

Product datasheet for **SC318393**

KSR2 (NM_173598) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KSR2 (NM_173598) Human Untagged Clone
Tag:	Tag Free
Symbol:	KSR2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_173598 edited
 ACAGTTGGTACCGCCACCATGATAGACTTGAGCATCTCCAACCTGGAAGGGCTTAGGACC
 AAATGTGCTACCTCCAACGACCTCACACAAAAGAAATCCGGACCCTGGAGAGCAAGCTG
 GTGAAGTACTTCAGCCGGCAGCTGTCTGCAAAAAGAAGGTAGCCTTGCAAGGAGCGCAAC
 GCGGAGCTGGACGGCTTCCCCAGCTACGGCACTGTTCCGAATCGTCGATGTGCGCAAG
 GAGGTCCTGGAGGAAATCTCCCCGGCCAGCTGAGCCTGGAGGACCTCTTGAGATGACG
 GATGAACAGGTGTGCGAGACTGTGGAGAAATACGGAGCCAACCGGGAGGAGTGTGCCCGC
 CTAACCGCTCCCTCTCCTGCCTCAGGAATGTCCACATGTCAGGAGGCAACCTTTCCAAA
 CAAGACTGGACCATCCAGTGGCCACCACAGAGACGGGAAGGAGAACAATCCCCGTGTG
 CCCCCGGAGCCCACCCGTGGATCCGCACCCATCTCTCCAGAGCCCCAGGGTCCCGTCC
 AAGTGCCTCCAGCACTATTGTACACACCAGCCCCACTCCCGGGGCCCTGTGTACACCCAC
 GTGGACAGGCTTACCGTGGACGCCTACCCGGGCTTGTGCCCGCCCCGCCACTGGAGTCG
 GGCACCGTTCCCTGCCCCATCGCCCCGCGAGCGGCACGCGGTCCGCACCCCGCCGCGC
 ACCCCCAACATCGTCACCACCGTACCCCGCCGGGCACGCGCCCATGAGGAAGAAGAAC
 AAGCTGAAGCCCCGGGGACCCACCGCCTCTCCGAAAACCTGATACACTTGATCCCG
 GGATTCACCGCGCTGCATCGGAGCAAATCCCACGAGTTCAGCTGGGGCACCGCTGGAC
 GAGGCCACACGCCCAAAGCCAAGAAGAAGAGCAAACCCCTGAACCTCAAGATCCACAGC
 AGCGTAGGCAGCTGCGAGAACATCCCCTCTCAGCAGCGCTCCCGCTGTGTCCGAGCGC
 TCCCTCCGCTCCTTCTTTGTGGACACGCACCTTCTCCTGCCTTCCACCCCTCCTGTTAC
 ACTGAGGCCAACTTCTCTGCAAACACACTGTCACTGCCACGCTGGTCCCCGAGATCCCT
 CGCAGAGATCTTGGCACTCCATCAAGCACAGGTTTTCCACCAAGTACTGGATGTCTCAG
 ACGTGCACAGTCTGTGGAAAGGGATGCTTTTTGGCCTCAAGTGTAAAACTGCAAGTTA
 AAGTGCCACAACAAATGCACAAAGAAGCCCCACCTGTATCTTCTGATCATCCACCGCA
 GGAGATCCAGCAAAGTTAGTCCGGACAGAGTCCGTTCCGTGTGACATCAACAACCTCTA
 CGGAAGCCACCTCGTATTACAGCCTGCACATCAGTCAGACGCTCCCAAAACCAACAAA
 ATCAACAAGGACCACATCCCTGTCCCTTACCAGCCAGACTCCAGCAGCAACCCCTCCTCC
 ACGACGTCTCCACGCCCTCCTCGCCAGCACCCCCCTCCTCCTAGTCCACGCGCGCT
 TCTCCCTACACCCTTCCCCACAGTGCACACGGCAGCAGAAGAACTTCAACCTGCCAGCA
 TCCCACTACTACAAATACAAGCAGCAGTTCATCTTCCAGATGTGGTGGCGGTGCCGGAG
 ACGCCGACCCGGGCGCCAGGTATCCTGCATCCGGTGACCTCGAATCCAATCTTGAA
 GGAATCCATTACTTCAAATTGAAGTGGAGCCAACGTCCGAGAATGAAGAGGTCCATGAT
 GAGGCCGAAGAGTCAGAGGATGACTTCGAGGAGATGAACCTGTCCCTCCTCTCGGCCCG
 AGTTCACACGCAAGGCCAGCCAGACCAGCATCTTCTTTCAGGAGTGGGACATCCCTTT
 GAGCAGCTGGAGATCGGCGAGCTCATTGGAAAGGGCCGCTTTGGGCAAGTGTACCACGGC
 CGCTGGCATGGCGAGGTGGCCATCCGGCTGATTGACATTGAGAGGGACAACGAGGACCAG
 CTCAAGGCCTTCAAGCGGGAGGTGATGGCCTACAGGCAGACGGCATGAGAACGTGGTG
 CTTTTCATGGGTGCCTGCATGAGCCCGCCTCACCTGGCCATCATACCAGCCTCTGTAAG
 GGACGGACGCTCTATTCGGTTGTGAGGGATGCCAAAATCGTTTTGGATGTCAACAAAAC
 AGGCAGATTGCTCAAGAAATTGTGAAGGGCATGGGTACCTCCACGCCAAGGGAATCCTA
 CACAAGGACCTCAAGTCAAGAACGTCTTCTATGACAACGGCAAAGTGGTCATCACGGAC
 TTTGGACTCTTACGATTTCTGGGGTGTGACGGCTGGCAGGCGGGAGGACAAAATGCGC
 ATCCAGAATGGCTGGCTATGCCACCTGGCACAGAGATCATCCGCCAGCTGTCCCCGAC
 ACAGAGGAGGATAAGCTCCCCTTCTCCAAGCACTCTGACGTCTTTGCCCTTGGCACAATC
 TGGTATGAACTCCACGCCAGGGAATGGCCTTTCAAGACCAACCAGCAGAGGCAATAATC
 TGGCAATGGGCACAGGCATGAAACCAACCTCAGCCAGATTGGCATGGGAAAAGAAATC
 TCGGACATTTCTCTTCTGCTGGGCCTTTGAACAAGAAGAGAGACCTACCTTACCAAG
 CTCATGGACATGTGGAGAACTGCCAAAGCGAAACCGTCGCTGTCTCACCTGGACAT
 TTCTGGAAGTCTGCAGAGCTGTGAGTTTTGTCAAGGGC

Restriction Sites:

Please inquire

ACCN:

NM_173598

Insert Size:	2800 bp
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).
OTI Annotation:	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.
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:	<ol style="list-style-type: none">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_173598.4 , NP_775869.3
RefSeq Size:	17008 bp
RefSeq ORF:	2766 bp
Locus ID:	283455
UniProt ID:	Q6VAB6
Cytogenetics:	12q24.22-q24.23
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	Location-regulated scaffold connecting MEK to RAF. Has very low protein kinase activity and can phosphorylate MAP2K1 at several Ser and Thr residues with very low efficiency (in vitro). Interaction with BRAF enhances KSR2-mediated phosphorylation of MAP2K1 (in vitro). Blocks MAP3K8 kinase activity and MAP3K8-mediated signaling. Acts as a negative regulator of MAP3K3-mediated activation of ERK, JNK and NF-kappa-B pathways, inhibiting MAP3K3-mediated interleukin-8 production.[UniProtKB/Swiss-Prot Function]