

## Product datasheet for **RC211770**

### **KSR1 (NM\_014238) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KSR1 (NM_014238) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KSR1
Synonyms:	KSR; RSU2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC211770 representing NM\_014238  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAATGAGGCCAAGGTGAAGGAGACGCTGCGGCCTGTGGGCCAGCGGGATGAGTGTGGCCGTCTGC  
 AGTATGCCCTCACCTGCCTGCGGAAGGTGACAGGCCTGGGAGGGGAGCACAAAGGAGGACTCCAGTTGGAG  
 TTCATTGGATGCGCGCGGAAAGTGGCTCAGGGCCTTCACGGACACCTCTCAGCAGCCAGCCTGCC  
 TGGCCCCAGGGAGCTCCAGCTGGGCAGAGCAGGCAACAGCGCCAGGGCCACGCTCCATCTCCGTGT  
 CAGCTCTGCCGCTCAGACTCCCCACCCACAGCTTCAGTGAGGGCTCTCAGACACCTGTATTCCCT  
 GCACGCCAGCGCGCGCTGACCCCGTGCCTGCACAGCTTCATCACCCGCCACCACACCCAGCTG  
 CGACGGCACCAAGCTGAAGCCACCACGGACGCCCCCCCCACCCAGCCGAAGTCTTCCAGCTGCTGC  
 CCAGTTCCCACACTCACCCGGAGCAAGTCCCATGAGTCTCAGCTGGGAACCGCATTGATGACGTCTC  
 CTGATGAGGTTTATCTCTCGCATGGATCCCCACAGATGGTACGGAGGGATATCGGGCTGTCGGTGACG  
 CACAGTTCTCCACCAAGTCTGGCTGTCGAGGTCTGCCACGTGTCCAGAAGAGCATGATATTTGGAG  
 TGAAGTGAAGCATTGCAGGTTGAAGTGTCAACAATGTACCAAGAAGCCCTGCCTGTAGAATATC  
 TTCTGCCACTAACTCGGCTTCGGAGGACAGAATCTGTCCCCTCGGACATCAACAACCCGGTGGACAGA  
 GCAGCCGAACCCATTTTGAACCTCCCCAAAGCACTGACAAAGAAGGAGCACCTCCGGCCATGAATC  
 ACCTGGACTCCAGCAGCAACCTTCTCCACCCTCTCCACACCTCTCACCCGCGCCCTCCCGAC  
 ATCATCAACCCATCCAGCGCCACCACGCCCCCAACCCCTCACCTGGCCAGCGGGACAGCAGTTCAAC  
 TTCCCAGCTGCCTACTTCATTTCATAGACAGCAGTTTATCTTCCAGTGCCATCTGCTGGCCATTGCT  
 GGAAATGCCTCCTTATTGCAGAAAGTTTAAAGGAAAACGTTTCAACATTTAGCCTTTGCACACGCAGC  
 CCCGCTCCTGAAGCTGCCGACGGTACCCGGCTCGATGACCAGCCGAAAGCAGATGTGTTGGAAGCTCAC  
 GAAGCGGAGGCTGAGGAGCCAGAGGCTGGCAAGTCAAGGAGCAGAAGACGATGAGGACGAGGTGGACGACT  
 TGCCGAGCTCTCGCCGGCCCTGGCGGGGCCCATCTCTCGCAAGGCCAGCCAGACCAGCGTGTACCTGCA  
 GGAGTGGGACATCCCCTTCGAGCAGGTAGAGCTGGGCGAGCCATCGGGCAGGGCCGCTGGGGCCGGGTG  
 CACCGCGCCGCTGGCATGGCGAGGTGGCCATTGCTGCTGGAGATGGACGGCCACAACCAGGACCACC  
 TGAAGCTTTCAAGAAAGAGGTGATGAACTACCGGCAGACCGGCATGAGAACGTGGTCTTTCATGGG  
 GGCTGCATGAACCCGCCACCTGGCCATTATACCAGCTTCTGCAAGGGCGGACGTTGCACTCGTTT  
 GTGAGGGACCCCAAGACGTCTCTGGACATCAACAAGACGAGGCAATCGCTCAGGAGATCATCAAGGGCA  
 TGGGATATCTTCATGCCAAGGGCATCGTACACAAGATCTCAAATCTAAGAACGTCTTATGACAACGG  
 CAAGGTGGTCATCACAGACTTCGGGCTGTTTGGGATCTCAGGCGTGGTCCGAGAGGGACGGCGTGAGAAC  
 CAGCTAAAGCTGTCCCACGACTGGCTGTGCTATCTGGCCCTGAGATTGTACGCGAGATGACCCCGGGA  
 AGGACGAGGATCAGCTGCCATTCTCAAAGCTGCTGATGTCTATGCATTGGGACTGTTTGGTATGAGCT  
 GCAAGCAAGAGACTGGCCCTTGAAGAACCAGGCTGCAGAGGCATCCATCTGGCAGATTGGAAGCGGGAA  
 GGAATGAAGCGTGTCTGACTTCTGTGAGCTTGGGGAAGGAAGTCAGTGAGATCCTGTCCGCTGCTGGG  
 CTTTCGACCTGCAGGAGAGACCCAGCTTCAGCTGCTGATGGACATGCTGGAGAACTTCCAAGCTGAA  
 CCGCGGCTCTCCACCCTGGACACTTCTGGAAGTCAGCTGAGTTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC211770 representing NM\_014238  
 Red=Cloning site Green=Tags(s)

MNEAKVKETLRRCGASGDECGRLQYAL TCLRKVTGLGGEHKEDSSWSSLDARRESGSGPSTDTLSAASLP  
 WPPGSSQLGRAGNSAQGPRISVSALPASDSPTPSFSEGLSDTCIPLHASGRLTPRALHSFITPPTTPQL  
 RRHTKLKPPRTPPPSRKVFQLLPSFPTLTRSKSHESQLGNRIDDVSSMRFDLSHGSPQMVRDIDL SVT  
 HRFSTKSWLSQVCHVCQKSMIFGVKCKHCRLKCHNKCTKEAPACRISFLPLTRLRRTESVPSDINNPDVDR  
 AAEPHFGLPKALTKKEHPPAMNHL DSSSNPSSSTSSTPSSPAPFPTSSNPSSATTPPNPSPGQRDSRFN  
 FPAAYFIHHRQQFIFPVPSAGHCWKCLLIAESLKENAFNISAF AHAAPLPEAADGTRLDQPKADVLEAH  
 EAEAEPEAGKSEAEDDEDEVDLPSRRPWGPI SRKASQTSVYLQEWDPFEQVELGEPIGQGRWGRV  
 HRGRWHGEVAIRLLEMDGHNQDHLKLFKKEVMNYRQTRHENVVLFMGACMPPHLAII TSFCKGRTLHSF  
 VRDPKTSLDINKTRQIAQEIIKGMGYLHAKGIVHKDLKSKNVFYDNGKVITDFGLFGISGVVREGREN  
 QLKLSHDWLCYLAPEIVREMPGKDEDQLPFSKAADVAFGTWVYELQARDWPLKNQAAEASIWQIGSGE  
 GMKRVLTSVSLGKEVSEILSACWAFDLQERPSFLLMDMLEKLPKLNRRLSHPGHFWKS AEL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_014238

**ORF Size:** 2286 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\\_014238.2](#)

**RefSeq Size:** 4552 bp

**RefSeq ORF:** 2289 bp

**Locus ID:** 8844

**UniProt ID:** [Q8IVT5](#)

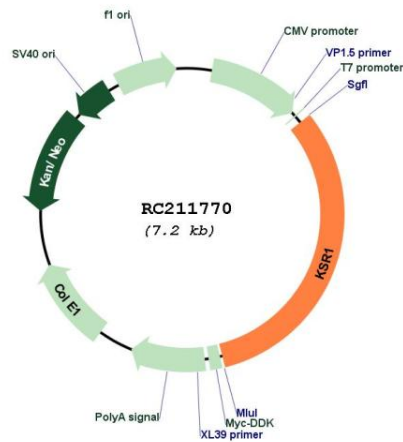
**Cytogenetics:** 17q11.2

**Protein Families:** Druggable Genome, Protein Kinase

**MW:** 84.5 kDa

**Gene Summary:** Scaffolding protein that is part of a multiprotein signaling complex. Promotes phosphorylation of Raf family members and activation of downstream MAP kinases. Promotes activation of MAPK1 and/or MAPK3, both in response to EGF and to cAMP. Does not have kinase activity by itself.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for RC211770