

Product datasheet for **RR200333**

Cnksr2 (NM_021686) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cnksr2 (NM_021686) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cnksr2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>RR200333 representing NM_021686
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCTCTGATAATGGAACCACTGAGCAAAATGGTCTCCGAGTCAAGTAGTGGACTGGATGAAAGGTCTCG
ATGACTGCTTACAGCAGTATATTAAGAACCTTGAGAGGGAGAAGATCAGTGGAGACCAGCTGCTACGCAT
TACACATCAGGAGCTAGAAGATCTGGGAGTCAGCCGATTGGCCATCAGGAGCTGATCTTGAGGAGCAGTC
GACCTTCTGTGTGCACTGAATTATGGCTTAGAAAACAGAAAATCTAAAAACCCCTTCTCACAAAGTTGAATG
CGTCTGCCAAAAATCTACAGAACTTCATAACAGGAAGGAGGAGGAGCGGCCATTATGATGGGAGGACCAG
CCGAAAATTACCAAAATGACTTTTTGACCTCAGTTGTGGATCTGATTGGAGCAGCCAAGAGTCTTCTTGCT
TGGTTGGACAGGTCACCATTTGCTGCTGTGACAGACTATTCAGTCACAAGAAATAATGCATACAACCTCT
GCTTGGAGTTAAACAATTGTGCAACAGGATTGCACTGTCTATGAAACTGAAAAATAAATCTTTCATGT
GTGTAAACTCTTCTGGGGTCTGTGACCACATCATATCCCTGTGTCAGATCCTCTGGTTTCACAGTCT
GCTCACCTTGAAGTGATTGAGCTGGCAAATATCAAACCAAGTGAAGGGCTGGGTATGTATATTAATCCCA
CATATGATGGCCTCCATGTAATTACGGGAACCACAGAAAATTCACCTGCAGATCCGGTGAAGAAAATCCCA
CGCTGGGGATGAAGTGATTCAAGTCAATCATCAGACTGTGGTGGGGTGGCAGTTGAAAAATTTGGTGAAT
GCACTACGAGAGGACCCGAGTGGTGTATCTTAACTTTGAAAAAGCGACCTCAGAGCATGCTTACCTCAG
CACCAGCTTTACTGAAAAATATGAGATGGAAGCCCTTGTCTGCAGCCTCTTATACCTAGAAGTCCCAC
AAGCAGCGTTGCCACGCCTTCCAGCACCATCAGTACACCCACCAAAGAGACAGTTCTGCTCTCCAGGAT
CTCTACATCCCCCTCCTCCTGCAGAACCATACATCCAGGGACGAAAAAGGAAACCTTCTTGTGAAG
ATCTCAGAGGACATATGGTGGCAAGCCAGTTCATAAGGGATCTGAATCCCCCAATTCATTTCTGGACCA
GGAATATCGAAAAGAGTTTAACATTGTTGAAGAAGACACTGTCTTATATTGCTATGAATATGAAAAAGGA
CGATCAAGTAGTCAAGGAAGACGAGAAAGCACACCAACCTATGGCAAGCTACGACCTATATCTATGCCAG
TCGAATATAATTGGGTGGGGACTATGAAGATCCAAATAAGATGAAGAGAGATAGTAGAAGAGAAAACTC
TCTACTTCGATACATGAGCAATGAAAAATTTGCTCAAGAAGAATACATGTTTCAGAGAAACAGCAAAAAAG
GACACAGGGAAGAAGTCAAAAAAGAAGGGTGATAAGAGTACTAGCCCACTCACTACTCCTTGTGCCTA
GTTTGCAAATGGATGCATTGAGACAAGACATCATGGGCACACCAGTGCCAGAAACCACACTGTACCATAC
ATTTCAGCAGTCTCTCTGCAGCAGAAAATCAAAGAAGAAAAACAAAGGAGCTATAGCAGGCAAGAGCAAA
AGAAGAATTTCTTGAAGGATCTTGCCCGTGGTACTGTGAAGGATGGCTTTGAAAAAGAAAGATGCAA
AGAGCTATTTTTCACAGAAATGGAAGAAGTACTGGTTTGTCTAAAGGATGCATCCTTGTACTGGTATAT
TAATGAAGAGGATGAAAAAGCAGAGGGATTTCATCAGTCTGCCTGAATTTAAAATCGATAGAGCCAGTGAA
TGCCGCAAGAAATATGCATTCAAGGCCTGCCATCCTAAAATCAAAGCTTTTATTTTCGCTGCTGAGCATC
TCGATGACATGAACAGGTGGCTTAATAGAATTAACATGCTGACTGCAGGATATGCCGAAAGAGAGAGGAT
TAAACAAGAACAAGATTACTGGAGTGAGAGTGACAAAGAAGAAGCAGATACTCCATCAACACCAAAAAACA
GACAGCCCTCCACCCCATATGACACATACCCACGGCCTCCCTCTATGAGTTGTGCCAGTCCCTATGTGG
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GGAAGTTACTGGGAGCAGTGTGTGTCCCCATTTCGAAGACAGCCAGTACGCGCCGCTCCTGGCAGGAT
TTAATCGAGACGCCACTGACAAGTTCAGGCTTACACTATCTTCAGACTCTGCCTCTGGAAGATTCTGTCT
TCTCTGACTCGGCAGCCATCTCCCTGAGCACAGGCGGAGTCCACTCTTCCAACCTCAGAAGTGCCACCT
CCAGGATCATTATGGCCATACCTTTAGCTGAGAGCGAGAGGATGCAAGTGTTGAATGGCAATGGGGGC
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CCTGCGATCCACAAGATGACATACAGCCACCAGAGGTGGAGGAAGAAGAGGAGGAGGAGGAAGAGGAGGC
AGCAGGAGAAAACATAGGCGAGAAAAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR200333 representing NM_021686
Red=Cloning site Green=Tags(s)

MALIMEPVSKWSPSQVVDWMKGLDDCLQQYIKNFEREKISGDQLLRITHQELEDLGVSRIGHQELILEAV
DLLCALNYGLETENLKTLSHKLNASAKNLQNFITGRRRSGHYDGRTSRKLPNDFLTSVVDLIGAAKSLLA
WLDSPFAAVTDYSVTRNNVIQLCLELTTIVQQDCTVYETENKILHVCKTLSGVCDHIISLSSDPLVSQS
AHLEVIQLANIKPSEGLGMYIKSTYDGLHVITGTTENSPADRCKKIHAGDEVIQVNHQTVVVGWQLKNLVN
ALREDPSGVILTLLKRPQSM L TSAPALLKNMRWKPLALQPLIPRSPTSSVATPSSTISTPTKRDSSALQD
LYIPPPPAEPIPRDEKGNLPCEDLRGHMVGKPVHKGSESPNSFLDQEYRKRFNIVEEDTVLYCYEYK
RSSHQGRRESTPTYGKLRPISMPVEYNWVGDYEDPNKMKRDSRRENSLLRYMSNEKIAQEEYMFQRNSK
DTGKSKKKGDKSTSPHYSLLPSLQMDALRQDIMGTPVPETTLYHTFQQSSLQHKSKKNKGAIAKSK
RRISCKDLGRGDCEGWLWKKKDAKSYFSQKWKYWFVLKDALYWYINEEDEKAEGFISLPEFKIDRASE
CRKKYAFKACHPKIKSFYFAAHLDDMNRLNRINMLTAGYAERERIKQEQDYWSESDKEEADTPSTPKQ
DSPPPPYDTPRPPSMSCASPYVEAKHSRLSSTETSQSQSSHEEFRQEVGTSSAVSPIRK TASQRRSWQD
LIETPLTSSGLHYLQTLPLEDSVFSASAISPEHRRQSTLPTQKCHLQDHYGPYPLAESERMQVLNNGG
KPRSFTLPRDSGFNHCLNAPVSACDPQDDIQPPEVEEEEEEEEEEAAGENIGEK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

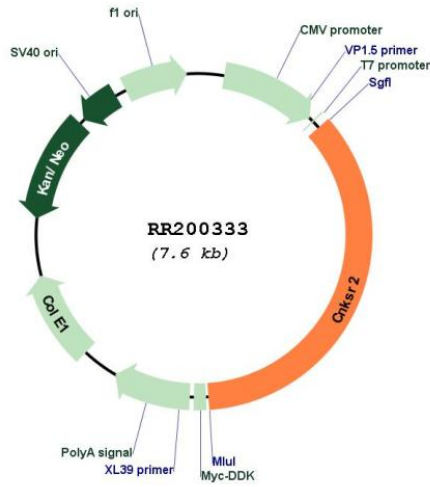
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_021686
ORF Size:	2688 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:	<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_021686.3 , NP_067718.1
RefSeq Size:	4454 bp
RefSeq ORF:	2691 bp
Locus ID:	59322
UniProt ID:	Q9Z1T4
Cytogenetics:	Xq21
MW:	101.7 kDa
Gene Summary:	membrane-associated guanylate kinase-interacting protein; may bind the postsynaptic density (PSD)-95 complex and synaptic scaffolding molecules [RGD, Feb 2006]