886**

### **EWSR1 (NM\_013986) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	EWSR1 (NM_013986) Human Untagged Clone
Tag:	Tag Free
Symbol:	EWSR1
Synonyms:	bK984G1.4; EWS; EWS-FLI1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_013986, the custom clone sequence may differ by one or more nucleotides

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ATGGCGTCCACGGATTACAGTACCTATAGCCAAGTCGACGCGCAGCAGGGCTACAGTGCTTACACCGCCC
AGCCCACTCAAGGATATGCACAGACCACCCAGGCATATGGCAACAAAGCTATGGAACCTATGGACAGCC
CACTGATGTCAGCTATACCCAGGCTCAGACCACTGCAACCTATGGGCAGACCCGCTATGCAACTTCTTAT
GGACAGCCTCCCACTGTAGAAGGGACCAGTACAGGTTATACTACTCCAACCTGCCCCAGGCATACAGCC
AGCCTGTCCAGGGTATGGCACTGGTGCTTATGATACCACCACTGCTACAGTCACCACCACCCAGGCCTC
CTATGCAGCTCAGTCTGCATATGGCACTCAGCCTGCTTATCCAGCCTATGGGCAGCAGCCAGCAGCCACT
GCACCTACAAGACCGCAGGATGGAACAAGCCCACTGAGACTAGTCAACCTCAATCTAGCACAGGGGGTT
ACAACCAGCCAGCCTAGGATATGGACAGAGTAACTACAGTTATCCCAGGTACCTGGGAGCTACCCCAT
GCAGCCAGTCACTGCACCTCCATCCTACCCTCCTACCAGTATTCTCTACACAGCCGACTAGTTATGAT
CAGAGCAGTACTCTCAGCAGAACCTATGGCAACCGAGCAGCTATGGACAGCAGAGTAGCTATGGTC
AACAAAGCAGCTATGGGCAGCAGCTCCCACTAGTTACCCACCCCAAAGTGGATCTACAGCCAAGTCC
AAGTCAATATAGCCAACAGAGCAGCAGCTACGGGCAGCAGAGTTCAATCCGACAGGACCACCCAGTAGC
ATGGGTGTTTATGGGCAGGAGTCTGGAGGATTTCCGGACCAGGAGAGAACCAGGAGCATGAGTGGCCCTG
ATAACCGGGGAGGGGAAGAGGGGGATTGATCGTGGAGGCATGAGCAGAGGTGGGCGGGGAGGAGGACG
CGGTGGAATGGGCGCTGGAGAGCGAGGTGGCTTCAATAAGCCTGGTGGACCCATGGATGAAGGACCAGAT
CTTGATCTAGGCCACCTGTAGATCCAGATGAAGACTCTGACAACAGTGAATTTATGTACAAGGATTAA
ATGACAGTGTGACTCTAGATGATCTGGCAGACTCTTTAAGCAGTGTGGGGTTGTTAAGATGAACAAGAG
AACTGGCAACCCATGATCCACATCTACCTGGACAAGGAAACAGGAAAGCCAAAGGCGATGCCACAGTG
TCCTATGAAGACCCACCCACTGCCAAGGCTGCCGTGGAATGGTTGATGGGAAAGATTTCAAGGGAGCA
AACTTAAAGTCTCCCTTGTCTCGGAAGAAGCCTCCAATGAACAGTATGCGGGGTGGTCTGCCACCCGCTGA
GGCAGAGGCATGCCACCACCACTCCGTGGAGGTCAGGAGGCCAGGAGTCTGGGGGACCCATGGGT
CGCATGGGAGGCCGTGGAGGAGATAGAGGAGGCTTCCCTCCAAGAGGACCCCGGGGTTCCCGAGGGAACC
CCTCTGGAGGAGGAAACGTCCAGCACCGAGCTGGAGACTGGCAGTGTCCCAATCCGGGTTGTGGAACCA
GAACCTCGCCTGGAGAACAGAGTGAACCAAGTGAAGGCCCAAAGCCTGAAGGCTTCTCCCGCCACCC
TTTCCGCCCCGGGTGGTATCGTGGCAGAGGTGGCCCTGGTGGCATGCGGGGAGGAAGAGGTGGCTCA
TGGATCGTGGTGGTCCCGGTGGAATGTTACAGAGGTGGCCGTGGTGGAGACAGAGGTGGCTTCCGTGGTGG
CCGGGGCATGGACCGAGGTGGCTTGGTGGAGGAAGACGAGGTGGCCCTGGGGGGCCCCCTGGACCTTTG
ATGGAACAGATGGGAGGAAGAAGAGGAGGACGTGGAGGACCTGGAAAAATGGATAAAGGCGAGCACCGTC
AGGAGCGCAGAGATCGGCCCTACTAG
    
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**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_013986 unedited
NGGGTCAAAATTTGTATACGACTCATATAGGGCGCCGCGAATTCGCACGAGCGGACGT
TGAGAGAACGAGGAGGAAGGAGAGAAAAGCGTCCACGGATTACAGTACCTATAGCCAAG
CTGCAGCGCAGCAGGGCTACAGTGCTTACACCGCCAGCCCACTCAAGGATATGCACAGA
CCACCCAGGCATATGGGCAACAAAGCTATGGAACCTATGGACAGCCCACTGATGTCAGCT
ATACCCAGGCTCAGACCACTGCAACCTATGGGCAGACCGCCTATGCAACTTCTTATGGAC
AGCCTCCCACTGGTTATACTACTCCAACCTGCCCCAGGCATACAGCCAGCCTGTCCAGG
GGTATGGCACTGGTGCTTATGATACCACCACTGCTACAGTCACCACCACCCAGGCCTCCT
ATGCAGCTCAGTCTGCATATGGCACTCAGCCTGCTTATCCAGCCTATGGGCAGCAGCCAG
CAGCCACTGCACCTACAAGACCGCAGGATGGAACAAGCCCACTGAGACTAGTCAACCTC
AATCTAGCACAGGGGGTTACAACAGCCAGCCTAGGATATGGACAGAGTAACTACAGTT
ATCCCCAGGTACCTGGGAGCTACCCATGCAGCCAGTCACTGCACCTCCATCCTACCCCTC
TACCAGCTATTCTCTACACAGCCGACTAGTTATGATCAGAGCAGTTACTCTCAGCAGA
ACACCTATGGGCAACCGAGCAGCTATGGACAGCAGAGTAGCTATGGTCAACAAAGCAGCT
ATGGGCAGCAGCCTCCCACTAGTTACCCACCCCAAAGTGGATCTACAGCCAAGTCCAA
GTCAATATAGCCAACAGAGCAGCAGCTACGGGCAGCAGAGTTCAATCCGACAGGACC
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_013986 unedited CTATGAACCGCGCCCGCTTCTANAGTCGAGTT TTTAACATTTGGAAATTTATTTAAAAAATAACATCACAACCATGAACATTGT TACAGTTAAAAGGCCCTTTGGTTCTCCACAATGATACTGAGCATGCTCACAAGGGGTTCC CCATTGTTAAAGTCTTAAACAACATTTTTAAAAGAAGGAAAAAAAAAACTCCGCACA CTACCATTTAACTTGTTTTAATGTTTCTCACAAGGGGAAAAATACTAAAGTCCAGAC AAGGAATAATCATAATGTTGGGCCAACATTATAAATATGGAATTATAAATTTAAACAT TTTCTGGTTTAAAAATAAACCTGGTACCAATGCAGCTCTGCGGGCCTCTGCATCTAG TAGGGCCGATCTCTGCGCTCCTGACGGGCTCGCCTTTATCCATTTTTCCAGTCTCCCA CGTCTCTTTTTCTCTCCCATCTGTTCCATCAAAGTCCAGGGGGCCCCCAGGGCCA CCTTGTTCCTCCACCAAGCCACCTGGGTCCATGCCCGGCCACCACGGAAGCCACCT CTGTCTCCACCACGGCCACTTCTGAACATTCCACCGGGACCACCACGATCCATGAGGCCA CCTTCTCTCCCGCATGCCACCAGGGCCACCCTTGCCACGATCACCACCGGGGGCGG AAAAGGTGGCGGAAGAACCTTCAGGCTTGGGGCCTTACACTGGTTGCACTCTGTTCT CCAGGCGAAGTTCTGGTTCCACCACCCGGATTGGGACCCTGCCAGTCCACCTGGGC GCTGGACCGTTTCTCTCCACAAGGTTTCCCTTCGAAACCCCGGGTCTTTTGAGGGA AAGCCTTTTTTTCTCCACGGCTCCCATGCGAACCATGTGGCCCCCAGGACCTTCTG GCCTCCGAACCTCCGGGAGGGGTGGCATCCTCTGCTT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_013986
<b>Insert Size:</b>	2560 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_013986.1</a></u> , <u><a href="#">NP_053733.1</a></u>
<b>RefSeq Size:</b>	2694 bp
<b>RefSeq ORF:</b>	1752 bp
<b>Locus ID:</b>	2130
<b>UniProt ID:</b>	<u><a href="#">Q01844</a></u>
<b>Cytogenetics:</b>	22q12.2
<b>Domains:</b>	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 (1) represents the longest transcript and encodes the longest isoform (1).