

Product datasheet for **MG204736**

Csnk1a1 (NM_146087) Mouse Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Csnk1a1 (NM_146087) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Csnk1a1 |
| Synonyms: | 2610208K14Rik; 4632404G05Rik; 5430427P18Rik; CK1a; Csnk1a |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >MG204736 representing NM_146087 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGAGCAGCAGCGGCTCCAAGGCCGAATTTATCGTCGGTGGAAAATACAACTGGTGCGGAAGATCG
GATCTGGCTCTTCGGGGACATTTATCTAGCGATCAACATACCAATGGCGAGGAAGTGGCAGTGAACT
AGAATCCCAGAAGGCCAGGCATCCCAGTTGCTGTACGAGAGCAAAGTATAAGATTCTCAAGGTGGG
GTTGGCATCCCTCACATACGGTGGTATGGCAAGAAAAAGACTATAATGTACTAGTCATGGATCTCCTGG
GACCCAGCCTTGAAGACCTCTTCAACTTCTGTTCAAGGAGTTCACTATGAAGACCGTACTTATGTTAGC
TGACCAGATGATCAGTAGAATTGAATATGTGCATACAAAGAATTTATACACAGAGACATTAACCAGAT
AACTTCCTAATGGGTATTGGGCGTCACTGTAATAAGTTATTCCTTATTGATTTTGGTTTGGCCAAAAGT
ACAGAGACAACAGGACAAGGCAACACATACCATACAGAGAAGATAAAAACCTCACTGGCACTGCCGATA
CGCCAGCATCAATGCACATCTTGGTATTGAGCAGAGTCGCCGAGATGACATGGAATCTTTAGGATATGTT
TTGATGTATTTAATAGAACCAGTCTGCCGTGGCAAGGACTGAAGGCTGCAACAAAGAAACAAAATATG
AAAAGATTAGTAAAAGAAGATGCCACTCCTGTTGAGGTGTTGTGAAGGGTTTCTGCAGAATTTGC
CATGTACTTAAATTAAGTCTGCTGGGCTGCGCTTTGAGGAAGCTCCGGATTACATGTATCTGAGGCAGCTA
TTCCGCATCCTTTTCAGGACCTGAACCAACCAATGACTACACATTTGATTGGACGATGTTAAAGCAGA
AAGCAGCCAGCAGGCAGCCTCTCCAGTGGCAGGGTCAGCAGGCCAAACCCACAGGTTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204736 representing NM_146087
 Red=Cloning site Green=Tags(s)

MASSSGSKAEFIVGGKYKLVKRIKIGSGSFGDIYLAINITNGEEVAVKLESQKARHPQLLYESKLYKILQGG
 VGIPHIRWYGQEKDYNVLMDDLGPSLEDLNFNCSRFTMKTVLMADQMISRIEYVHTKNFIHRDIKPD
 NFLMGIGRHCNKLFLIDFGLAKKYRDNRTQHIPYREDKNLTGTARYASINAHLGIEQSRDDMESLGYV
 LMYFNRTSLPWQGLKAATKKQKYEKISEKKMSTPVEVLCKGFPAEFAMYLNYCRGLRFEEAPDYMYLRQL
 FRILFRTLNHQYDYTFDWTMLKQKAAQQAASSSGQGQQAQTPTGF

TRTRPLE - GFP Tag - V

Restriction Sites:

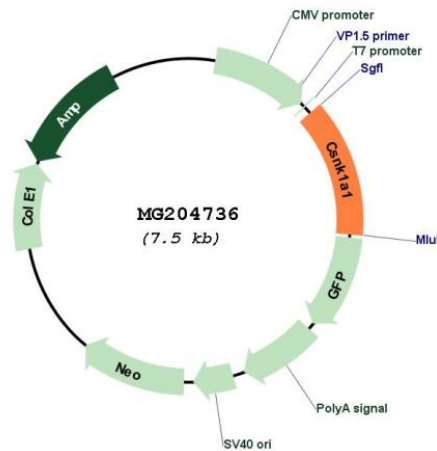
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_146087

ORF Size: 975 bp

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|-------------------------------|---|
| 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_146087.3 |
| RefSeq Size: | 2013 bp |
| RefSeq ORF: | 978 bp |
| Locus ID: | 93687 |
| Cytogenetics: | 18 E1 |
| Gene Summary: | Casein kinases are operationally defined by their preferential utilization of acidic proteins such as caseins as substrates. Can phosphorylate a large number of proteins. Participates in Wnt signaling. Phosphorylates CTNNB1 at 'Ser-45'. May phosphorylate PER1 and PER2. May play a role in segregating chromosomes during mitosis. May play a role in keratin cytoskeleton disassembly and thereby, it may regulate epithelial cell migration (By similarity). [UniProtKB/Swiss-Prot Function] |