

## Product datasheet for **RG215073**

### CSNK1G3 (NM\_001044722) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CSNK1G3 (NM_001044722) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CSNK1G3
Synonyms:	casein kinase 1, gamma 3; OTTHUMP00000159174; OTTHUMP00000159175
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215073 representing NM_001044722 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAAAATAAAAGAAAGACAAGGACAAATCAGATGATAGAATGGCACGACCTAGTGGTCGATCGGGAC  
ACAACACTCGAGGAAGCTGGTCTTCATCGTCTGGAGTTTTAATGGTTGGACCTAACTTTAGAGTTGGAAA  
AAAAATTGGATGTGGCAATTTGGAGAATTACGATTAGGGAAAAATTTATACACAAATGAATATGTGGCA  
ATTAAGTTGGAGCCCATGAAATCAAGAGCACCACAGCTACATTTGGAATACAGATTCTATAAGCAGTTAG  
GATCTGGAGATGGTATACCTCAAGTTTACTATTTTCGGCCCTTGTGGTAAATACAATGCTATGGTGTGGA  
ACTGCTGGGACCTAGTTTGAAGACTTGTGGTGTGTGACAGAACATTTTCTCTTAAACAGTTCTC  
ATGATAGCTATACTCACTGATTTCTCGCATGGAATATGTCCATTCAAGAAGCTTATATACAGAGATGTA  
AACCTGAGAACTTCTAATAGGACGACCAGGAAACAAAACCCAGCAAGTTATTCACATTATAGATTTTGG  
TTTGGCAAAGGAATATATTGATCCGGAGACAAAGAAACACATACCATACAGAGAACACAAGAGCCTTACA  
GGAACAGCTAGATATATGAGCATAAACACACATTTAGGAAAGAACAAAGTAGAAGAGACGATTTAGAAG  
CTTTAGGTCATATGTTTCATGATTTTCTGAGAGGCAGTCTTCTTGGCAAGGCTTAAAGGCTGACACATT  
AAAGGAGAGGTATCAGAAAATTGGAGATACAAAACGGGCTACACCAATAGAAGTGTATGTGAAAATTTT  
CCAGAAATGGCAACATATCTTCGTTATGTAAGAAGGCTAGATTTTTTTGAAAAACAGACTATGACTACT  
TAAGAAAAGCTTTTTACTGACTTGTGGTATCGAAAAGGATATATGTTTGATTATGAATATGACTGGATTGG  
TAAACAGTTGCCTACTCCAGTGGGTGCAGTTCAGCAAGATCCTGCTCTGTGATCAAAACAGAGAAGCACAT  
CAACACAGAGATAAGATGCAACAAATCCAAAAACAGGTTGTAAGTTCTACAAATGGAGAGTTAAACACAG  
ATGACCCACCGCAGGACGTTCAAATGCACCCATCACAGCCCCTACTGAAGTAGAAGTATGATGGAAC  
CAAGTGTCTGTTTTTTCAAACGAAGGAAAAGGAAAACCATACAGCGCCACAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG215073 representing NM\_001044722  
 Red=Cloning site Green=Tags(s)

MENKKKDKDKSDDRMARPSGRSGHNTRGTGSSSSGVLVMPNFRVGGKIGCGNFGELRLGKNLYTNEYVA  
 IKLEPMKSRAPQLHLEYRFYKQLGSGDGIPOVYVYFGPCGKYNAMVELLLGPSLEDLFDLCDRTFSLKTVL  
 MIAIQLISRMEYVHSKNLIYRDVKPENFLIGRPGNKTQQVIHIIDFGLAKEYIDPETKKHIPPYREHKS  
 LTGTARYMSINTHLGKEQSRDDLEALGHMFMYFLRGLPWQGLKADTLKERYQKIGDTRATPIEVL  
 CENFPEMATYLRVRRLLDFEKPDPDYDLRKLFDLFDKRGYMFDEYDWIGQLPTPVGAVQQDPALSSN  
 REAHQHRDKMQQSKNQVVSSTNGELNTDDPTAGRSNAPITAPTEVEVMDETKCCCFKRRKRKTIQRHK

TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001044722

**ORF Size:** 1245 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\\_001044722.1](#), [NP\\_001038187.1](#)

**RefSeq Size:** 4342 bp

**RefSeq ORF:** 1247 bp

**Locus ID:** 1456

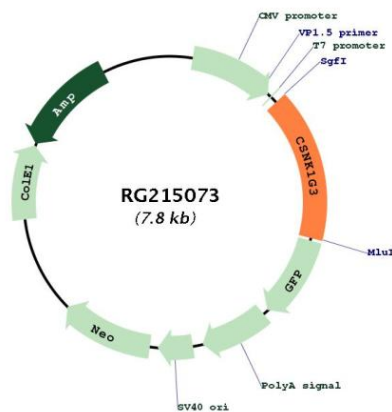
**Cytogenetics:** 5q23.2

**Protein Families:** Druggable Genome, Protein Kinase

**Protein Pathways:** Hedgehog signaling pathway

**Gene Summary:** This gene encodes a member of a family of serine/threonine protein kinases that phosphorylate caseins and other acidic proteins. A related protein in the African clawed frog participates in the transmission of Wnt/beta-catenin signaling. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jul 2012]

### Product images:



Circular map for RG215073