

Product datasheet for **RG208789**

CKII alpha (CSNK2A1) (NM_177560) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CKII alpha (CSNK2A1) (NM_177560) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CKII alpha
Synonyms:	CK2A1; Cka1; Cka2; CKII; OCNDS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208789 representing NM_177560 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGGACCCGTGCCAAGCAGGGCCAGAGTTTACACAGATGTTAATACACACAGACCTCGAGAATACT
GGGATTACGAGTCACATGTGGTGAATGGGAAATCAAGATGACTACCAGCTGGTTCGAAAATTAGGCCG
AGGTAATACAGTGAAGTATTTGAAGCCATCAACATCACAAATAATGAAAAAGTTGTTGTTAAAATTCTC
AAGCCAGTAAAAAGAAGAAAATAAGCGTGAAATAAAGATTTGGAGAATTTGAGAGGAGGTCCCAACA
TCATCACACTGGCAGACATTGTAAGACCCCTGTGTACGAACCCCGCCTTGGTTTTTGAACACGTAAA
CAACACAGACTTCAAGCAATTGTACCAGACGTTAACAGACTATGATATTGATTTTACATGTATGAGATT
CTGAAGGCCCTGGATTATTGTCACAGCATGGGAATTATGCACAGAGATGTCAAGCCCATAATGTCATGA
TTGATCATGAGCAGAAAGCTACGACTAATAGACTGGGGTTGGCTGAGTTTTATCATCTGGCCAAGA
ATATAATGTCGAGTTGCTTCCCGATACTTCAAAGTCTGAGCTACTTGTAGACTATCAGATGTACGAT
TATAGTTTGGATATGTGGAGTTTGGTTGTATGCTGGCAAGTATGATCTTTCGGAAGGAGCCATTTTCC
ATGGACATGACAATTATGATCAGTTGGTGGAGTAGCCAAGTTCTGGGGACAGAAGATTTATATGACTA
TATTGACAAATACAACATTGAATTAGATCCACGTTTCAATGATATCTTGGCAGACACTCGAAAGCGA
TGGGAACGCTTTGTCCACAGTGAAAATCAGCACCTTGTACGCCCTGAGGCCTTGGATTTCTGGACAAAC
TGCTGCGATATGACCACAGTCACGGCTTACTGCAAGAGAGGCAATGGAGCACCCCTATTTCTACACTGT
TGTGAAGGACCAGGCTCGAATGGTTTCATCTAGCATGCCAGGGGCAGTACGCCCGTCAGCAGCGCAAT
ATGATGTCAGGGATTTCTTCAAGTCCAACCCCTTCAACCCCTTGGACCTCTGGCAGGCTCACCAGTGATTG
CTGCTGCCAACCCCTTGGGATGCCTGTCCAGCTGCCGCTGGCCTCAGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG208789 representing NM_177560
Red=Cloning site Green=Tags(s)

MSGPVPSRARVYTDVNTHRPREYWDYESHVVEWGNQDDYQLVRKLGKGYSEVFEAINITNNEKVVVKIL
 KPVKIKKIKREIKILENLRGGPNIITLADIVKDPVSRTPALVFEHVNNTDFKQLYQTLTDYDIRFYMYEI
 LKALDYCHSMGIMHRDVKPHNVIMIDHEHRKRLRIDWGLAEFYHPGQEQYVNRVVASRYFKGPELLVDYQMYD
 YSLDMWSLGCMLASMIFRKEPFFHGHNDYDQLVRIAKVLGTEDLYDYIDKYNIELDPRFNDILGRHSRKR
 WERFVHSENQHLVSPALDFLDKLLRYDHQSRLTAREAMEHPYFYTVVKDQARMGSSSMPGGSTPVSSAN
 MMSGISSVPTSPPLGPLAGSPVIAAANPLGMPVPAAGAQQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_177560

ORF Size: 1176 bp

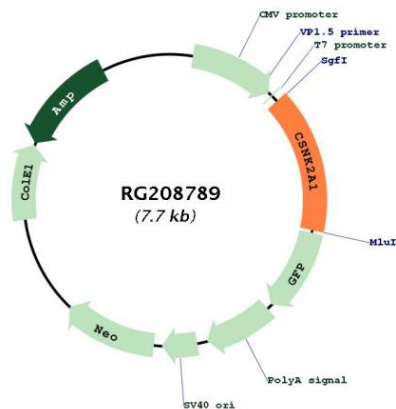
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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.

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_177560.2 , NP_808228.1
RefSeq Size:	2522 bp
RefSeq ORF:	768 bp
Locus ID:	1457
UniProt ID:	P68400
Cytogenetics:	20p13
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase
Protein Pathways:	Adherens junction, Tight junction, Wnt signaling pathway
Gene Summary:	Casein kinase II is a serine/threonine protein kinase that phosphorylates acidic proteins such as casein. It is involved in various cellular processes, including cell cycle control, apoptosis, and circadian rhythm. The kinase exists as a tetramer and is composed of an alpha, an alpha-prime, and two beta subunits. The alpha subunits contain the catalytic activity while the beta subunits undergo autophosphorylation. The protein encoded by this gene represents the alpha subunit. Multiple transcript variants encoding different protein isoforms have been found for this gene. [provided by RefSeq, Apr 2018]

Product images:



Circular map for RG208789