

Product datasheet for **RG209167**

CNKSR3 (NM_173515) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CNKSR3 (NM_173515) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CNKSR3
Synonyms:	CNK3; CNK3/IPCEF1; MAGI1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG209167 representing NM_173515
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAACCCGTGACCAAGTGGAGCCCCAAACAAGTGGTGGACTGGACTAGAGGGTTGGATGACTGCCTGC
 AACAAATATGTCCACAAGTTTGAACGAGAGAAGATCAACGGCGAGCAGCTGCTGCAGATTTCCCATCAGGA
 CCTGGAGGAGCTGGGGTACACGGATCGACACCAGGAGCTTGTGTTGGAGGCTGTGGACCTTCTCTGT
 GCACTGAATTATGGCCTCGAAACTGATAACATGAAGAAGTGGTCTGAAACTGAGAGCATCTTCCACACA
 ATTTACAGAATTACATAAGTAGCCGACGAAAAGTCCCGCTTACGATGGCAACACCTCCCGCAAGGCCCC
 CAATGAGTTCCTGACCTCGGTGGTGGAGCTCATCGGCGCCGCAAGGCCCTGCTGGCGTGGCTGGACCGG
 GCTCCGTTTACAGGGATCACTGATTTCTCAGTCACGAAGAACAAAATTATCCAGCTTTGCTTGGACCTGA
 CCACTACAGTCCAGAAGGATTGCTTTGTAGCGGAAATGGAGGATAAAGTTTTAACTGTGGTCAAGGTTTT
 AAATGGCATCTGTGACAAAACAATCCGATCTACCACAGATCCTGTGATGAGCCAGTGTGCATGTCTGGAG
 GAAGTTCACTTACCAAACATTAACCTGGGGAAGGCTGGGCATGTACATCAAATCAACCTATGATGGGT
 TACACGTGATTACTGGAACCACAGAAAATTCTCCTGCAGACAGATCTCAGAAGATTATGCTGGTACGCA
 AGTCATTCAAGTTAATCAGCAAAGTGTGGTGGGATGGCAGCTGAAAAATCTGGTGAAGAAATGAGAGAG
 AATCCCACCGAGTTGTGTTACTGCTTAAGAAGCGCCCCACCGGGTCTTTCAACTTTACTCCTGCTCCCC
 TGAAAAACCTACGGTGAAGCCACCTCTGTACAGACCTCACCTCCACCCGCGACAACCCAGTCCCTGA
 AAGCACTATGGATACCTCACTGAAGAAGGAGAAGTCAAGCATCCTGGATCTTTATATTCTCCTCCGCT
 GCTGTTCCCTACTCTCCCGGGATGAGAATGGCAGTTTTGTTTATGGAGGGTCCAGTAAGTGCAAAACA
 CATTGCTGGTCTAAGGGTTCAGAGTCCCCGAATTCCTTCTGGACCAGGAAAGCCGAGACGAAGATT
 CACCATTGCAGACTCGGATCAGTTGCCTGGTACTCGGTGGAAACCAACATTCTGCCACAAAAATGAGA
 GAGAAAACACCATCTTATGGCAAGCCACGGCTTTGTCCATGCCTGCTGATGGAACTGGATGGGGATTG
 TGGACCTTTTGCAGACCTCGAGGTCATGGCAGGAAAGGGGAGGATGCCCTTTGCCGGTATTTTCAGTAA
 CGAGCGGATTCTCCGATCATTGAAGAGAGCTCCTCTCCCCATACCGGTTCTCCAGACCCACGACCGAG
 CGGCATCTGGTCCGGGTGCGGACTACATCCGAGGAAGCAGGTGCTACATCAACTCAGATCTCCACAGCA
 GCGCCACGATTCCATTCCAGGAGGAAGGGACAAAAAGAAATCTGGCTCCTCAGTACGAAGTCTCTGTC
 CACAGAACCGTCCCTCCTGGTCACTGGTTTACGCGCCTCAAAGTGTGACTCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG209167 representing NM_173515
 Red=Cloning site Green=Tags(s)

MEPVTKWSPKQVVDWTRGLDDCLQYVHKFEREKINGEQLLQISHQDLEELGVTRIGHQELVLEAVDLLC
 ALNYGLETDNMKNLVLKLRASSHNLQNYISSRRKSPAYDGNTSRKAPNEFLT SVVELIGAAKALLAWLDR
 APFTGITDFSVTKNKIIQLCLDLTTTVQKDCFVAEMEDKVLTVVKVLNGICDKTIRSTTDPVMSQACLE
 EVHLPNIKPGELGMYIKSTYDGLHVITGTTENSPADRSQKIHAGDEVIQVNNQTVVWQLKNLVKLLRE
 NPTGVVLLKKRPTGSFNFTPAPLKNLRWKPPLVQTSPPPATTQSPESTMDTSLKKEKSAILDLYIPPPP
 AVPYSRPDENG SFVYGGSSKCKQPLPGPKGSESPNSFLDQESRRRRFTIADSDQLPGYSVETNIPKMR
 EKTPSYGKPRPLSMPADGNWGMIVDPFARPRGHGRKGEDALCRYFSNERIPPIIESSSPYRFSRPTTE
 RHLVRGADYIRGSRCYINSDLHSSATIPFQEEGTKKSGSSATKSSSTEP SLLVSWFTRLKLLTH

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_173515

ORF Size: 1665 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_173515.2](#), [NP_775786.2](#)

RefSeq Size: 3277 bp

RefSeq ORF: 1668 bp

Locus ID: 154043

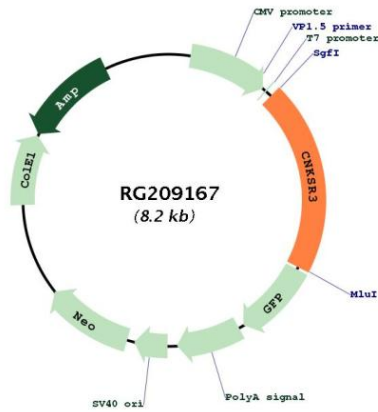
UniProt ID: [Q6P9H4](#)

Cytogenetics: 6q25.2

Protein Families: Druggable Genome

Gene Summary: Involved in transepithelial sodium transport. Regulates aldosterone-induced and epithelial sodium channel (ENaC)-mediated sodium transport through regulation of ENaC cell surface expression. Acts as a scaffold protein coordinating the assembly of an ENaC-regulatory complex (ERC).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG209167