

Product datasheet for **RG215829**

CNKSR2 (NM_014927) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CNKSR2 (NM_014927) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CNKSR2
Synonyms:	CNK2; KSR2; MAGUIN; MRXSHG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215829 representing NM_014927 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCTGATAATGGAACCGGTGAGCAAATGGTCTCCGAGTCAAGTAGTGGACTGGATGAAAGTCTTG
ATGACTGTTTGCAGCAGTATATTAAGAAGTTGAGAGGGAGAAGATCAGTGGGGACCAGCTGCTGCGCAT
TACACATCAGGAGCTAGAAGATCTGGGGTCCAGCCGATTGGCCATCAGGAAGTATCTTGAAGCAGTT
GACCTTCTGTGTGATTGAATTATGGCTTGGAAACAGAAAATCTAAAAACCTTTCTCACAAGTTGAATG
CATCTGCCAAAAATCTGCAGAATTTTAAACAGGAAGGAGAAGGAGTGGCCATTATGATGGGAGGACCAG
CCGAAAATTGCCAACGACTTTCTGACCTCAGTTGTGGATCTGATTGGAGCAGCCAAGAGTCTGCTTGC
TGGTTGGACAGGTCACCATTTGCTGTGACAGACTATTCAGTTACAAGAAATAATGTCATACAACCTCT
GCCTGGAGTTAACAACAATTGTGCAACAGGATTGTACTGTATATGAAACAGAGAATAAAATCTTACAGT
GTGTAACACTCTTCTGGAGTCTGTGACCACATCATATCCCTGTCGTCAGATCCTCTGGTTTCACAGTCT
GCTCACCTGGAAGTATTCAACTGGCAACATTAACCAAGCGAAGGGCTGGGTATGTATATTAATCTA
CATATGATGGCCTCCATGTAATTACTGGAACCACAGAAAATTCACCTGCAGATCGGTGCAAGAAAATCCA
TGCTGGCGATGAAGTATTCAAGTTAATCATCAGACTGTGGTGGGTGGCAGTTGAAAAATTTGGTGAAT
GCACTACGAGAGGACCCGAGTGGTGTATCTTAACTTTGAAAAAGCGACCTCAGAGCATGCTTACCTCAG
CACCAGCTTTACTGAAAAATATGAGATGGAAGCCCTTGCTCTGCAGCCTCTTATACCTAGAAGTCCCAC
AAGCAGCGTTGCCACGCCTTCCAGCACCATCAGTACACCCACAAAAGAGACAGTTCTGCCTCCAGGAT
CTCTACATTCCCCTCCTCCTGCAGAACCATATATCCCAGGGATGAAAAAGGAAACCTTCTTGTGAAG
ACCTCAGAGGACATATGGTGGGCAAGCCAGTGCATAAGGGATCTGAATCACCAAATTCATTTCTGGATCA
GGAATATCGAAAGAGATTTAATATTGTCGAAGAAGATACTGTCTTATATTGCTATGAATATGAAAAAGGA
AGATCAAGTAGTCAAGGAAGACGAGAAAGCACCCCACTTATGGCAAGCTACGACCTATATCTATGCCAG
TGAATATAATTGGTGGGGACTATGAAGATCCAAATAAGATGAAGAGAGATAGTAGAAGAGAAAACCT
TCTACTCGGTATATGAGCAATGAAAAGATTGCTCAAGAAGAATACATGTTTCAGAGAAACGACAAAAG



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GACACAGGGAAGAAGTCAAAAAAGAAGGGTGATAAGAGTAATAGCCCACTCACTATTCATTGCTACCTA
 GTTTACAAATGGATGCACTGAGACAAGACATCATGGGCACTCCTGTGCCAGAGACCACACTATACCATAC
 ATTTACAGCAGTCTCACTGCAGCACAAATCAAAGAAGAAAAACAAAGGTCTATAGCAGGCAAGAGCAAA
 AGACGAATTTCTTGCAAAGATCTTGCCGTGGTGACTGTGAGGGCTGGCTTTGAAAAAGAAAGATGCGA
 AGAGTTACTTTTCACAGAAATGGAAAAATATTGGTTTGTCTAAAGGATGCATCCCTTTATTGGTATAT
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 TTGATGATATGAACAGGTGGCTTAACAGAATTAATATGCTGACTGCAGGATATGCAGAAAGAGAGAGGAT
 TAAGCAGGAACAAGATTACTGGAGTGAGAGTGACAAGGAAGAAGCAGATACTCCATCAACACAAAAACAA
 GATAGCCCTCCACCCCATATGATACATACCCACGACCTCCCTCGATGAGTTGCGCCAGTCTTATGTGG
 AAGCAAAACATAGCCGACTTTCTCCACGGAGACTTCTCAGTCTCAGTCTTCTCATGAGGAGTTTCGCCA
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 TTAATTGAGACGCCACTGACAAGTTCAGGCTTACTACTATCTTTCAGACTCTGCCCTGGAGGATTCTGTCT
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 GCAGGATCACTATGGGCCATACCCCTTAGCTGAGAGTGAGAGGATGCAAGTGCTAAATGGAAATGGGGC
 AAGCCTCGAAGTTTTACTCTGCCTCGAGATAGCGGGTTCAACCATTGCTGTCTGAATGCTCCAGTTAGTG
 CCTGTGACCCACAGGATGACGTGAACCCCCAGAGGTGGAGGAAGAGGAGGAGGAGGAGGAGGAGGAAGG
 GGAGGCAGCAGGGGAAAACATAGGAGAAAAAGTAAAAGCAGAGAAGAAAAGTTAGGAGACTCATTGCAA
 GATTTATACAGGGCACTGGAGCAGGCCAGTCTGTCAACACTAGGAGAATCGTATTTCAACCAAGATGG
 AATACAAGCTATCATTTATAAAAAGATGTAATGATCCTGTAATGAATGAAAACTACACCGGCTGAGAA
 TCTCAAAGCACTTTAAAGGCCAGAGAAGGGGAAGTAGCCATTATCGATAAAGTCTAGACAATCCAGAC
 TTGACATCTAAAGAATTTCAACAATGGAAGCAGATGTACCTCGACCTTTTCTTGGATATCTGTCAAATA
 CCACCTCAAATGACCCACTGAGATTTCTTCTGAAGTAGATGTAATCACTTCTCTCTAGCACACACTCA
 TTCATACATTGAAACGCATGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG215829 representing NM_014927
 Red=Cloning site Green=Tags(s)

MALIMEPVSKWSPSQVVDWMKGLDDCLQQYIKNFEREKISGDQLLRITHQELEDLGVSRIGHQELILEAV
 DLLCALNYGLETENLKTLSHKLNASAKNLQNFITGRRRSGHYDGRTRKLPNDFLTSVVDLIGAAKSLLA
 WLDRSPFAAVTDYSVTRNNVIQLCLELTTIVQQDCTVYETENKILHVCKTSGVCDHIISLSSDPLVSQS
 AHLEVIQLANIKPSEGLGMYIKSTYDGLHVITGTTENSPADRCKKIHAGDEVIQVNHQTVVWQLKNLVN
 ALREDPSGVILTLKKRPQSM L TSAPALLKNMRWKPLALQPLIPRSPTSSVATPSSTISTPTKRDSSALQD
 LYIPPPPAEPIPRDEKGNLPCEDLRGHMVGKPVHKGSESPNSFLDQEYRKRFNIVEEDTVLYCYEYKGG
 RSSSQRRRESTPTYGKLRPISMPVEYNWVGDYEDPNMKMRDSRRENSLLRYMSNEKIAQEEYMFQRNSKK
 DTGKSKKKKGDKSNPHTHYSLLPSLQMDALRQDIMGTPVPETTL YHTFQQSSLQHKSKKKNKGP IAGKSK
 RRI SCKDLGRGDCEGWLWKKKDAKSYFSQKWKYWFVLDASLYWYINEEDEKAEGFISLPEFKIDRASE
 CRKKYAFKACHPKIKSFYFAAEHLDDMNRLNRINMLTAGYAERERIKQEQDYWSESDEKADTPSTPKQ
 DSPPPPYDTPRPPSMSCASPYVEAKHSRLSSTETSQSQSSHEEFRQEV TGSSAVSPIRK TASQRRSWQD
 LIETPLTSSGLHYLQTLPLEDSVFSASAISPEHRRQSTLPTQKCHLQDHYGPYPLAESERMQVNLNGGG
 KPRSFTLPRDSGFNHCLNAPVSACDPQDDVQPPEVEEEEEEEEEGEAAGENIGEKSESREKLGDSLQ
 DLYRALEQASLSPLGEHRISTKMEYKLSFIKRCNDPVMNEKLHRLRILKSTL KAREGEVAIIDKVLNDNP
 LTSKEFQQWKQMYLDLFLDICQNTTSDNPLSISSEVDVITSSLAHTHSYIETHV

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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_014927.5
RefSeq Size:	5769 bp
RefSeq ORF:	3105 bp
Locus ID:	22866
UniProt ID:	Q8WXI2
Cytogenetics:	Xp22.12
Domains:	PDZ, SAM, PH
Gene Summary:	<p>This gene encodes a multidomain protein that functions as a scaffold protein to mediate the mitogen-activated protein kinase pathways downstream from Ras. This gene product is induced by vitamin D and inhibits apoptosis in certain cancer cells. It may also play a role in ternary complex assembly of synaptic proteins at the postsynaptic membrane and coupling of signal transduction to membrane/cytoskeletal remodeling. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2009]</p>