

## Product datasheet for **MC214619**

### **Ksr2 (NM\_001034873) Mouse Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ksr2 (NM_001034873) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ksr2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC214619 representing NM_001034873 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATGAGGAAAACATGACGAAAAGCGAAGAGCAGCAACCTCTGAGTTGCAAAAAGCCTTGCAGCAGT  
GCGAGTTGGTTCAGAACATGATCGACCTGAGCATCTCCAATCTGGAAGGGCTTAGGACCAAGTGTGCAGC  
TTCCAACGACCTCAGCAGAAGGAGATCAGGACCCTGGAGAGCAAGCTGGTGAAGTACTCAGCCGACAG  
CTGTCTGCAAGAAGAAGTGGCTCTGCAGGAACGCAATGCTGAACTGGACGGCTTCCCCAGCTCCGCC  
ACTGGTCCGGATCGTGGATGTCCGAAAGGAAGTCTGGAGGAGATCTCCCTGACCAGCTGAGCTTGGAA  
GGACCTCTGGAGATGACCGACGAGCAGGTGTGTGAGACCGTGGAGAAGTATGGAGCCAACCAGGAAGAG  
TGCGCCCCGGCTCAACGCCTCACTCTCTGCCTCAGGAATGTGCACAAATCAGGAGGGAATCTCTCCAAAC  
AAGATTGGATCATCCAGTGGCCACCACGGAGCCAGGGCAGGAGAGCAACCCTGTGTGCCCCCGGAGCC  
CAGCCCCGTGGATCCGAACCCACCTCTCCAGAGCCCCAGGGTCCAGACCAAGTGTCCCCAGCACTTCTGT  
CCTACCAGCCCTACGCCTGGGACCCCTGTGTACACCCAAGTGGACAGACTCACTGTAGATGCCTACCCGA  
ACTTGTGCCCGCCGCCGCCACCCCTGGAATCAGGCCACCGCTCTGTGCCCGCTCTCCCCGCGAGCGGCA  
CGTAGTCCGACCCACCTCGCACCCCAAATATTGTACCACCGTGACCCACCTGGCACGCCACCCATG  
AGGAGAAAAACAAGCTGAAGCCTCCCGGGACGCCACCCCTCTCTCGGAAGCTCATCCATCTGATCC  
CTGGCTTACAGCGCTGCACAGGAGCAAATCCCACGAGTTCAGCTCGGGAACCGTGTAGACGAGGCCAA  
CACACCAAGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001034873
Insert Size:	993 bp



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<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001034873.2</a></u> , <u><a href="#">NP_001030045.1</a></u>
<b>RefSeq Size:</b>	2283 bp
<b>RefSeq ORF:</b>	993 bp
<b>Locus ID:</b>	333050
<b>Cytogenetics:</b>	5 F
<b>Gene Summary:</b>	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 (By similarity).[UniProtKB/Swiss-Prot Function]