

Product datasheet for **RG228486**

EWSR1 (NM_001163286) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EWSR1 (NM_001163286) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EWSR1
Synonyms:	bK984G1.4; EWS; EWS-FLI1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG228486 representing NM_001163286
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGTCCACGGATTACAGTACCTATAGCCAAGCTGCAGCGCAGCAGGGCTACAGTGCTTACACCGCCC
 AGCCCACTCAAGGATATGCACAGACCACCCAGGCATATGGGCAACAAAGCTATGGAACCTATGGACAGCC
 CACTGATGTCAGCTATACCCAGGCTCAGACCCTGCAACCTATGGGCAGACCCGCCTATGCAACTTCTTAT
 GGACAGCCTCCCCTGTTATACTACTCCAAGTCCCGCCAGGCATACAGCCAGCCTGTCCAGGGGTATG
 GCACTGGTGCTTATGATACCACCCTGCTACAGTACCACCACCCAGGCCTCCTATGCAGCTCAGTCTGC
 ATATGGCACTCAGCCTGCTTATCCAGCCTATGGGCAGCAGCCAGCAGCCACTGCACCTACAAGCTATTCC
 TCTACACAGCCGACTAGTTATGATCAGAGCAGTTACTCTCAGCAGAACACCTATGGGCAACCGAGCAGCT
 ATGGACAGCAGAGTAGCTATGGTCAACAAAGCAGCTATGGGCAGCAGCCTCCCCTAGTTACCCACCCCA
 AACTGGATCCTACAGCCAAGCTCCAAGTCAATATAGCCAACAGAGCAGCAGCTACGGGCAGCAGAGTTCA
 TTCCGACAGGACCACCCAGTAGCATGGGTGTTTATGGGCAGGAGTCTGGAGGATTTCCGGACCAGGAG
 AGAACCGGAGCATGAGTGGCCCTGATAACCGGGGCAAGGAGGGGGATTGATCGTGGAGGCATGAG
 CAGAGGTGGGCGGGGAGGAGGACGCGGTGGAATGGGCAGCGCTGGAGAGCGAGGTGGCTTCAATAAGCCT
 GGTGGACCCATGGATGAAGGACCAGATCTTGATCTAGGCCACCTGTAGATCCAGATGAAGACTCTGACA
 ACAGTGAATTTATGTACAAGGATTAATGACAGTGTGACTCTAGATGATCTGGCAGACTCTTTAAGCA
 GTGTGGGTTGTTAAGATGAACAAGAGAAGTGGCAACCCATGATCCACATCTACCTGGACAAGGAAACA
 GAAAGCCCAAGGCGATGCCACAGTGTCTATGAAGACCCACCCACTGCCAAGGCTGCCGTGGAATGGT
 TTGATGGGAAAGATTTTCAAGGGAGCAAACTTAAAGTCTCCCTGCTCGGAAGAAGCCTCCAATGAACAG
 TATGCGGGGTGGTCTGCCACCCGTGAGGGCAGAGGCATGCCACCACCACTCCGTGGAGGTCCAGGAGGC
 CCAGGAGTCTGGGGGCCCATGGTTCGATGGGAGGCCGTGGAGGAGATAGAGGAGGCTTCCCTCCAA
 GAGGACCCCGGGTTCGAGGGAAACCCCTCTGGAGGAGGAAACGTCCAGCACCGAGCTGGAGACTGGCA
 GTGTCCCAATCCGGTGTGAAACCAGAACTTCGCTGGAGAACAGAGTGAACAGGTGAAGGCCCA
 AAGCCTGAAGGCTTCTCCCGCCACCTTTCGCCCCGGGTGGTATCGTGGCAGAGGTGGCCCTGGT
 GCATGCGGGGAGGAGAGGTGGCCTCATGGATCGTGGTGGTCCCGGTGGAATGTTAGAGGTGGCCGTGG
 TGGAGACAGAGGTGGCTTCCGTGGTGGCCGGGCATGGACCGAGGTGGCTTGGTGGAGGAAAGCAGGT
 GGCCTGGGGGCCCTGGACCTTGGATGGAACAGATGGGAGGAAGAAGAGGAGGACGTGGAGGACCTG
 GAAAAATGGATAAAGCGCAGCACCGTCAAGAGCGCAGAGATCGGCCCTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG228486 representing NM_001163286
 Red=Cloning site Green=Tags(s)

MASTDYSTYSQAAAQQGYSAYTAQPTQGYAQTQAYGQQSYGTYGQPTDVSYTQAQTTATYQQTAYATSY
 GQPPTGYTTPTAPQAYSQPVQGYGTGAYDTTATVTTTQASYAAQSAYGTQPAYPAYGQQPAATAPTSYS
 STQPTSVDQSSYSQQNTYQPPSSYGQQSSYGQQSSYQPPPTSYPPQTGSYSQAPSQYSQQSSSYGQQSS
 FRQDHPSSMGVYQESGGFSGPGENRSMSPDNRGRGRGGFDRGGMSRGGRRGGGMSAGERRGFNKP
 GGPMDGPDLDLGPVDPDESDNSAIYVQGLNDSVTLDDLADFFKQCGVVKMNKRTGQPMIHIYLDKET
 GKPKGDATVSYEDPPTAKAAVEWFDGKDFQGSKLKVS LARKKPPMNSMRGGLPPREGRMPPPLRGGPGG
 PGGPGGPMGRMGGRRGGFPPRGPRGSRGNPSGGGNVQHRAGDWQCPNPGCGNQNF AWRTECNQCKAP
 KPEGFLPPFPFPPGGDRGRGGPGRGGGLMDRGGPGMFRGGRRGGDRGGFRGGRRMDRGGFRGGRRR
 GPGGPPGLMEQMGRRGGRRGGPKMKDKEHRQERRDRPY

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001163286

ORF Size: 1800 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_001163286.2](#)

RefSeq Size: 2511 bp

RefSeq ORF: 1803 bp

Locus ID: 2130

UniProt ID: [Q01844](#)

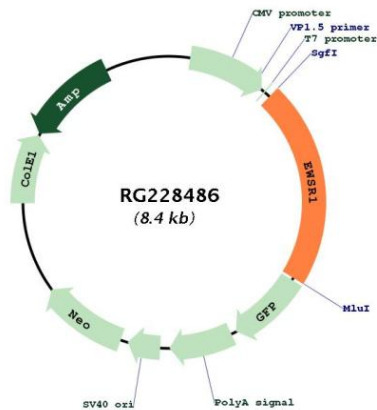
Cytogenetics: 22q12.2

Protein Families:

Druggable Genome, Stem cell - Pluripotency, Transcription Factors

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 RG228486