

Product datasheet for **SC318899**

Chk1 (CHEK1) (NM_001114121) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chk1 (CHEK1) (NM_001114121) Human Untagged Clone
Tag:	Tag Free
Symbol:	CHEK1
Synonyms:	CHK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC318899 representing NM_001114121.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGCAGTGCCCTTTGTGGAAGACTGGGACTTGGTGCAAACCCTGGGAGAAGGTGCCTATGGAGAAGTT
CAACTTGCTGTGAATAGAGTAACTGAAGAAGCAGTCGCAGTGAAGATTGTAGATATGAAGCGTGCCGTA
GACTGTCCAGAAAATATTAAGAAAAGAGATCTGTATCAATAAAAATGCTAAATCATGAAAATGTAGTAAAA
TTCTATGGTCACAGGAGAGAAGGCAATATCCAATATTTATTTCTGGAGTACTGTAGTGGAGGAGAGCTT
TTTGACAGAATAGAGCCAGACATAGGCATGCCTGAACCAGATGCTCAGAGATTCTCCATCAACTCATG
GCAGGGGTGGTTTATCTGCATGGTATTGGAATAACTCACAGGGATATTAAACCAGAAAATCTTCTGTTG
GATGAAAGGGATAACCTCAAATCTCAGACTTTGGCTTGGCAACAGTATTTTCGGTATAATAATCGTGAG
CGTTTGTGAACAAGATGTGTGGTACTTTACCATATGTTGCTCCAGAACTTCTGAAGAGAAGAGAATTT
CATGCAGAACCAGTTGATGTTTGGTCTGTGGAATAGTACTTACTGCAATGCTCGCTGGAGAATTGCCA
TGGGACCAACCCAGTGACAGCTGTCAGGAGTATTCTGACTGGAAAGAAAAAACAATACCTCAACCCT
TGGAAAAAATCGATTCTGCTCCTCTAGCTCTGCTGCATAAAAATCTTAGTTGAGAATCCATCAGCAAGA
ATTACCATTCCAGACATCAAAAAGATAGATGGTACAACAACCCTCAAGAAAGGGGCAAAAAGGCC
CGAGTCACTTCAGGTGGTGTGCAGAGTCTCCAGTGGATTTTCTAAGCACATTCATCCAATTTGGAC
TTCTCTCCAGTAAACAGTGCTTCTAGTGAAGAAAATGTGAAGTACTCCAGTTCTCAGCCAGAACCCCGC
ACAGGTCTTTCTTATGGGATACCAGCCCTCATACTTGATAAATTGGTACAAGGGATCAGTTTTTCC
CAGCCACATGTCCTGATCATATGCTTTTGAATAGTCAGTTACTTGGCACCCAGGATCCTCACAGAAC
CCCTGGCAGCGGTTGGTCAAAGAATGACACGATTCCTTACCAAATGGATGCAGACAAATCTTATCAA
TGCTGAAAGAGACTTGTGAGAAGTTGGCTATCAATGGAAGAAAAGTTGTATGAATCAGGTTACTATA
TCAACAACCTGATAGGAGAAACAATAAACTATTTCAAAGTGAATTTGTTAGAAAATGGATGATAAAAATA
TTGGTTGACTTCCGGCTTCTAAGGGTGTGGATTGGAGTTCAAGAGACACTTCTGAAGATTAAGGG
AAGCTGATTGATATTGTGAGCAGCCAGAAGATTTGGCTTCTGCCACATGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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- Restriction Sites:** Sgfl-MluI
- Plasmid Map:** □
- ACCN:** NM_001114121
- Insert Size:** 1431 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_001114121.2
RefSeq Size:	2699 bp
RefSeq ORF:	1431 bp
Locus ID:	1111
UniProt ID:	O14757
Cytogenetics:	11q24.2
Protein Families:	Druggable Genome, Protein Kinase, Stem cell - Pluripotency
Protein Pathways:	Cell cycle, p53 signaling pathway
MW:	54.4 kDa
Gene Summary:	<p>The protein encoded by this gene belongs to the Ser/Thr protein kinase family. It is required for checkpoint mediated cell cycle arrest in response to DNA damage or the presence of unreplicated DNA. This protein acts to integrate signals from ATM and ATR, two cell cycle proteins involved in DNA damage responses, that also associate with chromatin in meiotic prophase I. Phosphorylation of CDC25A protein phosphatase by this protein is required for cells to delay cell cycle progression in response to double-strand DNA breaks. Several alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Oct 2011]</p>