

Product datasheet for **RC223794**

EWSR1 (NM_013986) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | EWSR1 (NM_013986) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| 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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ORF Nucleotide Sequence:

>RC223794 representing NM_013986
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGTCCACGGATTACAGTACCTATAGCCAAGCTGCAGCGCAGCAGGGCTACAGTGTACACCGCCC
 AGCCCACTCAAGGATATGCACAGACCACCCAGGCATATGGGCAACAAAGCTATGGAACCTATGGACAGCC
 CACTGATGTCAGCTATACCCAGGCTCAGACCCTGCAACCTATGGGCAGACCCGCCTATGCAACTTCTTAT
 GGACAGCCTCCCCTGTTATACTACTCCAACCTGCCCCCAGGCATACAGCCAGCCTGTCCAGGGGTATG
 GCACTGGTGTATGATACCACCCTGCTACAGTACCACCACCCAGGCCTCCTATGCAGCTCAGTCTGC
 ATATGGCACTCAGCCTGTTATCCAGCCTATGGGCAGCAGCCAGCAGCCACTGCACCTACAAGACCCGAC
 GATGGAACAAGCCCACTGAGACTAGTCAACCTCAATCTAGCACAGGGGGTTACAACCAGCCAGCCTAG
 GATATGGACAGAGTAACACAGTATCCCAGGTACCTGGGAGCTACCCCATGCAGCCAGTCACTGCACC
 TCCATCCTACCCTCCTACCAGCTATTCCTCTACACAGCCGACTAGTTATGATCAGAGCAGTTACTCTCAG
 CAGAACACCTATGGGCAACCCGAGCAGCTATGGACAGCAGAGTAGCTATGGTCAACAAAGCAGCTATGGGC
 AGCAGCCTCCCCTAGTTACCCACCCCAAACCTGGATCCTACAGCCAAGCTCCAAGTCAATATAGCCAACA
 GAGCAGCAGCTACGGGCAGCAGAGACCCATGGATGAAGGACCAGATCTTGATCTAGGCCCTCCTGTAGAT
 CCAGATGAAGACTCTGACAACAGTGAATTTATGTACAAGGATTAATGACAGTGTGACTCTAGATGATC
 TGGCAGACTTCTTAAGCAGTGTGGGGTGTAAAGATGAACAAGAGAAGTGGGCAACCCATGATCCACAT
 CTACCTGGACAAGGAAACAGGAAAGCCAAAGGCGATGCCACAGTGTCTATGAAGACCCACCCACTGCC
 AAGGCTGCCGTGGAATGGTTTGTGGGAAAGATTTCAAGGGAGCAAACCTAAAGTCTCCCTTGTCTCGGA
 AGAAGCTCCAATGAACAGTATGCGGGTGGTCTGCCACCCCTGAGGGCAGAGGCATGCCACCCACT
 CCGTGGAGGTCCAGGAGCCAGGAGGTCTGGGGGACCCATGGTTCGCATGGGAGGCCGTGGAGGAGAT
 AGAGGAGGCTTCCTCCAAGAGGACCCCGGGTCCCGAGGGAACCCCTCTGGAGGAGGAAACGTCACGC
 ACCGAGCTGGAGACTGGCAGTGTCCAATCCGGTGTGGAAACCAAGTTCGCCTGGAGAACAGAGTG
 CAACCAGTGAAGGCCCAAAGCCTGAAGGCTTCTCCCGCCACCCTTCCGCCCCGGGTGGTATCGT
 GGCAGAGTGGCCCTGGTGGCATGCGGGGAGGAAGAGGTGGCCTCATGGATCGTGGTGGTCCCGGTGGA
 TGTTCCAGAGTGGCCGTGGTGGAGACAGAGGTGGCTTCCGTGGTGGCCGGGGCATGGACCGAGTGGCTT
 TGGTGGAGGAAGACGAGTGGCCCTGGGGGCCCTGGACCTTGTATGGAACAGATGGGAGGAAGAAGA
 GGAGGACGTGGAGACCTGGAAAATGGATAAAGCGCAGCACCGTCAGGAGCGCAGAGATCGGCCCTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC223794 representing NM_013986
 Red=Cloning site Green=Tags(s)

MASTDYSTYSQAAAQQGYSAYTAQPTQGYAQTQAYGQQSYGTYGQPTDVSYTQAQTTATYQQTAYATSY
 GQPPTGYTTPTAPQAYSQPVQGYGTGAYDTTATVTTTQASYAAQSAYGTQPAYPAYGQQPAATAPTRPQ
 DGNKPTETSQPQSSTGGYNQPSLGYGQSNYSYPQVPGSYPMQPVTAAPPYPPTSYSSTQPTSYPDQSSYSQ
 QNTYGGPSSYQQSSYGGQSSYQQPPTSYPPTGYSYSQAPSQYSQQSSSYGQQRPMDEGPDLDLGPVVD
 PDESDNSAIYVQGLNDSVTLDDLADDFKQCGVVKMKNKRTGQPMIHIYLDKETGKPKGDATVSYEDPPTA
 KAAVEWFDGKDFQGSKLKVS LARKKPPMNSMRGGLPPREGRMPPPLRGGPGGPGGPMGRMGRGGD
 RGGFPPRGRGSRGNPSGGNVQHRAGDWQCPNPGCGNQNFARWTECNQCKAPKPEGFLPPFPFPPGGDR
 GRGGPGMRGGRGGLMDRGGPGMFRGGRRGGDRGGFRGGRRGMDRGGFGGRRGGPGPPGLMEQMGGRR
 GGRGGPGKMDKGEHRQERRDRPY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6594_h07.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_013986

ORF Size: 1749 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_013986.1](#), [NP_053733.1](#)

RefSeq Size: 1807 bp

RefSeq ORF: 1986 bp

Locus ID: 2130

UniProt ID: [Q01844](#)

Cytogenetics: 22q12.2

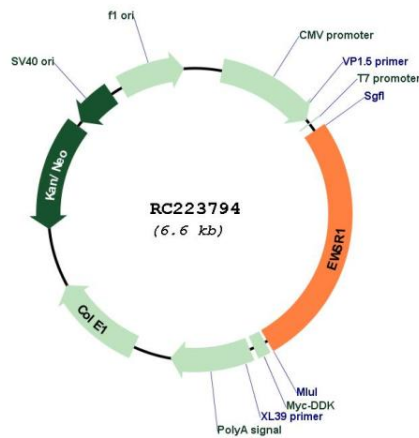
Domains: RRM, zf-RanBP

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

MW: 61.29 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]

Product images:



Circular map for RC223794