

# Recombinant Full Length Human CDK10 Protein, GST-tagged

**Cat. No.** CDK10-3177HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Product Overview</b> | Human CDK10 full-length ORF (NP_003665.2, 1 a.a. - 331 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>ProteinLength</b>    | 331 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | The protein encoded by this gene belongs to the CDK subfamily of the Ser/Thr protein kinase family. The CDK subfamily members are highly similar to the gene products of <i>S. cerevisiae</i> cdc28, and <i>S. pombe</i> cdc2, and are known to be essential for cell cycle progression. This kinase has been shown to play a role in cellular proliferation and its function is limited to cell cycle G2-M phase. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2009] |
| <b>Molecular Mass</b>   | 64 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>AA Sequence</b>      | MGRCRSVKEFEKLNRI GEGTYGIVYRARDTQTDEIVALKKVRMDKEKDGIPISSLREI<br>TLLLRLRHPNIVELKEVVGNHLESIFLVMGYCEQDLASLLENMPTPFSEAQVKCIVL<br>QVLRGLQYLHRNFIIHRDLKVSNLLMTDKGCVKTADFGLARAYGVPVKPMTPKVVTL<br>WYRAPELLLGTTTQTTSIDMWAVGCILAELLAHRPLLPGTSEIHQIDLIVQLLGTPSENI<br>WPGFSKLPLVGQYSLRKQPYNNLKHKFPWLSEAGLRLHFLFMYDPKKRATAGDCL<br>ESSYFKEKPLPCEPELMPTFPHHRNKRAAPATSEGQSKRCKP                                                                                                                                                                            |

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|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay<br>Western Blot (Recombinant protein)<br>Antibody Production<br>Protein Array                                                                                                                                                                                                              |
| <b>Storage</b>          | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                                                       |
| <b>Storage Buffer</b>   | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                                                                                       |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                |
| <b>Gene Name</b>        | CDK10 cyclin-dependent kinase 10 [ Homo sapiens ]                                                                                                                                                                                                                                                                              |
| <b>Official Symbol</b>  | CDK10                                                                                                                                                                                                                                                                                                                          |
| <b>Synonyms</b>         | CDK10; cyclin-dependent kinase 10; cyclin dependent kinase (CDC2 like) 10;<br>PISSLRE; CDC2-related protein kinase; cell division protein kinase 10; cyclin-<br>dependent kinase (CDC2-like) 10; cyclin-dependent kinase related protein;<br>serine/threonine protein kinase PISSLRE; serine/threonine-protein kinase PISSLRE; |
| <b>Gene ID</b>          | 8558                                                                                                                                                                                                                                                                                                                           |
| <b>mRNA Refseq</b>      | NM_001098533                                                                                                                                                                                                                                                                                                                   |
| <b>Protein Refseq</b>   | NP_001092003                                                                                                                                                                                                                                                                                                                   |
| <b>MIM</b>              | 603464                                                                                                                                                                                                                                                                                                                         |
| <b>UniProt ID</b>       | Q15131                                                                                                                                                                                                                                                                                                                         |

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