

Product datasheet for **RC224425**

ZRSR2 (NM_005089) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	ZRSR2
Synonyms:	U2AF1-RS2; U2AF1L2; U2AF1RS2; URP; ZC3H22
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC224425 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGCGCCCGAGAAGATGACGTTTCCCGAGAAACCAAGCCACAAAAAGTACAGGGCCGCCCTGAAGA
 AGGAGAAACGAAAGAAACGTCGGCAGGAACCTGCTCGACTGAGAGACTCAGGACTCTCACAGAAGGAGGA
 AGAGGAGGACACTTTTATTGAAGAACAACACTAGAAGAAGAGAAGCTATTGGAAGAGAGAGGCAAGA
 TTACATGAGGAGTGGTTGCTAAGAGAGCAGAAGGCACAAGAAGAATTGAGAATAAGAAGGAAAAGGAAG
 AGGCGGCTAAAAACGGCAAGAAGAACAAGAGAGAAAGTTAAAGGAACAATGGGAAGAACAGCAGAGGAA
 AGAGAGAGAAGAGGAGGAGCAGAAACGACAGGAGAAGAAAGAAAAAGAGGAAGCTTTGCAGAAGATGCTG
 GATCAGGCTGAAAAATGAGTTGGAAAATGGTACCACATGGCAAAACCCAGAACCACCCGTGGATTTTCAGAG
 TAATGGAGAAGGATCGAGCTAATTGTCCCTTCTACAGTAAACAGGAGCTTGCAGATTTGGAGATAGATG
 TTCACGTAAACATAATTTCCCAACATCCAGTCTACCCTTCTTATTAAGAGCATGTTTACGACGTTTGA
 ATGGAGCAGTGCAGGAGGGATGACTATGACCCTGACGCAAGCCTGGAGTACAGCGAGGAAGAAACCTACC
 AACAGTTTCTAGACTTCTATGAGGATGTGTGCCCAGTTCAGAAGCTGGGGAAGTGATTTCAGTTCAA
 GGTCAGCTGCAATTTGGAACCTCACCTGAGGGGCAATGTATATGTTTCAGTACCAGTCGAAGAAGAATGC
 CAAGCAGCCCTTTCTCTGTTTAACGGACGATGGTATGCAGGACGACAGCTGCAGTGTGAATTCGCCCGG
 TGACCCGGTGGAAAATGGCGATTTGTGGTTTATTGAAATACAACAATGTCCAAGAGGAAAGCACTGCAA
 CTTTCTTCATGTGTTTCAGAAATCCCAACAATGAATTCTGGGAAGCTAATAGAGACATCTACTTGTCTCCA
 GATCGGACTGGCTCCTCTTTGGGAAGAACTCCGAAAGGAGGGAGAGGATGGGCCACCAACGACGACTACT
 ACAGCAGGCTGCGGGGAAGGAGAAACCTAGTCCAGACCACTCTACAAAAGAAATGGGGAATCCGAGAG
 GAAAAGTAGTCGTACAGGGGGGAAGAAATCTCACAACGCACATCAAGAGTCGGGAGAGGCACAATTCA
 CGAAGCAGAGGAAGAAATAGGGACCGCAGCAGGACCGCAGCCGGGGCCGGGGCAGCCGGAGCCGGAGCC
 GGAGCCGGAGCCGAGGAGCCGCCGAGCCGAGCCGAAAGTTCTCTAGGTCCCGAAGTCGTGGCAGGAG
 GAGTCCGGTAATAGAGACAGAACTGTTTCAGAGTCCCAATCCAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC224425 protein sequence
 Red=Cloning site Green=Tags(s)

MAAPEKMTFPEKPSHKKYRAALKKEKRKKRRQELARLRDSSLQKEEEEDTFIEEQQLLEEKLLERERQR
 LHEEWLLREQKAQEEFRIKKEKEEAAKKRQEEQERKLKEQWEEQQRKEREQEKKEKEEALQKML
 DQAENELNGTTWQNPPEPPVDFRVMEKDRANCFYSKGTACRFGRDCSRKHNFPTSSPTLLIKSMFTTFG
 MEQCRDDYDPDASLEYSEEETQQFLDFYEDVLPFKNVGVQFKVSCNLEPHLRGNVYVQYQSEEEC
 QAALSLFNGRWYAGRQLQCEFCPVTRWKMAICGLFEIQCPRGKHCNLFHVRPNNEFWANRDIYLS
 DRTGSSFGKNSERRERMGHDDYYSRLRGRNRPSPDHSYKRNSESERKSSRHGKSKSHKRTSKSRERHNS
 RSRGRNDRSRDRSRGRGSRSRSRSSRRSSRSQSSSRSRSGRRRSRGNDRDTVQSPKSK

TRTRPLE**QKLISEEDLA**AND**ILDYKDDDDKV**

Chromatograms: https://cdn.origene.com/chromatograms/mk6461_c11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005089

ORF Size: 1446 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

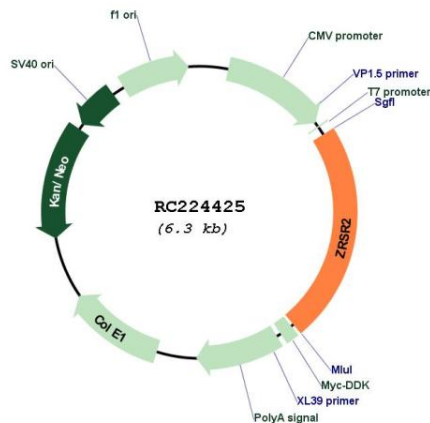
RefSeq: [NM_005089.4](#)

RefSeq Size: 1512 bp

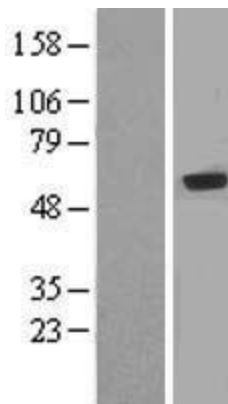
RefSeq ORF:	1449 bp
Locus ID:	8233
UniProt ID:	Q15696
Cytogenetics:	Xp22.2
Domains:	RRM, zf-CCCH, RRM_1
MW:	58 kDa

Gene Summary: This gene encodes an essential splicing factor. The encoded protein associates with the U2 auxiliary factor heterodimer, which is required for the recognition of a functional 3' splice site in pre-mRNA splicing, and may play a role in network interactions during spliceosome assembly. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC224425



Western blot validation of overexpression lysate (Cat# [LY417528]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224425 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).