

Product datasheet for **SC123802**

EWSR1 (BC000527) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EWSR1 (BC000527) Human Untagged Clone
Tag:	Tag Free
Symbol:	EWSR1
Synonyms:	bK984G1.4 (Ewing sarcoma breakpoint region 1 protein); Ewing sarcoma breakpoint region 1; Ewings sarcoma EWS-Fli1 (type 1) oncogene; EWS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for BC000527 edited

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GGGAGACGGACGTTGAGAGAACGAGGAGGAAGGAGAGAAAATGGCGTCCACGGATTACAG
TACCTATAGCCAAGCTGCAGCGCAGCAGGGCTACAGTGCTTACACCGCCAGCCCACTCA
AGGATATGCACAGACCACCCAGGCATATGGGCAACAAAGCTATGGAACCTATGGACAGCC
CACTGATGTCAGCTATACCCAGGCTCAGACCACTGCAACCTATGGGCAGACCGCCTATGC
AACTTCTTATGGACAGCCTCCCACTGGTTATACTACTCCAAGTCCCACTGCCCCCAGGCATACAG
CCAGCCTGTCCAGGGGTATGGCACTGGTCTTATGATACCACTGCTACAGTCAACCAC
CACCCAGGCCTCCTATGCAGCTCAGTCTGCATATGGCACTCAGCCTGCTTATCCAGCCTA
TGGGCAGCAGCCAGCAGCCACTGCACCTACAAGACCGCAGGATGGAAACAAGCCCACTGA
GACTAGTCAACCTCAATCTAGCACAGGGGGTTACAACCAGCCAGCCTAGGATATGGACA
GAGTAACTACAGTTATCCCAAGTACCTGGGAGCTACCCCATGCAGCCAGTCACTGCACC
TCCATCCTACCCTCCTACCAGCTATTCTCTACACAGCCGACTAGTTATGATCAGAGCAG
TACTCTCAGCAGAACACCTATGGGCAACCGAGCAGCTATGGACAGCAGAGTAGCTATGG
TCAACAAAGCAGCTATGGGCAGCAGCCTCCCACTAGTTACCCACCCAAACTGGATCCTA
CAGCCAAGCTCCAAGTCAATATAGCCAACAGAGCAGCTACGGGCAGCAGAGTTCATT
CCGACAGGACCACCCAGTAGCATGGGTGTTTATGGGCAGGAGTCTGGAGGATTTCCGG
ACCAGGAGAGAACCGGAGCATGAGTGGCCCTGATAACCGGGGCAGGGGAAGAGGGGGATT
TGATCGTGGAGGCATGAGCAGAGGTGGGCGGGGAGGAGGACGCGGTGGAATGGGGTTACA
AAGTGAGAGCCTTGTATACACTTCAATACTTAAAAAGTACCCGTAAGTCACTCAGTACTCAGCC
GCAGCATAATGAAAAGTGGGACTAGACACGGTGTCCATATGGAGAGGAAAAATATACATA
GAATATTTTTAAACAAAATGTATTATTGATAAATGGAATCCTTCTGTAACCTTTGGTAAC
TGCATACTTGTGTTGGTAATGAACCCAGAGGAGGTATAAATACTACTAGAATTGTGTAACA
TTAAAGTGTAACCTTTTGTGTTAAAAAAAAAAAAAAAAAAAAAAAAA

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5' Read Nucleotide Sequence:	>OriGene 5' read for BC000527 unedited NNGGCAGGTACCGNAATATTTGTNAATACGNATNCACTATNAGGGCGGCCGNAATTCC CACGAGGGGAGACGGACGTTGAGAGAACGAGGAGGAAGGAGAGAAAATGGCGTCCACGGA TTACAGTACCTATAGCCAAGCTGCAGCGCAGCAGGGCTACAGTGCTTACACCGCCAGCC CACTCAAGGATATGCACAGACCACCCAGGCATATGGGCAACAAAGCTATGGAACCTATGG ACAGCCCACTGATGTGACGTATACCCAGGCTCAGACCACTGCAACCTATGGGCAGACCGC CTATGCAACTTCTTATGGACAGCCTCCCACTGGTTATACTACTCCAACCTGCCCCAGCC ATACAGCCAGCCTGTCCAGGGGTATGGCACTGGTGCTTATGATACCACCACTGCTACAGT CACCACCACCCAGGCCTCCTATGCAGCTCAGTCTGCATATGGCACTCAGCCTGCTTATCC AGCCTATGGGCAGCAGCCAGCAGCCACTGCACCTACAAGACCGCAGGATGGAAACAAGCC CACTGAGACTAGTCAACCTCAATCTAGCACAGGGGTTACAACCAGCCAGCCTAGGATA TGGACAGAGTAACACTACAGTTATCCCAAGTACCTGGGAGCTACCCATGCAGCCAGTAC TGCACCTCCATCCTACCCTCCTACCAGTATTCTCTACACAGCCGACTAGTTATGATCA GAGCAGTTACTCTCAGCAGAACACCTATGGGCAACCGAGCAGCTATGGACAGCAGAGTAG CTATGGTCAACAAAGCAGCTATGGGCAGCAGCCTCCCACTAGTTACCCACCCAAACTGG ATCCTACAGCCAAGCTCCAAGTCAATATAGCCAACAGAGCAGCAGCTACGGNCAGCAAAG T
Restriction Sites:	Please inquire
ACCN:	BC000527
Insert Size:	1312 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>BC000527.2</u> , <u>AAH00527.1</u>
RefSeq Size:	1303 bp
Locus ID:	2130
Cytogenetics:	22q12.2
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]