

## Product datasheet for **SC327121**

### **EWSR1 (NM\_001163286) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	EWSR1 (NM_001163286) Human Untagged Clone
Tag:	Tag Free
Symbol:	EWSR1
Synonyms:	bK984G1.4; EWS; EWS-FLI1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

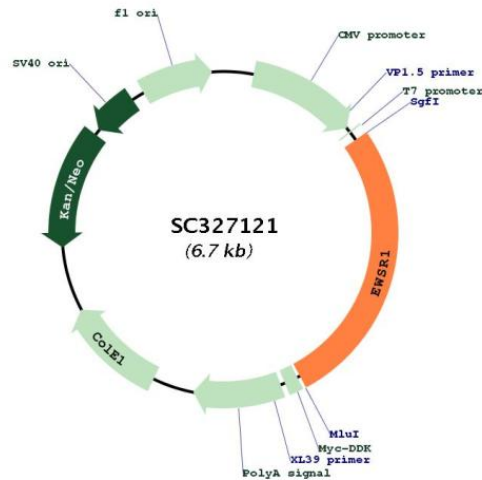


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Fully Sequenced ORF: >SC327121 representing NM\_001163286.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCGTCCACGGATTACAGTACCTATAGCCAAGCTGCAGCGCAGCAGGGCTACAGTGCTTACACCGCC
CAGCCCCTCAAGGATATGCACAGACCACCCAGGCATATGGCAACAAAGCTATGGAACCTATGGACAG
CCCACTGATGTCAGCTATACCCAGGCTCAGACCCTGCAACCTATGGGCAGACCGCTATGCAACTTCT
TATGGACAGCCTCCCACTGGTTATACTACTCCAACCTGCCCCCGAGGCATACAGCCAGCCTGTCCAGGGG
TATGGCACTGGTCTTATGATACCACCACTGCTACAGTCAACCACCCAGGCCTCTATGCAGCTCAG
TCTGCATATGGCACTCAGCCTGCTTATCCAGCCTATGGGCAGCAGCCAGCAGCCACTGCACCTACAAGC
TATTCCTCTACACAGCCGACTAGTTATGATCAGAGCAGTTACTCTCAGCAGAACACCTATGGCAACCG
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CCACCCAAACTGGATCCTACAGCCAAGCTCCAAGTCAATATAGCCAACAGAGCAGCAGCTACGGGCAG
CAGAGTTCATTCCGACAGGACCACCCAGTAGCATGGGTGTTTATGGGCAGGAGTCTGGAGATTTTCC
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GGAGGCATGAGCAGAGGTGGGCGGGGAGGAGGACGCGGTGGAATGGGCAGCGCTGGAGAGCGAGGTGGC
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GCTGCCGTGGAATGGTTTGTATGGGAAAGATTTTCAAGGGAGCAAACCTAAAGTCTCCCTTGCTCGGAAG
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CGTGGAGGTCCAGGAGGCCAGGAGGTCTGGGGGACCCATGGGTGCGATGGGAGGCCGTGGAGGAGAT
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CACCGAGCTGGAGACTGGCAGTGTCCCAATCCGGGTTGTGGAACCCAGAAGTTCGCTGGAGAACAGAG
TGCAACCAGTGTAAAGCCCAAGCCTGAAGGCTTCTCCCGCCACCCCTTCCGCCCCGGGTGGTGGT
CGTGGCAGAGGTGGCCCTGGTGGCATGCGGGGAGGAAGAGGTGGCCTCATGGATCGTGGTGGTCCCGGT
GGAATGTTGAGAGGTGGCCGTGGTGGAGACAGAGGTGGCTTCCGTGGTGGCCGGGCATGGACCGAGGT
GGCTTTGGTGGAGGAAGACGAGGTGGCCCTGGGGGGCCCTGGACCTTTGATGGAACAGATGGGAGGA
AGAAGAGGAGGACGTGGAGGACCTGAAAAATGGATAAAGGCGAGCACCGTCAGGAGCGCAGAGATCGG
CCCTACTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI

**Plasmid Map:**


**ACCN:** NM\_001163286

**Insert Size:** 1803 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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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:**

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:** [NM\\_001163286.1](#)

**RefSeq Size:** 2511 bp

**RefSeq ORF:** 1803 bp

**Locus ID:** 2130

**UniProt ID:** [Q01844](#)

**Cytogenetics:** 22q12.2

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

**MW:** 62.5 kDa

**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 (4) lacks two alternate in-frame exons and uses an alternate in-frame splice site in the coding region, compared to variant 1. The resulting isoform (4) is shorter than isoform 1.