

## Product datasheet for **SC322277**

### **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: | Neomycin                               |
| Vector:                   | pCMV6-AC (PS100020)                    |
| E. coli Selection:        | Ampicillin (100 ug/mL)                 |



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**Fully Sequenced ORF:** >OriGene sequence for SC322277  
 CTAGTTCTAGATCGCGAGCGCGGAAAATGGCGTCCACGGATTACAGTACCTATAGCCAA  
 GCTGCAGCGCAGCAGGGCTACAGTGCTTACACCGCCCAGCCCACTCAAGGATATGCACAG  
 ACCACCCAGGCATATGGGCAACAAAGCTATGGAACCTATGGACAGCCCACTGATGTCAGC  
 TATACCCAGGCTCAGACCACTGCAACCTATGGGCAGACCCCTATGCAACTTCTTATGGA  
 CAGCCTCCCCTGTTTATACTACTCCAAGTGCACAGTACAGTACAGTACAGTACAGTACAGT  
 GGGTATGGCACTGGTGTATGATACCACCACTGCTACAGTACAGTACAGTACAGTACAGT  
 TATGCAGCTCAGTCTGCATATGGCACTCAGCCTGCTTATCCAGCCTATGGGCAGCAGCCA  
 GCAGCCACTGCACCTACAAGACCGCAGGATGGAACAAGCCCACTGAGACTAGTCAACCT  
 CAATCTAGCACAGGGGTTACAACCAACCCAGCCTAGGATATGGACAGAGTAACTACAGT  
 TATCCCCAGGTACCTGGGAGCTACCCCATGCAGCCAGTCACTGCACCTCCATCCTACCCT  
 CCTACCAGCTATTCTCTACACAGCCGACTAGTTATGATCAGAGCAGTACTCTCAGCAG  
 AACACCTATGGGCAACCGAGCAGCTATGGACAGCAGAGTAGCTATGGTCAACAAAGCAGC  
 TATGGGCAGCAGCCTCCCCTAGTTACCCACCCAAACTGGATCCTACAGCCAAGCTCCA  
 AGTCAATATAGCCAACAGAGCAGCAGCTACGGGCAGCAGAGTTTCATTCCGACAGGACCAC  
 CCCAGTAGCATGGGTGTTTATGGGCAGGAGTCTGGAGGATTTTCCGGACCAGGAGAGAAC  
 CCGAGCATGAGTGGCCCTGATAACCGGGGCAGGGGAAGAGGGGGATTTGATCGTGGAGGC  
 ATGAGCAGAGGTGGGCGGGGAGGAGGACCGGTGGAATGGGCGCTGGAGAGCGAGGTGGC  
 TTCAATAAGCCTGGTGGACCCATGGATGAAGGACCAGATCTTGATCTAGGCCACCTGTA  
 GATCCAGATGAAGACTCTGACAACAGTGCATTTATGTACAAGGATTAATGACAGTGTG  
 ACTCTAGATGATCTGGCAGACTTCTTTAAGCAGTGTGGGGTTGTTAAGATGAACAAGAGA  
 ACTGGGCAACCCATGATCCACATCTACCTGGACAAGGAAACAGGAAAGCCAAAGGCGAT  
 GCCACAGTGTCTATGAAGACCCACCCACTGCCAAGGCTGCCGTGGAATGGTTTGTATGGG  
 AAAGATTTTCAAGGGAGCAAACTTAAAGTCTCCCTTCTCGGAAGAAGCCTCCAATGAAC  
 AGTATGCGGGGTGGTCTGCCACCCCGTGGAGGCAGAGGCATGCCACCACCACTCCGTGGA  
 GGTCCAGGAGGCCAGGAGGTCTGGGGGACCCATGGGTGCGATGGGAGGCCGTGGAGGA  
 GATAGAGGAGGCTTCCCTCCAAGAGGACCCCGGGTTCAGAGGGAACCCCTCTGGAGGA  
 GGAAACGTCCAGCACCGAGCTGGAGACTGGCAGTGTCCAATCCGGTGTGGAAACCAG  
 AACTTCGCTGGAGAACAGAGTGAACCAAGTGAAGGCCCAAAGCCTGAAGGCTTCTC  
 CCGCCACCCTTCCGCCCGGGTGGTATCGTGGCAGAGGTGGCCCTGGTGGCATGCGG  
 GGAGGAAGAGGTGGCCTCATGGATCGTGGTGGTCCCGGTGGAATGTTAGAGGTGGCCGT  
 GGTGGAGACAGAGGTGGCTTCCGTGGTGGCCGGGCATGACCGAGGTGGCTTTGGTGGGA  
 GGAAGACGAGGTGGCCCTGGGGGGCCCCCTGGACCTTTGATGGAACAGATGGGAGGAAGA  
 AGAGGAGGACGTGGAGGACCTGGAAAAATGGATAAAGGCGAGCACCGTCAGGAGCGCAGA  
 GATCGGCCCTACTAGATGCAGAGACCCCGCAGAGCTGCATTGACTACCAGATTTATTTTT  
 TAAACCAGAAAATGTTTTAAATTTATAATTCCATATTTATAATGTTGGCCACAACATAAT  
 GATTATTCCTTGTCTGTACTTTAGTATTTTTACCATTTGTGAAGAAACATTAACAAG  
 TTAATGGTAGTGTGCGGAGTTTTTTTTTCTTCTTCTTTAAAAATGGTTGTTAAGAC  
 TTTAAACAATGGGAACCCCTTGTGAGCATGCTCAGTATCATTGTGGAGAACCAAGAGGGCC  
 TCTTAACTGTAACAATGTTCAATGGTGTGATGTTTTTTTTTTTTTTTTTAAATAAAATTC  
 CAAATGTTAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_005243

**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).

|                               |   |
|-------------------------------|---|
| <b>OTI Annotation:</b>        | 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.  |
| <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>                | <a href="#">NM_005243.2</a> , <a href="#">NP_005234.1</a>   |
| <b>RefSeq Size:</b>           | 2644 bp   |
| <b>RefSeq ORF:</b>            | 1971 bp   |
| <b>Locus ID:</b>              | 2130  |
| <b>UniProt ID:</b>            | <a href="#">Q01844</a>  |
| <b>Cytogenetics:</b>          | 22q12.2   |
| <b>Domains:</b>               | RRM, zf-RanBP   |
| <b>Protein Families:</b>      | Druggable Genome, Stem cell - Pluripotency, Transcription Factors   |
| <b>Gene Summary:</b>          | <p>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]</p> <p>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.</p> |